Human/Machine Interfaces

Catalogue







Human/Machine Interfaces

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- Magelis Advanced Panels
- USB tower lights compatible with HMI terminals

2 - HMI Controllers

- Magelis HMI Controllers
- Magelis XBT GT/GK Advanced Panels with control function
- SoMachine software suite

3 - Industrial PCs

- PC Panels Magelis Smart and Compact iPC
- Magelis Panel PC and BOX PC
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Harmony XVGU Ø 60 USB tower lights	page 1	1/78
Compatibility with Magelis Advanced Panels and		
HMI controllers	page 1	1/79

Operator dialogue terminals Architectures, connection to automation

Architectures, connection to automation systems

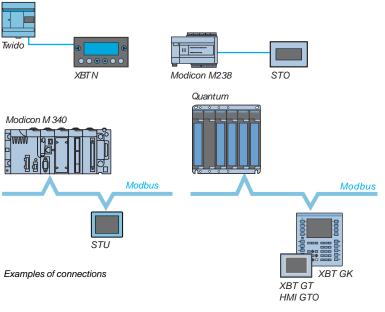
Presentation

Magelis[™] operator dialogue terminals communicate with automation system equipment:

Via serial link

By means of integration into an Ethernet TCP/IP architecture

Communication via serial link



All Magelis terminals feature an integrated RS 232 C or RS 422/485 asynchronous serial link.

Use of the Uni-TE or Modbus protocol makes it easy to set up communication with Schneider Electric PLCs.

Third-party protocols enable connection to PLCs offered by major manufacturers on the market:

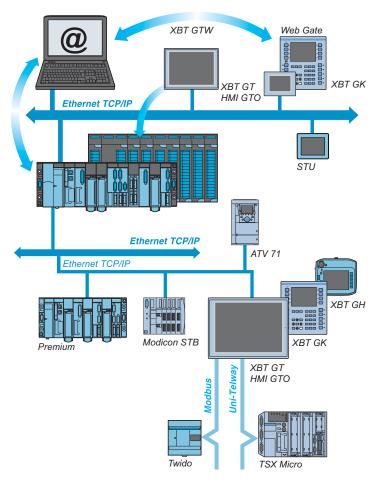
- DF1, DH485 for Allen-Bradley PLCs
- SysmacWay for Omron PLCs
- MPI/PPI for Siemens Simatic S7 PLCs
- Mitsubishi Melsec FX PLC

Operator dialogue terminals Architectures, connection to automation

Architectures, connection to automation systems

Presentation (continued)

Integration into an architecture with Ethernet TCP/IP network



Automation platforms provide transparent routing of Uni-TE or Modbus messages from a TCP/IP network to a Uni-TE or Modbus network and vice versa.

The various services offered for the terminals are:

■ Modbus TCP/IP messaging (for XBT GK, XBT GH, XBT GTW, XBT GT and HMI GTO, access with Ethernet TCP/IP Modbus protocol)

■ Browse function with XBT GTW or standard PC

■ Web Gate function: Diagnostics to remotely control the application

■ FTP server: Transfer of data files with the terminal

■ Data Sharing function: Data exchange on Ethernet between 8 terminals (maximum)

E-mail function

1

Operator dialogue terminals Magelis[™] Small Panels

Applications		Display of graphic pages		
Type of terminal		Small Panels with touch scr	reen	
				Selyonder 🛲
		Schynddir - Sower Star Star Star Star Star Star Star Sta		Magelia STU
Display	Туре	Monochrome STN LCD (200 x 80 pixels), backlit - Green, orange and red, or - White, pink and red	Colour QVGATFT LCD (320 x 240 pixels)	
	Capacity	3.4" (monochrome)	3.5" (colour)	5.7" (colour)
Data entry		Via touch screen		
Memory capacity	Application Expansion	16 MB Flash		
	Expansion	-		
Functions	Maximum number of pages	Limited by internal FLASH EP	ROM memory capacity	
	Variables per page	Unlimited		
	Representation of variables		ph, gauge, curves, buttons, LE	Ds
	Recipes	32 groups of 64 recipes		
	Curves	Yes, with log		
	Alarm logs	Yes		
	Real-time clock	Access to the PLC real-time c	lock	
	Alarm relay	-		
	Buzzer	Yes		
Communication	Asynchronous serial link	RS 232C/RS 485 (1) RS 232C using Zelio protocol		
	Downloadable protocols	Uni-TE, Modbus and for PLC I	brands: Allen-Bradley, Omron,	Mitsubishi, Siemens
	Printer link	USB for serial or parallel printe	er	
	USB ports	1 host type A and 1 device type	e mini-B	
	Networks	1 Ethernet TCP/IP port (10BASE-T/100BASE-TX) (3)	1 Ethernet TCP/IP port (1	0BASE-T/100BASE-TX)
Development softw	are		KP Professional and Windows 7	Business 32-bit and 64-bit)
Operating system		Magelis		
References		HMI STO 5●●	HMI STU 655	HMI STU 855
Page		1/10		
		(1) Only HMI STO 511/512. (2) Only HMI STO 501.		

More technical information on www.schneider-electric.com

Schneider Gelectric

Display of text messages and/or semi-graphic pages	Display of text messages and/or semi-graphic pa Control and configuration of data	iges	
Small Panels with keypad	Small Panels with keypad	Small Panels with touch	screen and keypad
· · · · · · · · · · · · · · · · · · ·	 ○ 小型量示模块 ○ 		
Green backlit monochrome LCD, height 5.5 mm or Green, orange or red backlit monochrome LCD, height 4.34…17.36 mm	Green, orange or red backlit monochrome LCD, height 4.3417.36 mm	Green, orange or red back LCD (198 x 80 pixels), height 4…16 mm	lit monochrome matrix
2 lines of 20 characters or 1 to 4 lines of 5 to 20 characters (monochrome)	1 to 4 lines of 5 to 20 characters (monochrome)	2 to 10 lines of 5 to 33 cha	racters (monochrome)
Via keypad with 8 keys (4 customizable)	Via keypad with ■ 12 function keys or numeric entry (depending on context) ■ 8 service keys	Via keypad with 4 function keys 8 service keys	Via touch screen and keypad with 10 function keys 2 service keys
512 KB Flash		512 KB Flash EPROM	
-			
128/200 application pages 256 alarm pages	128/200 application pages 256 alarm pages	200 application pages 256 alarm pages	
4050	4050, bargraph, buttons, LEDs	50	
Alphanumeric		Alphanumeric, bargraph, I	outtons, LEDs
-			
Yes Yes (5)	Yes		
Access to the PLC real-time clock	Access to the PLC real-time clock		
-		Yes (4)	
RS 232C/RS 485			
Uni-TE, Modbus and for PLC brands: Allen-Bradley, (Omron, Mitsubishi, Siemens		
RS 232C serial link <i>(5)</i>			
-			
Vijeo Designer Lite (on Windows 2000 Professional,	Windows XP Professional and Windows Vista Busines	s 32-bit)	

XBT N ••••	XBT R 🐽	XBT RT 🐽
1/18	1/19	1/22
(4) Only XBT RT511.		

(4) Only XBT R1511.(5) Depending on model.

More technical information on www.schneider-electric.com

Operator dialogue terminals Small Panels with touch screen

Small Panels with touch screen Magelis[™] STO, STU



Magelis STO 3.4" Small Panel



Magelis STU 3.5" Small Panel



Magelis STU 5.7" Small Panel

Presentation

- The Magelis Small Panels offer includes the following touch screen terminals:
- Magelis STO, with 3.4" monochrome screen, available with 2 different types of backlighting:
- □ Green, orange, red
- □ White, pink, red
- Magelis STU, with 3.5" and 5.7" TFT colour screens.

Operation

The features of Magelis STO and STU terminals draw on key technological innovations:

- All Magelis STO and STU models are equipped with:
- □ 2 USB V2.0 ports for data transfer

measuring 22 mm in diameter.

■ Magelis STU and STO 531/532 models feature:

□ 1 RJ45 port, enabling integration of an Ethernet TCP/IP network and the use of the services associated with this (in particular, the Web Gate function)

■ The Magelis STO 501 model features:

□ 1 RS 232C serial link port (9-way removable screw terminal block), enabling direct

No panel cut-out required to install Magelis STU models No panel cut-out is required to install a Magelis STU Small Panel. All you need to do is drill a hole measuring 22 mm in diameter - just as if you were installing a pushbutton. The front module (comprising the screen) is connected to the rear module (comprising the terminals and connectors). The two modules are fixed together via a hole

communication with the Zelio Logic SR2/SR3 range of controllers (see page 1/7)



Exploded view of Magelis STU Small Panel: Simple installation using 22 mm diameter hole

Presentation (continued)

Operator dialogue terminals Small Panels with touch screen

Small Panels with touch screen Magelis[™] STO, STU



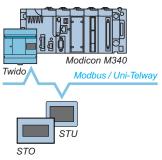
Configuration

Magelis STO/STU terminals can be configured using Vijeo Designer software in a Windows XP Professional or Windows 7 Business (32-bit and 64-bit) environment.

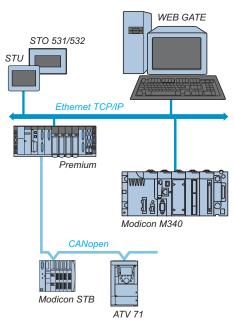
Vijeo Designer software boasts an advanced user interface with many configurable windows, enabling operator dialogue projects to be developed quickly and easily.

See page 4/8.

Display of a video sequence



Example of serial link architecture



Example of Ethernet TCP/IP network architecture

Communication

Magelis STO/STU terminals communicate with PLCs via an integrated serial link, using the following communication protocols:

- Schneider Electric (Uni-TE, Modbus)
- Third-party: Mitsubishi Electric, Omron, Allen-Bradley and Siemens

The Magelis STO 501 terminal is dedicated exclusively to communication with Zelio Logic SR2/SR3 range controllers.

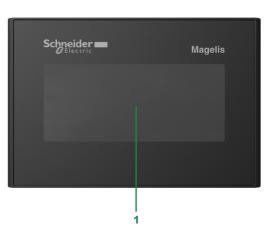
It communicates with these controllers via a direct connection cable SR2 CBL 09 (see page 1/25), using Zelio protocol, which is included in Vijeo Designer V6.1.

Magelis STU and STO 531/532 terminals are connected on Ethernet TCP/IP networks via Modbus TCP or a third-party protocol.

Operator dialogue terminals Small Panels with touch screen Magelis[™] STO 3.4"

1

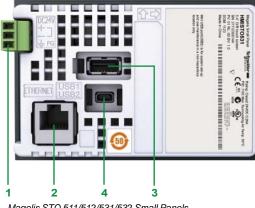
Description Magelis STO 3.4" Small Panels



Front panel

The front panels of Magelis STO Small Panels comprise:

- 1 A touch screen for displaying synoptic views (3.4" backlit monochrome) with:
- Green, orange or red backlighting for STO 511, STO 531 and STO 501 terminals
- □ White orange or red backlighting for STO 512 and STO 532 terminals



Magelis STO 511/512/531/532 Small Panels

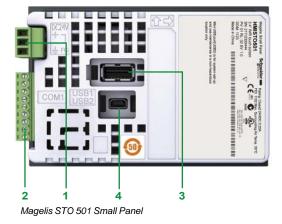
Rear panel

Magelis STO Small Panels have the following on the rear panel:

- 1 A removable screw terminal block for 24 V ---- power supply
- 2 A connector for connecting to PLCs or controllers, depending on the terminal model:
- □ Magelis STO 511/ 512: An RJ45 (COM1) connector for RS 232C or RS 485 serial link
- □ Magelis STO 531/532: An RJ45 (ETHERNET) connector for Ethernet 10BASE-T/ 100BASE-TX link

□ Magelis STO 501: A 9-way removable screw terminal block (COM1) for RS 232C serial link using Zelio protocol

- 3 A USB type A host connector for:
- Connection of a peripheral device
- □ Connection of a USB memory stick
- Application transfer
- 4 A USB mini-B device connector for application transfer



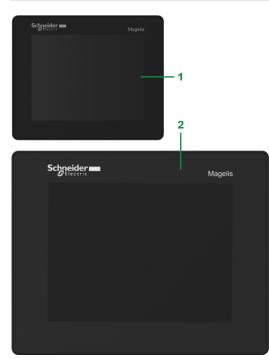
Description (continued)

Operator dialogue terminals Small Panels with touch screen

Small Panels with touch screen Magelis[™] STU 3.5" and STU 5.7"

Description

Magelis STU 3.5" and STU 5.7" Small Panels

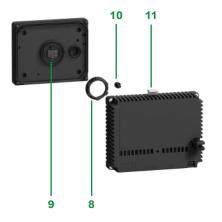


Front module

The front panels of Magelis STU Small Panels comprise, depending on the model:

- 1 Magelis STU 655: A touch screen for displaying synoptic views (3.5" colour TFT)
- 2 Magelis STU 855: A touch screen for displaying synoptic views (5.7" colour TFT)





Presentation: page 1/6

Rear of product

Magelis STU 655 and Magelis STU 855 Small Panels have the following on the rear:

- 3 A removable screw terminal block for 24 V --- power supply
- 4 An RJ45 connector for RS 232C or RS 485 serial link connection to PLCs (COM1)
- 5 A USB type A host connector for:
- Connection of a peripheral device
- Connection of a USB memory stick
- Application transfer
- 6 A USB mini-B device connector for application transfer (on the left-hand side)
- 7 An RJ45 connector for the Ethernet TCP/IP 10BASE-T/100BASE-TX link

Fixing system

A Magelis STU Small Panel is made up of a front module (comprising the screen) and a rear module (comprising the CPU plus terminals and connectors). The two modules are fixed together via a hole measuring 22 mm in diameter. The fixing system contains the following elements:

- 8 An fixing nut
- 9 A seal

10 An anti-rotation tee (can be used as an option)

11 A release mechanism: simply press to separate the two modules once they have been fixed together

References

Operator dialogue terminals Small Panels with touch screen Magelis[™] STO, STU



Magelis STO monochrome touch screen terminals

Magelis STU colour touch screen terminals

Number of ports

1 COM1 (1) 1 ETHERNET (2)

2 USB

Type of screen

3.5" screen

TFT

3.4" screen						
Type of screen	Number of ports	Application memory capacity	Compact Flas memory	h Embedded Ethernet	Reference	Weight kg
STN Green, orange, red	1 COM1 <i>(1)</i> 2 USB	16 MB	No	_	HMI STO 511	1.000
	1 ETHERNET (2) 2 USB	16 MB	No	1	HMI STO 531	1.000
STN White, pink, red	1 COM1 <i>(1)</i> 2 USB	16 MB	No	-	HMI STO 512	1.000
	1 ETHERNET (2) 2 USB	16 MB	No	1	HMI STO 532	1.000
STN Green, orange, red	1 COM1 <i>(1)</i> 2 USB	16 MB	No	-	HMI STO 501	1.000



HMI STU 655



5.7" screen						
TFT	1 COM1 <i>(1)</i> 1 ETHERNET <i>(</i> 2) 2 USB	16 MB	No	1	HMI STU 855	_

Application

memory capacity

16 MB

Compact Flash Embedded

1

Ethernet

memory

No

Reference

HMI STU 655

Weight

kg

1.000

HMI STU 855

Software Configuration software			
Description	Operating system	Reference	Weight
			kg
Vijeo Designer	Windows XP Professional Windows 7 Business (32-bit and 64-bit)	See page 4/13	-

(1) RS 232C or RS 485 serial link. (2) Ethernet 10BASE-T/100BASE-TX link.

(3) RS 232C serial link using Zelio protocol, for direct connection to Zelio Logic SR2/SR3 controllers.

Presentation:	
page 1/6	

Operator dialogue terminals Small Panels with touch screen Magelis[™] STO, STU

Description	Description/function	Compatible with	Reference	Weight kg
Accessories kit	Contains: An anti-rotation tee A USB A type clip A USB mini-B type clip An adaptor panel for mounting on an enclosure of 1 mm in thickness	HMI STU 655 HMI STU 855	HMIZSUKIT	
Protective sheets	5 peel-off sheets for protecting the screen	HMI STO 5●●	HMIZS60	
		HMI STU 655	HMIZS61	-
		HMI STU 855	HMIZS62	
USB clip	Holds the USB A type connection in place	HMI STO 5●●	HMIZSCLP1	-
	Holds the USB mini-B type connection in place	HMI STO 5●●	HMIZSCLP3	-

Replacement parts (2)								
Description	Description/function	Compatible with	Reference	Weight kg				
Nuts	Set of 10 nuts, 22 mm (front module of the HMI STU is fixed to the enclosure using a 22 mm nut (see page 1/6))	HMI STU 655 HMI STU 855	ZB5AZ901	_				
Bezel key	Enables the fixing nut to be tightened	HMI STU 655 HMI STU 855	ZB5AZ905	_				
Seal	Dust and damp proofs the connection between the front and rear modules of the HMI STO 5●●	HMI STO 500	HMIZS50					

(1) Non-exhaustive list: other separate components are listed on pages 1/24 onwards.
(2) Non-exhaustive list: other replacement parts are listed on page 1/24.

		1

Description: page 1/8

Presentation: page 1/6

Presentation

Operator dialogue terminals Magelis[™] XBT N, XBT R Small Panels with

Magelis[™] XBT N, XBT R Small Panels with keypad, Magelis[™] XBT RT Small Panels with touch

screen and keypad

Presentation



XBT N400



XBT RT511

Magelis XBT N and Magelis XBT R/RT terminals are used to display messages and variables. In addition, Magelis terminals XBT RT can display small graphic elements.

The various keys can be used to:

- Modify variables
- Control a device
- Navigate within the operator dialogue application

On XBT RT terminals, the touch screen can also be used to modify variables, control devices and navigate within the dialogue application.

Alarm messages can be printed out from models that have a printer port.

Operation

XBT R411



"Entry" customization

F1 F2 F3 F4



All Magelis terminals have the same user interface:

 A configurable touch screen, on XBT RT only ("touch-sensitive" mode)

■ 2 service keys (◀, ▶) configurable for contextual link or control, on XBT N/R and XBT RT ("entry"/"control" modes)

- 2 service keys (ESC, ENTER), non-configurable
- These keys are complemented by:

□ On XBT N terminals: 4 customizable service keys which can be configured as function keys ("control" mode) or service keys ("entry" mode)

□ On XBT R terminals: 4 service keys, nonconfigurable, and 12 function or numeric entry keys (depending on context)

- □ On XBT RT terminals in "control" or "entry" mode:
- 4 customizable and configurable function keys
- 4 service keys (non-configurable)



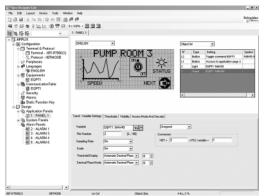
Presentation (continued)

Operator dialogue terminals Magelis[™] XBT N, XBT R Small Panels with

screen and keypad

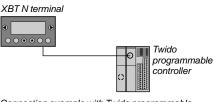
Magelis[™] XBT N, XBT R Small Panels with keypad, Magelis[™] XBT RT Small Panels with touch

Configuration



Vijeo Designer Lite

Communication



Connection example with Twido programmable controller

XBT N terminal



Connection example with Zelio Logic smart relay

Magelis terminals can be configured using Vijeo Designer Lite software in a Windows 2000 Professional, XP Professional or Vista Business (32-bit) environment.

Vijeo Designer Lite software uses the concept of pages: each page can be viewed in its entirety. A 2, 4 or 10-line window, depending on the terminal model to be configured, is used to view the screen of this virtual terminal.

The symbol databases of TwidoSoft, PL7 and Concept applications can be imported into the Vijeo Designer Lite operator dialogue application.

See page 4/4.

XBT N and XBT R/RT terminals communicate with PLCs via an integrated serial link in either point-topoint or multidrop mode, depending on the model.

The communication protocols used are those of Schneider Electric PLCs (Uni-TE, Modbus) and those of the main manufacturers on the market.

XBT N401, XBT R411 and XBT RT 511 terminals communicate with Zelio Logic smart relays via a direct connection cable and using the Zelio protocol, which is included in Vijeo Designer Lite V1.3.

Description:	
page 1/15	

1

Operator dialogue terminals

Magelis[™] XBT N, XBT R Small Panels with keypad, Magelis[™] XBT RT Small Panels with touch screen and keypad

Functions

On their front panel, XBT N/R/RT terminals have function keys and service keys (depending on how the keys have been configured for "control" and "entry" modes). XBT RT terminals feature a touch screen which can be configured in "touchsensitive" operating mode.

"F" function keys

The function keys are defined for the whole application.

- The number of function keys depends on the model:
- F1, F2, F3, F4 on XBT N
- F1...F12 on XBT R
- F1...F10 or F1...F4 according to configuration on XBT RT
- They can have the following functions:
- Accessing a page
- Impulse command
- "Toggle" command

In addition, with the XBT R terminal, if the MOD key is pressed, the 12 function keys become numeric entry keys 1...0, +/- and ..

"R" function keys for XBT RT ("entry" mode)

The R1, R2, R3 and R4 function keys on the XBT RT are defined for the pages displayed. They can be used for:

- Accessing a page
- Memorising memory bits
- Toggling memory bits (ON/OFF)
- Resetting memory bits to 1/0

An icon can be displayed on the screen, above the Ri keys. This icon is defined using the Vijeo Designer Lite software.

Matrix touch screen (5 x 11 cells) for XBT RT

The touch screen can be configured to be active on XBT RT ("touch-sensitive" mode). This is used for:

- Accessing a page
- Memorising/toggling memory bits
- Modifying a numeric field via a virtual numeric keypad

Service keys

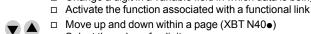
Service keys 4, ESC, DEL, \mathbf{v} , \mathbf{A} , MOD, ENTER and \mathbf{b} are used to modify the parameters of the automation system.

They perform the following actions:

- ESC Cancel an entry, suspend or stop a current action, go up one level in a menu
- DEL Delete the character selected in entry mode
- MOD Select the variable field in which to enter data. Enable entry in the next field, on each press, from left to right and top to bottom.
- ENTER Confirm a selection or entry, acknowledge an alarm

The "arrow" keys are used to:

- □ Change the page within a menu
- □ Display the current alarms
 - □ Change a digit in a variable field in which data is being entered



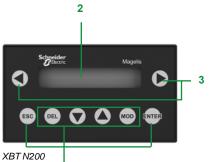
- □ Move up and down within a page (XBT N40●) □ Select the value of a digit
- □ Select a value from a list of choices
- Increment or decrement the value of a variable field

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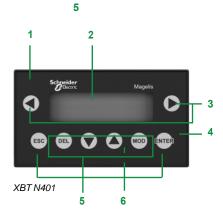
Schneider

Operator dialogue terminals Magelis[™] XBT N Small Panels with keypad

Description of XBT N terminals









XBT N200



XBT N terminals comprise:

On the front panel

- 1 A communication monitoring lamp (model XBT N401)
- A backlit ultra-bright LCD display: 122 x 32 pixels (matrix) or 2 lines of 2 20 characters (alphanumeric)
- Two non-customizable command or contextual link keys 3
- 4 An "alarm" LED (model XBT N401)
- 5 Six service keys, four of which (framed) can be configured as function keys and customized using labels
- 6 Two system LEDs in entry mode or four LEDs that can be controlled by the PLC in control mode (model XBT N401)

Supplied separately

DEL	O	٥	MOD	↔ –	7
F1	F2	F3	F4	↔ –	8
				***	9

- A sheet of labels comprising:
- An "entry" label 7
- 8 A "control" label (F1, F2, F3 and F4)
- 9 Four customizable blank labels
- Two spring clips for fixing the terminal on the panel

On the rear panel

XBT N200/N400 terminals

1 An RJ45 connector for point-to-point serial link and connection for 5 V --- power supply (supplied by PLC)

XBT N401/N410/NU400 terminals

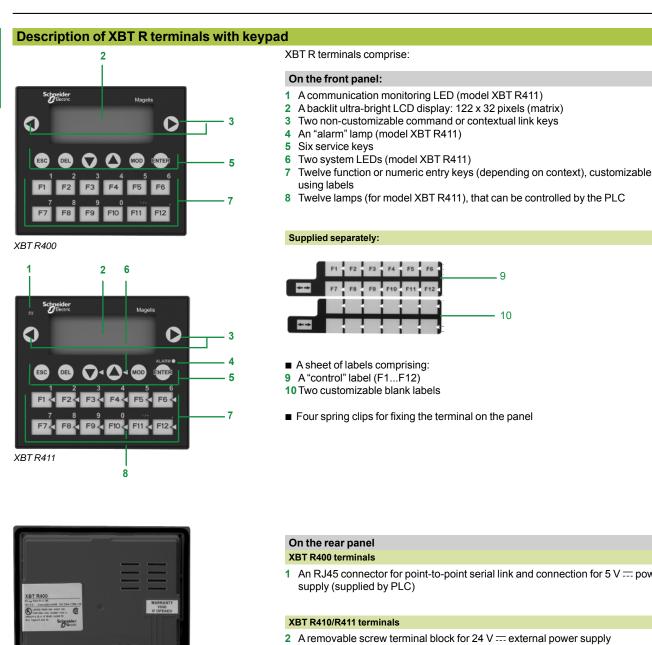
- 2 A removable screw terminal block for 24 V --- external power supply
- 3 A 25-way female SUB-D connector for multidrop serial link
- 4 An 8-way female mini-DIN connector for serial printer link (model XBT N401)

Presentation:	References:
page 1/12	page 1/18

Schneider

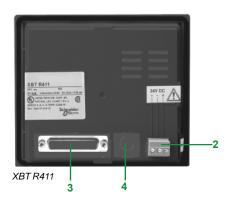
1

Operator dialogue terminals Magelis[™] XBT R Small Panels with keypad





XBT R400



- 1 An RJ45 connector for point-to-point serial link and connection for 5 V --- power
- 3 A 25-way female SUB-D connector for multidrop serial link
- 4 An 8-way female mini-DIN connector for serial printer link (model XBT R411)

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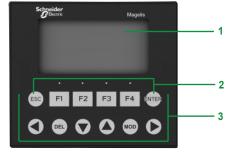
References: page 1/19

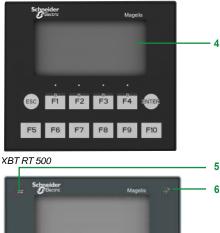
Schneider

Operator dialogue terminals Magelis[™] XBT RT Small Panels with touch

screen and keypad

Description of XBT RT terminals with touch screen and keypad







XBT RT511

F54



XBT RT500



XBT RT511

Presentation: page 1/12

XBT RT terminals comprise:

On the front panel:

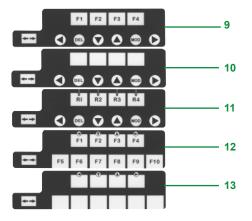
XBT RT terminals

- 1 An ultra-bright backlit LCD display: 198 x 80 pixels (matrix)
- 2 Two service keys
- 3 Function or service keys which can be configured and customized using labels 4 Matrix touch screen (11 x 5 cells)

XBT RT511 terminal

- 5 A communication monitoring LED
- 6 A "touch panel or keys being pressed" LED
- 7 An "alarm" LED
- 8 Six or ten lamps, depending on the configuration, that can be controlled by the PLC

Supplied separately:



- 2 sheets of labels comprising:
- 9 A configurable "control" label (F1...F4)
- 10 A customizable blank "control" label
- 11 An "entry" label (R1...R4)
- 12 A "touch-sensitive" label (F1...F10)
- 13 Two customizable blank "touch-sensitive" labels

On the rear panel

XBT RT500 terminal

1 An RJ45 connector for point-to-point serial link and connection for 5 V == power supply (supplied by PLC)

XBT RT511 terminal

- 2 A removable screw terminal block for 24 V --- external power supply
- 3 An RJ45 connector for multidrop serial link
- 4 An 8-way female mini-DIN connector for serial printer link

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4 3 2

References:

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References

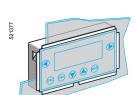
Operator dialogue terminals Magelis[™] XBT N Small Panels with keypad



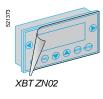








XBT ZN01



Downloadable exchange protocol	Compatible PLCs	Supply voltage	Type of screen	Reference	Weight kg
Terminal with 2 lines o	f 20 characters (with alpha	numeric screen)			
Uni-TE, Modbus	Twido, Nano, TSX Micro, Premium, Modicon M340	5 V via PLC terminal port	Green backlit LCD	XBT N200	0.360
Terminals with 4 lines	of 20 characters (with matr	ix screen)			
Uni-TE, Modbus	Twido, Nano, TSX Micro, Premium, Modicon M340	5 V via PLC terminal port	Green backlit LCD (122 x 32 pixels)	XBT N400	0.360
	Twido (1), Nano, TSX Micro, Premium, TSX series 7, Momentum, Quantum Other Modbus slave devices, Modicon M340	24 V external supply	Green backlit LCD (122 x 32 pixels)	XBT N410	0.380
Uni-TE, Modbus	Twido (1), Nano, TSX Micro, Premium, TSX series 7, Momentum, Quantum Other Modbus slave devices, Modicon M340	24 V external supply	Green, orange and red backlit LCD (2) (122 x 32 pixels)	XBT N401	0.380
Zelio	Zelio Logic	_			
Modbus	TeSys model U motor starters (3) Altivar drives	24 V external supply	Green backlit LCD (122 x 32 pixels)	XBT NU400	0.380

Software			
Description	Operating system	Reference	
Configuration software Vijeo Designer Lite	Windows 2000 Professional, XP Professional and Vista Business (32-bit)	See page 4/7	-

Accessories (4)				
Description	Details	For use with	Reference	Weight kg
Accessory for flush mounting	Kit for applications requiring a higher degree of protection or customization of the control desk, using flat inner insulation (not included)	All XBT N	XBT ZN01	_
Protective sheets	10 peel-off sheets	All XBT N	XBT ZN02	-
Sheets of re-usable labels	10 sheets of 6 labels	XBT N200/400	XBL YN00	_
		XBT N401 XBT NU400	XBL YN01	-
Mechanical adaptors for substitution of XBT H	From XBT H0•2•1/H0•1010 to XBT N410 From XBT H811050 to XBT N410	-	XBT ZNCO	_

Connection cables and accessories (5)							
Description	Compatibility	Types of connector	Physical link	Protocol	Length	Reference	Weight kg
Adaptor cable	XBT N200 XBT N400 <i>(6)</i>	RJ45-RJ45	RS 232C RS 485	Modbus, Uni-TE	0.1 m	XBT ZN999	_

(1) Connection via integrated port or optional serial port on the Twido programmable controller.

(2) Also available with 4 signalling LEDs.
 (3) Factory preloaded application for monitoring, diagnostics and adjustment of 1 to 8 TeSys model U motor starters.

(4) For other accessories, see page 1/24.

 (6) For other connection cables and accessories, see pages 1/24 to 1/27.
 (6) Adaptor XBT ZN999 is designed for use with XBT N200/N400 terminals (new version) and cable XBT Z978 (replaced by XBT Z9780), or with XBT N200/N400 terminals (old version) and the new XBT Z9780 cable.

Note: The new version of the XBT N terminal can be distinguished from the old version by its exterior, as it features the Schneider Electric logo on the front panel (on the left above the screen).

Presentation: page 1/12

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Operator dialogue terminals Magelis[™] XBT R Small Panels with keypad



XBT R400/R410



XBT R411



XBT ZR01



XBT ZR02

Drocontation

Downloadable exchange protocol	Compatible PLCs	Supply voltage	Type of screen	Reference	Weight kg		
Terminals with 4 lines of 20 characters (with matrix screen)							
Uni-TE, Modbus	Twido, Nano, TSX Micro, Premium, Modicon M340	5 V via PLC terminal port	Green backlit LCD (122 x 32 pixels)	XBT R400	0.550		
	Twido (1), Nano, TSX Micro, Premium, TSX series 7, Momentum, Quantum Other Modbus slave devices, Modicon M340	24 V external supply	Green backlit LCD (122 x 32 pixels)	XBT R410	0.550		
Uni-TE, Modbus	Twido (1), Nano, TSX Micro, Premium, TSX series 7, Momentum, Quantum Other Modbus slave devices, Modicon M340	24 V external supply	Green, orange and red backlit LCD (2) (122 x 32 pixels)	XBT R411	0.550		
Zelio	Zelio Logic	_					

Sullware			
Description	Operating system	Reference	
Configuration software Vijeo Designer Lite	Windows 2000 Professional, XP Professional and Vista Business (32-bit)	See page 4/7	

Accessories (3)				
Description	Details	For use with	Reference	Weight kg
Accessory for flush mounting	Kit for applications requiring a higher degree of protection or customization of the control desk, using flat inner insulation (not included)	All XBT R	XBT ZR01	-
Protective sheets	10 peel-off sheets	All XBT R	XBT ZR02	-
Sheets of re-usable labels	10 sheets of 6 labels	XBT R400/R410	XBL YR00	-
		XBT R411	XBL YR01	-
Mechanical adaptor for	From XBT P01•010/P02•010 to XBT R410	-	XBT ZRCO	
substitution of XBT P	From XBT P02•110 to XBT R411	_		-

Connection via integrated port or optional serial port on the Twido PLC.
 Also available with 16 signalling LEDs.
 For other accessories, see pages 1/24 to 1/27.

page 1/12	page 1/16	

Description

1

Operator dialogue terminals Equivalent product tables Magelis[™] XBT P/XBT R



Ľ	terminars					
	Old range XBT P	XBT R range	Mechanical adaptor (1)			
	XBT P011010	XBT R410	XBT ZRCO			
	XBT P012010	XBT R410	XBT ZRCO			
	XBT P021010	XBT R410	XBT ZRCO			
	XBT P021110	XBT R411	XBT ZRCO			
	XBT P022010	XBT R410	XBT ZRCO			
	XBT P022110	XBT R411	XBT ZRCO			

(1) Mechanical adaptor for mounting XBT R terminal in place of the substituted XBT P terminal.

XBTZRCO

Equivalent product table - Cables for connection to Schneider Electric products

Summary		
Old range XBT P	XBT R range	
Type of link	Type of link	Cable
Serial port, 25-way SUB-D RS 232C/RS 485/RS 422	Serial port, 25-way SUB-D RS 232C/RS 485	Existing cable (see below)
Printer port, 9-way SUB-D (model XBT P02●110)	Printer port, 8-way mini-DIN (model XBT R411)	XBT Z926 (new cable)

Equivalent product table - Cables

Equivalent prod	uct table - Gables						
Old range XBT P				XBT R range			
Type of terminal	Type of link	Length	Reference	Type of terminal	Type of link	Length	Reference
Twido, Modicon TS	SX Micro, Modicon Prem	nium, 8-wa	ay mini-DIN terminal port,	Uni-TE (V1/V2	2), Modbus protocol		
XBT P	RS 485 serial port,	2.5 m	XBT Z968	XBT R	RS 485 serial port,	2.5 m	XBT Z968
	25-way SUB-D	5 m	XBT Z9681		25-way SUB-D	5 m	XBT Z9681
		2.5 m, angled	XBT Z9680			2.5 m, angled	XBT Z9680
Modicon Premium	with TSX SCY 2160e, 25	-way fema	ale SUB-D connector, Uni	-TE (V1/V2) pr	otocol		
XBT P	RS 485 serial port, 25-way SUB-D	2.5 m	XBT Z918	XBT R	RS 485 serial port, 25-way SUB-D	2.5 m	XBT Z918
Modicon Quantum	, 9-way male SUB-D con	nector, Mo	odbus protocol				
XBT P	RS 232C serial port, 25-way SUB-D	2.5 m	XBT Z9710	XBT R	RS 232C serial port, 25-way SUB-D	2.5 m	XBT Z9710
Advantys STB, HE	13 connector (network inf	erface mo	odule, NIM), Modbus prote	looc			
XBT P	RS 232C serial port, 25-way SUB-D	2.5 m	XBT Z988	XBT R	RS 232C serial port, 25-way SUB-D	2.5 m	XBT Z988
Modicon Momentu	m M1, RJ45 connector (p	port 1), Mc	odbus protocol				
XBT P	RS 232C serial port, 25-way SUB-D	2.5 m	XBT Z9711	XBT R	RS 232C serial port, 25-way SUB-D	2.5 m	XBT Z9711
TeSys U starters, A	TV 31/61/71 drives, ATS	48 starte	ers, RJ45 connector, Mod	bus protocol			
XBTP	RS 485 serial port, 25-way SUB-D	2.5 m	XBT Z938	XBT R	RS 485 serial port, 25-way SUB-D	2.5 m	XBT Z938
LT6 P multifunction	n protection relay, 9-way	y female S	SUB-D connector, Modbu	s protocol			
XBT P	RS 232C serial port, 25-way SUB-D	2.5 m	XBT Z938	XBT R	RS 232C serial port, 25-way SUB-D	2.5 m	XBT Z938

Old range XBT P				XBT R rang	е		
Type of terminal	Type of link	Length	Reference	Type of terminal	Type of link	Length	Reference
Cables for applica	tion transfer to PC						
XBT P	25-way SUB-D/ 9-way SUB-D	2.5 m	XBT Z915	XBT R	25-way SUB-D/ 9-way SUB-D	2.5 m	XBT Z915
	25-way SUB-D/USB	2.5 m	XBT Z915 + adaptor SR2 CBL 06		25-way SUB-D/ USB	2.5 m	XBT Z915 + adaptor SR2 CBL 06
Serial printer cable	9						
XBT P	Printer port, 9-way SUB-D	2.5 m	XBT Z936	XBT R	Printer port, mini-DIN 8	2.5 m	XBT Z926

Operator dialogue terminals Equivalent product tables Magelis[™] XBT P/XBT R

				e third-party pro PLC brand	Compatibility			Protoco	name
				F LO Drand	XBT P	XBT R			name
				Allen-Bradley				DF1/DH4	185
				GE Fanuc	-	_		SNPX	100
				Omron		 ■ (on RS 232)		Sysmacv	vav
				Siemens	-	■ (011 K3 232)		PPI	••• y
					•	-			964R, MPI
				or connection to	o third-party F	PLCs			
	QM1 & CVM1, Sys	mac PLC	Cs		lunn n				
Old range		Ormini	Land	Deferment	XBT R range	Truck	Oppiel	Land	Defe
Type of terminal	Type of connector	Serial port	Length	Reference	Type of terminal	Type of connector	Serial port	Length	Reference
	ay protocol	port					port		
BT P	25-way SUB-D/	RS 232	2.5 m	XBT Z9740	XBT R	25-way SUB-D/	RS 232C	2.5 m	XBT Z9740
	9-way SUB-D	110 202	2.0 111			9-way SUB-D	110 2020	2.0 11	75123/40
Rockwel	Automation, Aller	n-Bradle	y PLCs						
Old range					XBT R range				
Type of	Type of	Serial	Length	Reference	Type of terminal	Type of	Serial	Length	Reference
terminal	connector	port				connector	port		
DF1 proto	col								
BT P	25-way SUB-D/	RS 232C	2.5 m	XBT Z9730	XBT R	25-way SUB-D/	RS 232C	2.5 m	XBT Z9730
P SLC5	9-way SUB-D				AP SLC5	9-way SUB-D			
(BT P	25-way SUB-D/	RS 232C	2.5 m	XBT Z9720	XBT R	25-way SUB-D/	RS 232C	2.5 m	XBT Z9720
PPLC5	25-way SUB-D	DO 51			AP PLC5	25-way SUB	BG S S S S	~ -	
(BT P	25-way SUB-D/	RS 232C	2.5 m	XBT Z9731	XBT R	25-way SUB-D/	RS 232C	2.5 m	XBT Z9731
P /icro-logix	Micro-logix 1000				AP Micro-logix	Micro-logix 1000			
	int-to-point protocol								
ВТР	25-way SUB-D/	RS 232C	2.5 m	XBT Z9732	XBT R	25-way SUB-D/	RS 232C	2.5 m	XBT Z9732
NP	Micro-logix 1000	110 2020	2.0 111		AP Micro-logix	Micro-logix 1000	110 2020	2.0 11	AUT 20152
 ⁄licro-logix	- 5					5			
DH 485 mu	ultidrop protocol								
(BT P	25-way SUB-D/	RS 232C	2.5 m	XBT Z9730	XBT R	25-way SUB-D/	RS 232C	2.5 m	XBT Z9732
SLC500	9-way SUB-D				AP SLC5 with	Micro-logix 1000			
vith AIC					AIC gateway				
ateway									
Siemens	, Simatic PLCs								
Old range					XBT R range				
Type of	Type of	Serial	Length	Reference	Type of terminal	Type of	Serial	Length	Reference
terminal	connector	port	Lengui	Kelerence	Type of terminal	connector	port	Length	Reference
PPI (S7) pi									
(BT P	25-way SUB-D/	RS 485	2.5 m	XBT Z9721	XBT R	25-way SUB-D/	RS 485	2.5 m	XBT Z9721
	9-way SUB-D					9-way SUB-D			
Equiva	lent product ta	ble - Co	onnec	tion to Uni-Telwa	ay serial link				
Old range					XBT R range				
Type of	Type of	Serial	Length	Reference	Type of terminal	Type of	Serial	Length	Reference
terminal	connector	port				connector	port		
On subscr	riber socket TSX SCA	62							
(BT P	25-way SUB-D/	RS 485	1.8 m	XBT Z908	XBT R	25-way SUB-D/	RS 485	1.8 m	XBT Z908
_	15-way SUB-D					15-way SUB			
	ction box TSX P ACC								
(BT P	25-way SUB-D/	RS 485	2.5 m	XBT Z968	XBT R	25-way SUB-D/	RS 485	2.5 m	XBT Z968
	8-way mini-DIN		5 m	XBT Z9681		8-way mini-DIN		5 m	XBT Z9681
	lont product to	hla C	00000	tion to Madhus	orial link				
-	-	ble - Co	onnec	tion to Modbus					
Old range					XBT R range				
Type of	Type of	Serial	Length	Reference	Type of terminal	Type of	Serial	Length	Reference
erminal	connector	port				connector	port		
	riber socket TSX SCA				1				
BTP	25-way SUB-D/	RS 485/	1.8 m	XBT Z908	XBT R	25-way SUB-D/	RS 485/	1.8 m	XBT Z908
0	15-way SUB-D	RS422			I	15-way SUB-D	RS 422		
Un 8-port	splitter box LU9 GC3				1				
BTP	25-way SUB-D/RJ45	DO 11-	2.5 m	XBT Z938	XBT R	25-way SUB-D/RJ45	RS 485	2.5 m	XBT Z938

References

Operator dialogue terminals Small Panels with touch screen and keypad Magelis[™] XBT RT

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XBT RT500



P6 P6 P7 P8 P8 P0

XBT RT511

Downloadable exchange protocol	Compatible PLCs	Supply voltage	Type of screen	Reference	Weight kg
Terminal with 10 lines of 3	0 characters (with matrix scr	reen)			
Uni-TE, Modbus	Twido, Nano, TSX Micro, Premium, Modicon M340	5 V via PLC terminal port	Green backlit LCD (198 x 80 pixels)	XBT RT500	0.550
Uni-TE, Modbus	Twido, Nano, TSX Micro, Premium, TSX Series 7, Momentum, Quantum, other Modbus slave devices, Modicon M340	24 V external supply	Green, orange or red backlit LCD (198 x 80 pixels) + 13 signalling LEDs + buzzer	XBT RT511	
Zelio	Zelio Logic	_			

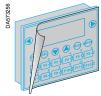
Software			
Description	Operating system	Reference	
Configuration software Vijeo Designer Lite	Windows 2000 Professional, XP Professional and Vista Business (32-bit)	See page 4/7	-

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Separate components for Magelis[™] XBT N, XBT R, XBT RT and Magelis[™] STO, STU



XBT ZR01



XBT ZR02

Description	Details	For use with	Reference	Weight kg
Accessory for flush mounting	Kit for applications requiring a higher degree of protection or customization of the control desk, using flat inner insulation (not included)	All XBT RT	XBT ZR01	-
Protective sheets	10 peel-off sheets	All XBT RT	XBT ZR02	-
Sheets of re-usable labels	10 sheets of 6 labels	XBT RT500	XBL YRT00	-
		XBT RT511	XBL YRT01	-
Mechanical adaptor for substitution XBT P/PM		-	XBT ZRCO	-

Description	Compatibility	Type of connector	Physical link	Protocol	Lengt m	th Reference	Weight kg
Downloading adaptor (2	XBT RT500	RJ45-RJ45	RS 485	Modbus	0.2	XBT ZRT 999	-

(1) For other accessories, see page 1/24.
 For other connection cables and accessories, see pages 1/24 to 1/27.
 (2) Also included in kit XBT Z 945.

Separate components for Magelis[™] XBT N, XBT R, XBT RT and Magelis[™] STO, STU

Accessories				
Туре	Compatibility	Sold in lots of	Unit reference	Weight kg
External 5 V adaptor (1)	XBT N200/N400 XBT R400 XBT RT500	1	XBT ZRT PW	-
XBT RT download adaptor (2)	XBT RT500/511	1	XBT ZRT999	_
Spring clips (replacement parts)	XBT N/R/RT/GT HMI STO	12	XBT Z3002	0.200
Power supply connector (replacement parts)	XBT N/R/RT	10	XBT Z3004	0.200
	HMI STO	5	HMI ZS PWO	_
	HMI STU	5	XBT ZG PWS1	_

Used	Compatibility	Length	Peripheral side	Reference	Weight
		-	connector		kg
Cables for PC connection, RS 232C serial port	XBT N401/N410/NU400 XBT R410/R411	2.5 m	9-way male SUB-D	XBT Z915	0.200
	XBT N200/N400/R400 XBT RT500/RT511	2.5 m	9-way male SUB-D and mini-DIN (PS/2)	XBT Z945	0.200
USB cable for PC connection (3)	XBT N/R/RT	-	USB type A male	TSX CUSB 485	_
	HMI STO/STU	2.5 m	USB type A male	XBT ZG935	_
	HMI STO/STU	1.8 m	USB type mini-B male	BMX XCA USB H018	0.230
XBT adaptor for USB cable	XBT N/R/RT	2 m	Set of 2 cables (RJ45/RJ45 RJ45/25-way SUB-D	XBT Z925	-
Serial printer cables	XBT N/R/RT	2.5 m	25-way female SUB-D	XBT Z926	0.220
	HMI STO/STU	1.8 m	9-way male SUB-D	HMI ZURS	-
USB host extension cable	HMI STO/STU	2 m	USB type A male, dust and damp proof	XBT ZG USB	0.220
USB device extension cable	HMI STO/STU	2 m	USB type mini-B male, dust and damp proof	HMI ZS USBB	_

Use a 5 V ---- power supply: ABL 8MEM 05040
 XBT 2945 cable included.
 Adaptor to be used with XBT 2925 cable.

Separate components for Magelis[™] XBT N, XBT R, XBT RT and Magelis[™] STO, STU

Type of PLC to be connected	Type of connector	Physical link	Protocol	Length	Reference	Weight kg
Direct connection of XE	BT N/R/RT (XBT N200/N	400/R400/	RT500/RT511)	and HMI S	STO/STU termina	J
Schneider Electric PLC		DO 105				
Twido, Modicon Nano, Modicon TSX Micro,	Mini-DIN	RS 485	Modbus/Uni-TE		XBT Z9780	
Modicon Premium				10 m	XBT Z9782 (1)	-
Modicon M340	RJ45	RS485	Modbus	2.5 m	XBT Z9980	-
				10 m	XBT Z9982 (1)	-
Direct connection of XE	3T N/R (XBT N410/N401	/R410/R41	1) terminals to	Schneid	er Electric PLCs	
Twido, Modicon Nano,	Terminal port, 8-way	RS 485	Uni-TE	2.5 m	XBT Z968	0.180
Modicon TSX Micro, Modicon Premium	female mini-DIN		(V1/V2) and Modbus	5 m	XBT Z9681	0.340
			Moubus	2.5 m (2)	XBT Z9680	0.170
Modicon Premium with TSX SCY 2160●	25-way female SUB-D	RS 485	Uni-TE (V1/V2)	2.5 m	XBT Z918	0.230
Modicon Quantum	9-way male SUB-D	RS 232	Modbus	2.5 m	XBT Z9710	0.210
Modicon STB	HE13 (NIM)	RS 232	Modbus	2.5 m	XBT Z988	0.170
Modicon Momentum M1 (Port 1)	RJ45	RS 232	Modbus	2.5 m	XBT Z9711	0.210
Modicon M340	RJ45	RS 485	Modbus	2.5 m	XBT Z938	0.210
Direct connection of XE 2nd mini-DIN serial por				Schneide	r Electric PLCs v	ia the
Zelio Logic	Programming port (specifically for Zelio Logic)	_	Zelio	3 m	SR2 CBL 08	-
Direct connection of the	e HMI STO 501 terminal	to Zelio L	ogic SR2/SR3	controlle	rs	
Zelio Logic SR2/SR3 <i>(3)</i>	Programming port (specifically for Zelio Logic)	RS 232C	Zelio	2.5 m	SR2 CBL 09	-

(1) For XBT N200/N400/R400/R7500, use a cable with adaptor XBT ZRT PW and a 5 V ---- power supply.
(2) Angled SUB-D connector.
(3) Cable included with 9-way removable screw terminal block.

Separate components for Magelis[™] XBT N, XBT R, XBT RT and Magelis[™] STO, STU

		RT500/RT511 and Ma	-			on STB I/O (1)	
Modicon STB		HE13 (NIM)	RS 232	Modbus	2.5 m	XBT Z9715	
Direct conr starters and		(XBT NU400/N410/N4	01/R410/R4	11) terminals to	Schneid	er Electric motor	
TeSys U, T ATV 312/32/61 speed drives ATS 48 starter	I/71 variable	RJ45	RS 485	Modbus	2.5 m	XBT 2938	0.2
		(XBT N200/N400/R40 starters and drives (2)		511) and Magel	is STO/ST	U terminals to	
TeSys U, T ATV 312/32/61 speed drives ATS 48 starte	I/71 variable	RJ45	, RS 485	Modbus	2.5 m	XBT Z9980	
Direct conr	nection of XBT	(XBT N410/N401/R41	0/R411) term	ninals to third-	party PLC	s	
Allen-Bradley		9-way male SUB-D	RS 232	DF1	2.5 m	XBT Z9730	0.2
	PLC5	25-way female SUB-D	RS 232	DF1	2.5 m	XBT Z9720	0.2
	Micro-logix	Micro-logix 1000	RS 232	DF1	2.5 m	XBT Z9731	0.2
				DH485	2.5 m	XBT Z9732	
Mitsubishi	FX	8-way female mini-DIN	RS 232/ RS 422 converter	Melsec FX	2.5 m	XBT Z980	
Omron	CPM1, CPM2, CJ1, CS1	9-way male SUB-D	RS 232	Sysmacway	2.5 m	XBT Z9740	0.2
Siemens	S7 (PG)	9-way male SUB-D	RS 485	PPI	2.5 m	XBT Z9721	0.2
Direct conr Allen-Bradley		XBT RT500/RT511 and 9-way male	I Magelis ST RS 232	O/STU termina DF1	I l to third- 2.5 m	party PLCs (1) XBT Z9734	
Julion Dradioy		SUB-D	110 202		2.0 11	XB1 20104	
	Micro-logix	Micro-logix 1000	RS 232	DF1	2.5 m	XBT Z9733	
		8-way female	RS 232/ RS 422	Melsec FX	2.5 m	XBT Z980 + (3)	
Mitsubishi	FX	mini-DIN					
Mitsubishi Omron	FX CPM1, CPM2, CJ1, CS1		RS 422 converter RS 232	Sysmacway	2.5 m	XBT Z9743	

Separate components for Magelis[™] XBT N, XBT R, XBT RT and Magelis[™] STO, STU

Cables for connec	cting Magelis termin	als (continued)			
Bus and network con	nections for XBT N410/N	401/R410/R411 terminal	s		
Type of bus/network	Tap-off units	Type of connector	Length	Reference	Weight kg
Uni-Telway serial link	Subscriber socket TSX SCA 62	15-way female SUB-D	1.8 m	XBT Z908	0.240
	Connection box TSX P ACC 01	8-way female mini-DIN	2.5 m	XBT Z968	0.180
			5 m	XBT Z9681	0.340
			10 m	XBT Z9686	
			20 m	XBT Z9687	
			25 m	XBT Z9688	
Modbus serial link	Subscriber socket TSX SCA 64	15-way female SUB-D	1.8 m	XBT Z908	0.240
	8-port Modbus splitter box LU9 GC3, Modbus tap-off, TWD XCA ISO, TWD XCA T3RJ	RJ45	2.5 m	XBT Z938	0.210

Bus and network conr	ections for XBT RT511	and Magelis STO/STU te	rminals		
Type of bus/network	Tap-off units	Type of connector	Length	Reference	Weight kg
Uni-Telway serial link	Connection box TSX P ACC 01	8-way female mini-DIN	2.5 m	XBT Z9780	0.180
Modbus serial link	8-port Modbus splitter box LU9 GC3, Modbus tap-off, TWD XCA ISO, TWD XCA T3RJ	RJ45	2.5 m	XBT Z9980	

Selection guide

Operator dialogue terminals

Magelis[™] GTO Optimum Advanced Panels

Applications

Type of terminal

Degree of protection (according to IEC 60529)

Display of text messages, graphic objects and synoptic views Control and configuration of data

Optimum Advanced Panels, touch screen

IP 65 (IP 67 with addition of a cover)

		Vight a Constant Constan	Parton Karana				
Display	Туре	Colour TFT LCD, backlit 320 x 240 pixels (QVGA)		Colour TFT LCD, backlit 800 x 480 pixels (WVGA)			
	Capacity	3.5"	5.7"	7.0 Wide			
Data entry		Via touch screen	Via touch screen	Via touch screen			
Jata entry	Static function keys	6 function keys		8 function keys			
	Dynamic function keys	(static or dynamic)	_	(static or dynamic)			
	Service keys	-	-	-			
	Alphanumeric keys	-	-	-			
	. ,						
Memory capacity	Applications	64/96 MB Flash EPROM (1)	By 4 GB SD card (except H	96 MB Flash EPROM			
	Expansion	-	By 4 GB SD Calu (except P	101 GTO2300)			
unctions	Maximum number of pages	Limited by internal Flash EPROM memory capacity	Limited by capacity of internal Flash EPROM memory or of SD card				
	Variables per page	Unlimited (8000 variables max	(.)				
	Representation of variables	Alphanumeric, bitmap, bargraph	, gauge, tank, tank level indicator,	, curves, polygon, button, LED			
	Recipes	32 groups of 64 recipes compr	ising 1024 ingredients max.				
	Curves	Yes, with log					
	Alarm logs	Yes					
	Real-time clock	Built-in	Built-in				
	Discrete I/O	-					
	Multimedia I/O	-					
Communication	Downloadable protocols	Uni-TE (2), Modbus, Modbus 1 Allen-Bradley and Siemens	Uni-TE (2), Modbus, Modbus TCP/IP (1) and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens				
	Asynchronous serial link	RS 232C (COM1) and RS 485	(COM2) except HMI GTO1310): RS 232C/485 (COM1)			
	USB ports	1 type A host connector + 1 min					
	Buses and networks		00BASE-TX) (3), Modbus Plus	and Fipway via USB gateway			
	Printer link	RS 232C (COM1) serial link (4	and USB port for parallel print	ter			
Development softwa	aro	Vijeo Designer (on Windows X	(P and Windows 7)				
Operating system		Magelis (333 MHz RISC CPU)	,				
oporating system							
Type of terminal		HMI GTO1300 HMI GTO1310	HMI GTO2300 HMI GTO2310	HMI GTO3510			
Page		1/43					
		(1) Depending on model.					
		(2) Uni-TE version V2 for Twido controller and TSX Micro/Premium platform.					

(2) Uni-TE version V2 for Twido controller and TSX Micro/Premium platform.
 (3) Except HMI GTO1300 and GTO2300 (Modbus Plus and Fipway via USB gateway only).

(4) Except HMI GTO1310 (USB port for parallel printer only).

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Display of text messages, graphic objects and synoptic views Control and configuration of data					
Optimum Advanced Par	els, touch screen		Optimum Advanced Panels, touch screen, "Stainless Steel" version		
IP 65 (IP 67 with addition of a cover)			IP 66K (Front panel with stainless steel frame) for food & beverage environment		
Hyper Hy					
Colour TFT LCD, backlit 640 x 480 pixels (VGA)	Colour TFT LCD, backlit 640 x 480 pixels (VGA)	Colour TFT LCD, backlit 800 x 600 pixels (SVGA)	Colour TFT LCD, backlit 320 x 240 pixels (QVGA)	Colour TFT LCD, backlit 640 x 480 pixels (VGA)	Colour TFT LCD, backlit 800 x 600 pixels (SVGA)
7.5"	10.4"	12.1"	5.7"	10.4"	12.1"
Via touch screen					
-					
-					
-					
96 MB Flash EPROM By 4 GB SD card					
Limited by capacity of inte	rnal Flash EPROM memor	y or of SD card			
	max.) rgraph, gauge, tank, tank le omprising 1024 ingredients		on, button, LED		
-					
Uni-TE (2), Modbus, Mod	bus TCP/IP (1) and for PLC	brands: Mitsubishi, Omron	, Allen-Bradley and Siemer	IS	
			gateway		
Vijeo Designer (on Windo Magelis (333 MHz RISC (
HMI GTO4310	HMI GTO5310	HMI GTO6310	HMI GTO2315	HMI GTO5315	HMI GTO6315
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Operator dialogue terminals Standard Advanced Panels

Standard Advanced Panels Magelis[™] GT, GK, GH and GTW

		Control and configuration of	data				
Type of terminal		Touch screen Standard Advar					
Display	Туре	Backlit monochrome (amber or red mode) STN LCD (320 x 240 pixels) or TFT LCD	Backlit monochrome or colour STN LCD or backlit colour TFT LCD (320 x 240 pixels) or (640 x 480 pixels) (3)	Backlit colour STN LCD or colour TFT LCD (640 x 480 pixels)			
	Capacity	3.8" (monochrome or colour)	5.7" (monochrome or colour)	7.5" (colour)			
			. ,				
Data entry	Chatia function losse	Via touch screen					
	Static function keys	_					
	Dynamic function keys Service keys	-					
	Alphanumeric keys	-					
	Alphanumenc keys	_					
Memory capacity	Applications	32 MB Flash EPROM	16 MB Flash EPROM (3)	32 MB Flash EPROM			
	Expansion	-	By means of 128 MB, 256 MB, 512 I (except XBT GT2110)				
Functions	Maximum number of pages	Limited by internal Flash EPROM memory capacity	Limited by capacity of internal Flash EPROM memory or C card memory				
	Variables per page	Unlimited (8000 variables max.)					
	Representation of variables	Alphanumeric, bitmap, bargrapl	n, gauge, tank, tank level indicato	or, curves, polygon, button,			
	Recipes	32 groups of 64 recipes compris	sing 1024 ingredients max				
	Curves	Yes, with log					
	Alarm logs		Yes				
	Real-time clock	Built-in					
	Discrete I/O	-		1 input (reset) and 3 outpo (alarm, buzzer, run)			
	Multimedia I/O	-	(3)	1 audio input (microphone 1 composite video input (digital or analogue video camera), 1 audio output (loudspeaker) (1)			
Communication	Downloadable protocols	Uni-TE (2), Modbus, Modbus To and Siemens	Uni-TE (2), Modbus, Modbus TCP/IP (1) and for PLC brands: Mitsubishi, Omron, A and Siemens				
	Asynchronous serial link	RS 232C/485 (COM1)	RS 232C/RS 422/485 (COM1)	and RS 485 (COM2)			
	USB ports	1	1 (3)	1			
	Bus and networks		Modbus Plus and Fipway with L and Device Net with optional ca				
	Drinten link	Ethernet TCP/IP (10BASE-T/10					
	Printer link	USB port for parallel printer	RS 232C (COM1) serial link, US	BB port for parallel printer			
Development softwa	Ire	Vijeo Designer (on Windows XF	Professional and Windows 7 Pro	ofessional 32/64-bit)			
Operating system		Magelis (200 MHz RISC CPU)	Magelis (133 MHz RISC CPU) <i>(3)</i>	Magelis (266 MHz RIS CPU)			
Type of terminal		XBT GT11/13	XBT GT21/22/23/24/29	XBT GT42/43			
Page		1/59					
		(1) Depending on model.					

(4) For XBT GT 5430.

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Display of text messages, graphic objects and synoptic views Control and configuration of data

Touch screen Standard Advanced Panels







Backlit colour STN LCD or colour TFT LCD (640 x 480 pixels or 800 x 600 pixels) (4)

Backlit colour TFT LCD (800 x 600 pixels)

Backlit colour TFT LCD (1024 x 768 pixels)

1

10.4" (colour)

12.1" (colour)

15" (colour)

Via touch screen

_

32 MB Flash EPROM

By means of 128 MB, 256 MB, 512 MB, 1 GB or 2 GB CF card

Limited by capacity of internal Flash EPROM memory or CF card memory

Unlimited (8000 variables max.)

Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, LED

32 groups of 64 recipes comprising 1024 ingredients max.

Yes, with log

Yes

Built-in

1 input (reset) and 3 outputs (alarm, buzzer, run)

1 audio input (microphone), 1 composite video input (digital or analogue video camera), 1 audio output (loudspeaker) (1)

Uni-TE (2), Modbus, Modbus TCP/IP (1) and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens

RS 232C/RS 422/485 (COM1) and RS 485 (COM2)

2

Modbus Plus with USB gateway

Ethernet TCP/IP (10BASE-T/100BASE-TX) RS 232C (COM1) serial link, USB port for parallel printer

Vijeo Designer (on Windows XP Professional and Windows 7 Professional 32/64-bit)

Magelis (266 MHz RIS CPU)

XBT GT52/53/54	XBT GT63	XBT GT73
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Selection guide (continued)

Operator dialogue terminals Standard Advanced Panels

Standard Advanced Panels Magelis[™] GT, GK, GH and GTW

		Display of text messages, graphic object Control and configuration of data				
Type of terminal		Standard Advanced Panels with keypad	Standard Advanced Panels with keypad			
Display	Туре	Colour TFT LCD (320 x 240 pixels) or monochrome STN	Colour TFT LCD			
	Capacity	5.7" (monochrome or colour)	(640 x 480 pixels) 10.4" (colour)			
	Capacity		10.4 (00001)			
Data entry		Via keypad and/or touch screen (configura	ble) and/or by industrial pointer			
	Static function keys	10	12			
	Dynamic function keys	14	18			
	Service keys	8				
	Alphanumeric keys	12				
Memory capacity	Application	16 MB Flash EPROM	32 MB Flash EPROM			
icition y cupacity	Expansion	By means of 128 MB, 256 MB, 512 MB, 1 0				
Functions	Maximum number of pages	Limited by capacity of internal Flash EPRC	DM memory or CF card memory			
	Variables per page	Unlimited (8000 variables max.)				
	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, LED				
	Recipes	32 groups of 64 recipes comprising 1024 ir	ngredients max.			
	Curves	Yes, with log				
	Alarm logs	Yes				
	Real-time clock	Built-in				
	Discrete I/O	-	1 input - 3 outputs			
	Multimedia I/O	-	-			
Communication	Downloadable protocols	Uni-TE (2), Modbus, Modbus TCP/IP (1) an Allen-Bradley and Siemens	nd for PLC brands: Mitsubishi, Omron,			
	Asynchronous serial link	RS 232C/RS 422/485 (COM1) RS 485 (COM2)				
	USB ports	1	2			
	Bus and networks	Modbus Plus, Fipway with USB gateway, F Ethernet TCP/IP (10BASE-T/100BASE-T)	PROFIBUS DP and Device Net with optional carc			
	Printer link	RS 232C (COM1) serial link, USB port for p	parallel printer			
Dovelonment coft			-			
Development softwa Operating system		Vijeo Designer (on Windows XP Profession Magelis (CPU 266 MHz RISC)	nai anu vvinuows / Proiessional 32/64-bit)			
Type of terminal		XBT GK 21/23	XBT GK 53			
Page		1/60				

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Schneider

Portable Standard Advanced	Panels Open touch screen Standard	d Advanced Panels	
Colour TFT LCD (640 x 480 pixels)	Colour TFT LCD (800 x 600 pixels)	Colour TFT LCD (800 x 600 pixels)	Colour TFT LCD (1024 x 768 pixels)
5.7" (colour)	10.4" (colour)	12" (colour)	15" (colour)
Via touch screen	Via touch screen		
11	-		
-	-		

32 MB Flash EPROM 2 GB CF system card included with terminal, expandable to 4 GB

By means of 128 MB, 256 MB, 512 MB, 1 GB or 2 GB CF card (3)

Display of text messages, graphic objects and synoptic views Control and configuration of data

Limited by capacity of internal Flash EPROM memory or CF card memory Unlimited (8000 variables max.)

Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, LED

32 groups of 64 recipes comprising 1024 ingredients max.

Yes,	with	log
Yes		

Built-in

_

_

1 audio output

1 2+1 frontal - Modbus Plus with USB gateway 1 Ethernet port (10BASE-T/100BASE-TX) 2 Ethernet ports (4) (10BASE-T/100B. - RS 232C (COM1) serial link, USB por Vijeo Designer (on Windows XP Professional and Windows 7 Professional 32/6 Magelis (266 MHz RISC CPU) Windows XP Embedded	t for parallel printer	2+1 frontal		
1 2+1 frontal - Modbus Plus with USB gateway 1 Ethernet port (10BASE-T/100BASE-TX) 2 Ethernet ports (4) (10BASE-T/100B) - RS 232C (COM1) serial link, USB por Vijeo Designer (on Windows XP Professional and Windows 7 Professional 32/6	ASE-TX/1 GB) t for parallel printer	2+1 frontal		
1 2+1 frontal - Modbus Plus with USB gateway 1 Ethernet port (10BASE-T/100BASE-TX) 2 Ethernet ports (4) (10BASE-T/100B.	ASE-TX/1 GB)	2+1 frontal		
1 2+1 frontal - Modbus Plus with USB gateway 1 Ethernet port (10BASE-T/100BASE-TX) 2 Ethernet ports (4) (10BASE-T/100B.	ASE-TX/1 GB)	2+1 frontal		
1 2+1 frontal	4+1 frontal	2+1 frontal		
	4+1 frontal	2+1 frontal		
RS 2320/RS 422-463 (COMIT) RS 2320 (COMIT)	, <i>,</i>			
RS 232C/RS 422-485 (COM1) RS 232C (COM1)	RS 232C (COM1)	RS 232C (COM1)		
Uni-TE (2), Modbus, Modbus TCP/IP and for PLC brands: Mitsubishi, Omron, Rockwell Automation and Siemens	Uni-TE (2), Modbus, Modbus TCP/IP (1) and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens			

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(1) Depending on model.
(2) Uni-TE version V2 for Twido controller and TSX Micro/Premium platform.
(3) Except for HMI GTW •••• with 4 GB SD memory card.
(4) Except on XBT GTW652 with 1 Ethernet TCP/IP port (10BASE-T/100BASE-TX) and 1 Ethernet TCP/IP port (10BASE-T/100BASE-TX/1 GB).

(5) Version without Emergency stop button.(6) Version with stainless steel front panel.

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Magelis colour touch screen terminals HMI GTO

Overview

The Optimum Advanced Panels (Magelis GTO) touch screen panels offer includes:

- A range of 8 colour touch screen terminals (TFT technology), available in a choice of 5 sizes
- □ 3.5" □ 5.7"
- □ 7": 7 Wide and 7.5" (front identical in size)
- □ 10.4"
- □ 12.1"

A range of 3 colour TFT touch screens available in 3 sizes:

- □ 5.7"
- □ 10.4" □ 12.1"

with front featuring a stainless steel frame, dedicated to applications in harsh environments (food & beverage and pharmaceutical).

Operation

Magelis GTO Advanced Panels feature optimized information and communication technologies, which, depending on the model, include:

- High level of communication (embedded Ethernet, multilink, Web server and FTP, e-mail)
- External storage of data (SD memory card and USB memory stick) for storing production data and backing up applications
- Management of peripherals: printers, bar code readers, etc.

These terminals offer an excellent level of technical performance designed principally for use by OEM customers.

Environment

The Magelis GTO optimized range has been designed in accordance with numerous standards, certifications and requirements:

- Standards: EN 61131-2, 61000-6-2 and UL508.
- Certifications:
- □ C€, C-tick, GOST-R, KCC
- □ Atex and UL Hazardous location (pending)
- □ Marine certifications (pending).
- Operating temperature: up to 55°C
- Degree of protection (according to IEC 60529):
- □ IP 65 for standard version products

□ IP 67 for standard version products fitted with a cover for harsh environments (see accessories page 1/62)

□ IP 66K for "Stainless Steel" version products

■ Resistance to high-pressure cleaning (conforming to DIN 40050-9): up to 10 bar for "Stainless Steel" version products.

Piper and Andrews	

Magelis colour touch screen terminals HMI GT0005 in 3 sizes from 5.7" to 12.1" ("Stainless Steel" version)

Description:	References:	Connections:	Substitution:	
page 1/38	page 1/43	page 1/71	page 1/75	
1/0.1		Calenaídan		

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General (continued)

Operator dialogue terminals Magelis[™] GTO Optimum Advanced Panels



Configuration

Like all the other Magelis Advanced Panels, Magelis GTO Optimum Advanced Panels can be configured using Vijeo Designer software in a Windows XP and Windows 7 environment.

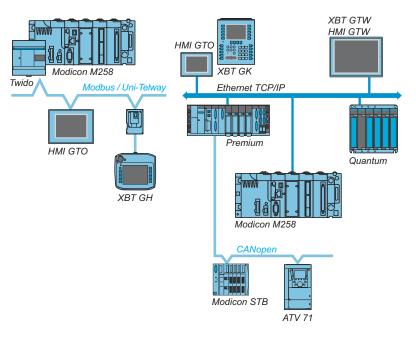
Vijeo Designer software boasts an advanced user interface with many configurable windows, enabling projects to be developed quickly and easily.

The Magelis GTO range is compatible with Vijeo Designer version V6.1 or later.

See page 4/8.

Display of a video sequence

Communication



Optimum Advanced Panels communicate with PLCs via one or two integrated serial links, using communication protocols:

- Schneider Electric (Uni-TE, Modbus)
- Third-party: Mitsubishi Electric, Omron, Allen-Bradley and Siemens

Depending on the model, they can be connected to Ethernet TCP/IP networks using: A Modbus TCP protocol

- An Ethernet TCP/IP protocol
- or a third party protocol

Description:	References:	Connections:	Substitution:	
page 1/38	page 1/43	page 1/71	page 1/75	

Functions

Optimum Advanced Panels offer the following functions:

- Display of animated synoptic views with 8 types of animation (pressing the touch panel, colour changes, filling, movement, rotation, size, visibility and value display)
- Control, modification of numeric and alphanumeric values
- Display of current date and time
- Real-time and trending curves with log
- Alarm display, alarm log and management of alarm groups
- Multiwindow management
- Operator-initiated page calls
- Multilingual application management (10 languages at the same time)
- Recipe management
- Data processing via Java script
- Storage of the application and logs on external application memory card in SD format or USB stick
- Management of serial printers, barcode readers

Architectures and communication

The Magelis GTO Optimum range is perfectly integrated in the MachineStruxure[™] (1) automation solutions offer, which helps machine manufacturers (OEMs) to quickly design optimized machines (in terms of cost and energy efficiency).

MachineStruxure[™] solutions are based on high performance control platforms and a single software package: SoMachine. SoMachine allows the development, commissioning and programming of machines. SoMachine version 3.1 allows programming of terminals in the Magelis GTO range using Vijeo Designer software.

Optimum Advanced Panels have been designed for PlantStruxureTM (2) and MachineStruxureTM (1) architectures as well as for Transparent Ready equipment (combination of Web and Ethernet TCP/IP technologies). Therefore, all panels with an Ethernet port feature a built-in FTP server for data file transfer and a Web Gate function for remote access to the application of the panel from a PC with an Internet browser.

Vijeo Designer also allows Magelis Advanced Panels to browse HTML pages and send e-mails.

Plant **Struxure**

Vijeo Designer configuration software

(1) For more information on the "MachineStruxure™" concept, please consult our catalogue "Automation solutions for industrial machines".

(2) For more information on the "PlantStruxure™" concept, please consult our website www.schneider-electric.com/Solutions/Process and Machines Management.

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Machine *F***truxure** 



Description: page 1/38

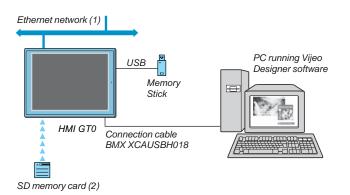
Connections:



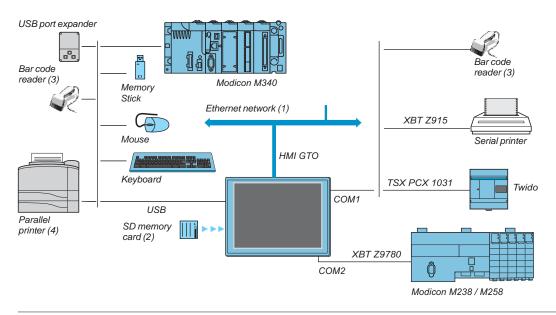
#### **Panel operating modes**

The following illustrations show the equipment that can be connected to Optimum Advanced Panels according to their two operating modes.

#### Edit mode



#### **Operating mode**



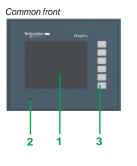
(1) With HMI GTO • 1 •.

- (2) Memory card, except HMI GTO1300/1310/2300.

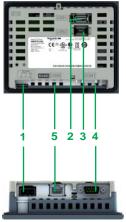
(3) Validated with DataLogic Gryphon bar code reader.
 (4) Validated with Hewlett Packard printer via USB/PIO converter.

Description:	References:	Connections:	Substitution:	
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Panels with 3.5" touch screen



#### Rear HMI GTO1300



Underside HMI GTO1300

### Description

#### Magelis HMI GTO1300 / 1310 Advanced Panels HMI GTO1300 and HMI GTO1310 panels have the following features on the front:

- 1 A touch screen for displaying synoptic views (3.5" colour TFT)
- 2 A multicolour indicator (green, orange and red) showing the panel's operating mode
- 3 Six function keys (F1, F2, F3, F4, F5 and F6)

#### The HMI GTO1300 panel has the following features on the rear and underside:

- 1 A removable screw terminal block for 24 V --- power supply
- 2 A type A USB host connector for connecting peripherals, transferring applications and Modicon M340 terminal port communication
- 3 A mini-B USB connector for application transfer
- 4 A 9-way male SUB-D connector for RS 232C serial link to PLCs (COM1)
- 5 An RJ45 connector for RS 485 serial link to PLCs (COM2)

#### Rear HMI GTO1310



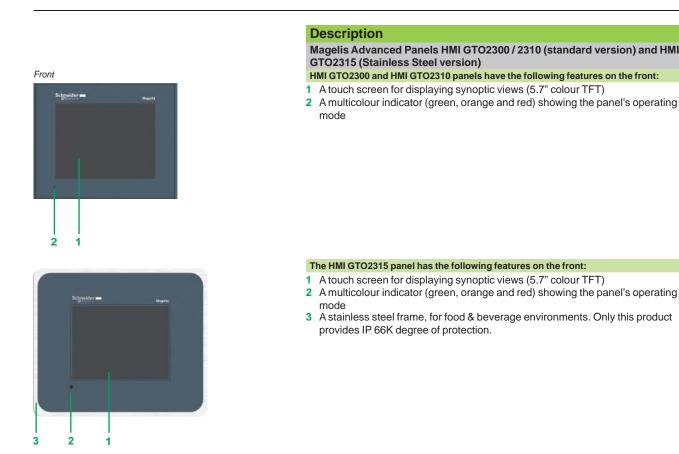
Underside HMI GTO1310

- The HMI GTO1310 panel has the following features on the rear and underside:
- 1 A removable screw terminal block for 24 V ---- power supply
- 2 A type A USB host connector for connecting peripherals, transferring applications and Modicon M340 terminal port communication
- 3 A mini-B USB connector for application transfer
- 6 An RJ45 connector for RS 232C or RS 485 serial link to PLCs (COM1)
- 7 An RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX

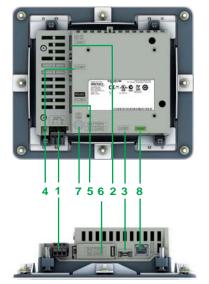
Presentation:	References:	Connections:	Substitution:	
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1/38		Schneider Electric		

## Description (continued)

Operator dialogue terminals Magelis[™] GTO Optimum Advanced Panels Panels with 5.7" touch screen, standard and Stainless Steel version



#### Rear HMI GT02315



Underside HMI GTO2315

#### All 3 of these panels have the following features on the rear and underside:

- 1 A removable screw terminal block for 24 V --- power supply
- 2 A type A USB host connector for connecting peripherals, transferring applications and Modicon M340 terminal port communication
- A mini-B USB connector for application transfer 3
- 4 A 9-way male SUB-D connector for RS 232C serial link to PLCs (COM1)
- 5 An RJ45 connector for RS 485 serial link (COM2)

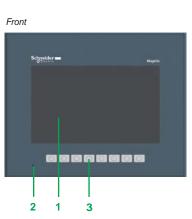
#### On HMI GTO2310 and HMI GTO2315 only:

- 6 A slot for SD memory card, with hinged cover
- LED indicating presence of the SD memory card 7
- 8 An RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX

Presentation:	References:	Connections:	Substitution:	
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### Schneider

Panels with 7.0" Wide and 7.5" touch screen



#### **Description**

#### Magelis Advanced Panels HMI GTO3510 / 4310 The HMI GTO3510 panel has the following features on the front:

1 A touch screen for displaying synoptic views (7.0" Wide colour TFT)

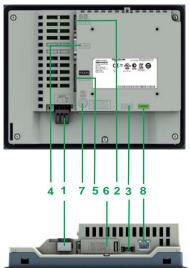
- 2 A multicolour indicator (green, orange and red) showing the panel's operating mode
- 3 Eight function keys (F1, F2, F3, F4, F5, F6, F7 and F8)

#### The HMI GTO4310 panel has the following features on the front:

- 1 A touch screen for displaying synoptic views (7.5" colour TFT)
- 2 A multicolour indicator (green, orange and red) showing the panel's operating mode



Rear



Underside

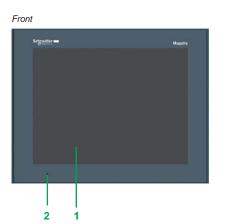
#### Both terminals have the following features on the rear and underside:

- 1 A removable screw terminal block for 24 V --- power supply
- 2 A type A USB host connector for connecting peripherals, transferring applications and Modicon M340 terminal port communication
- A mini-B USB connector for application transfer 3
- A 9-way male SUB-D connector for RS 232C serial link to PLCs (COM1) 4
- 5 An RJ45 connector for RS 485 serial link (COM2)
- 6 A slot for SD memory card, with hinged cover
- 7 LED indicating presence of the SD memory card
- 8 An RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX with an activity LED

Presentation:	References:	Connections:	Substitution:	
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## Description (continued)

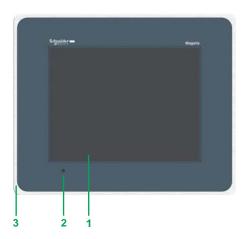
Operator dialogue terminals Magelis[™] GTO Optimum Advanced Panels Panels with 10.4" touch screen, standard and Stainless Steel version



### **Description**

Magelis Advanced Panels HMI GTO5310 (standard version) and HMI GTO5315 (Stainless Steel version) The HMI GTO5310 panel has the following features on the front:

- 1 A touch screen for displaying synoptic views (10.4" colour TFT)
- 2 A multicolour indicator (green, orange and red) showing the panel's operating mode

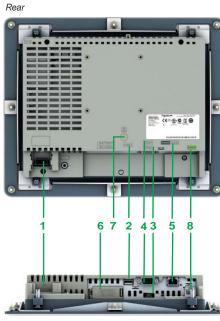


#### The HMI GTO5315 panel has the following features on the front:

1 A touch screen for displaying synoptic views (10.4" colour TFT)

- 2 A multicolour indicator (green, orange and red) showing the panel's operating mode
- 3 A stainless steel frame, for food & beverage environments. Only this product provides IP 66K degree of protection.





#### Underside

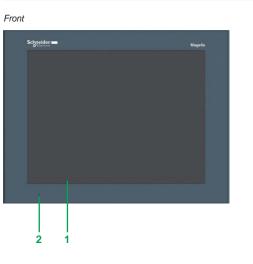
Presentation: page 1/34

	Both terminals have the following	features on the rear and underside:
--	-----------------------------------	-------------------------------------

- 1 A removable screw terminal block for the 24 V --- power supply
- A type A USB host connector for connecting peripherals, transferring applications 2 and Modicon M340 terminal port communication
- 3 A mini-B USB connector for application transfer
- 4 A 9-way male SUB-D connector for RS 232C serial link to PLCs (COM1)
- 5 An RJ45 connector for RS 485 serial link (COM2)
- A slot for SD memory card, with hinged cover 6
- 7 LED indicating presence of the SD memory card
- An RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX with an 8 activity LED

References:	Connections:	Substitution:	
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Operator dialogue terminals Magelis[™] GTO Optimum Advanced Panels Panels with 12.1" touch screen, standard and Stainless Steel version



#### Description

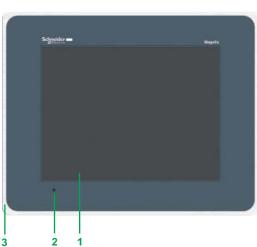
Magelis Advanced Panels HMI GTO6310 (standard version) and HMI GTO6315 (Stainless Steel version)

The HMI GTO6310 panel has the following features on the front:

1 A touch screen for displaying synoptic views (12.1" colour TFT) 2 A multicolour indicator (green, orange and red) showing the panel's operating mode

#### The HMI GTO6315 panel has the following features on the front:

- A touch screen for displaying synoptic views (12.1" colour TFT) 1
- 2 A multicolour indicator (green, orange and red) showing the panel's operating mode
- A stainless steel frame, for food & beverage environments. Only this product 3 provides IP 66K degree of protection.



## CC-8010 6 2 5 7 43 8 0 11-ma-1111

#### Both terminals have the following features on the rear and underside:

- 1 A removable screw terminal block for the 24 V ---- power supply
- 2 A type A USB host connector for connecting peripherals, transferring applications and Modicon M340 terminal port communication
- 3 A mini-B USB connector for application transfer
- 4 A 9-way male SUB-D connector for RS 232C serial link to PLCs (COM1)
- 5 An RJ45 connector for RS 485 serial link (COM2)
- A slot for SD memory card, with hinged cover 6
- 7 LED indicating presence of the SD memory card
- 8 An RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX with an activity LED

Underside

Rear

Presentation:	References:	Connections:	Substitution:	
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References

**Operator dialogue terminals** Magelis[™] GTO Optimum Advanced Panels Panels with 3.5" to 12.1" touch screen

Data entry method	Number	Application	r touch so Memory	Serial	Embedded	Reference	Weight
Data entry method	of ports	memory capacity	expansion by SD card	link	Ethernet	Reference	kg
3.5" QVGA TFT LCD	screen, 320	x 240 pixels					
Via touch screen + 6 function keys	2 USB	64 MB	No	1 COM 1 1 COM 2	-	HMI GTO1300	0.400
	2 USB	96 MB	No	1 COM 1	1	HMI GTO1310	0.400
5.7" QVGA TFT LCD	screen, 320	x 240 pixels					
Via touch screen	2 USB	64 MB	No	1 COM 1 1 COM 2	-	HMI GTO2300	0.800
	2 USB	96 MB	Yes (2)	1 COM 1 1 COM 2	1	HMI GTO2310	0.800
7.0" WVGA (Wide) T	FT LCD scre	en, 800 x 480	pixels				
Via touch screen + 8 function keys	2 USB	96 MB	Yes (2)	1 COM 1 1 COM 2	1	HMI GTO3510	1.200
7.5" VGA TFT LCD s	creen, 640 x	480 pixels					
Via touch screen	2 USB	96 MB	Yes (2)	1 COM 1 1 COM 2	1	HMI GTO4310	1.200
10.4" VGA TFT LCD	screen, 640	x 480 pixels					
Via touch screen	2 USB	96 MB	Yes (2)	1 COM 1 1 COM 2	1	HMI GTO5310	2.000
12.1" SVGA TFT LCE	) screen, 80	0 x 600 pixels	i				
Via touch screen	2 USB	96 MB	Yes (2)	1 COM 1 1 COM 2	1	HMI GTO6310	2.500
Optimum 24 V D	C torming	als with col	our touch	scroop	Stainlass	Stool vorsiou	• (1) (2)
Data entry method	Number of ports	Application memory capacity	Memory expansion by SD card	Serial link	Embedded Ethernet	Reference	Weight kg
5.7" QVGA screen, 3	20 x 240 pix	els, with stair	nless steel f	rame (IP 6	6K)		
Via touch screen	2 USB	96 MB	Yes (2)	1 COM 1 1 COM 2	1	HMI GTO2315	1.200
10.4" VGA screen, 64	40 x 480 pixe	els. with stain	less steel fr	ame (IP 66	5K)		
Via touch screen	2 USB	96 MB	Yes (2)	1 COM 1 1 COM 2	1	HMI GTO5315	2.500
12.1" SVGA screen,	800 x 600 pi	xels, with stai	inless steel	frame (IP	66K)		

HMI GTO2315	1.200

1

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Connections:

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Presentation:

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## **Operator dialogue terminals**

Standard Advanced Panels Magelis[™] GT, GK, GH and GTW

### Presentation



Touch screen terminals with monochrome or colour screen in 6 sizes from 3.8" to 15"

The Magelis Standard Advanced Panels touch screen terminals offer consists of: ■ A range of 20 touch screen terminals (XBT GT) available with a wide choice of screen sizes (3.8", 5.7", 7.5", 10.4" 12.1" and 15") in various versions (monochrome, colour, STN or TFT)

An XBT GT 5.7" terminal (XBT GT 2930) equipped with a screen featuring an anti-reflection coating and a backlit display that is twice as intense for applications in brightly-lit environments, in particular those which are exposed to sunlight
 A range of 3 keypad/touch screen terminals (XBT GK), sizes 5.7" and 10.4"

(monochrome, colour) ■ A range of touch screen/open terminals (GTW), sizes 10.4", 12" and 15", with

Windows XP Embedded operating system for open access to new automation functions

■ A portable touch screen terminal (XBT GH) with 5.7" colour screen and safety devices (Emergency stop, enabling grip switch, etc.)

#### Operation

These terminals are available in one of two function levels:

 Optimum level (without memory expansion and without fieldbus connection): XBT GT 3.8" and XBT GT 5.7" (Blue mode)

Multifunction level for the rest of the range: XBT GT/GK/GH/GTW (5.7", 7.5", 10.4", 12.1" and 15")

Multifunction Magelis Standard Advanced Panels terminals feature new information and communication technologies which, depending on the model, include:

High level of communication (embedded Ethernet, multilink, Web server and FTP)
 External storage of data (Compact Flash memory card and USB memory stick) for

storing production data and backing up applications

 Multimedia data with integrated image and sound management (digital or analogue camera)

■ Management of peripherals: Printers, bar code readers, loudspeakers, etc.



Standard Advanced Panels Magelis[™] GT, GK, GH and GTW

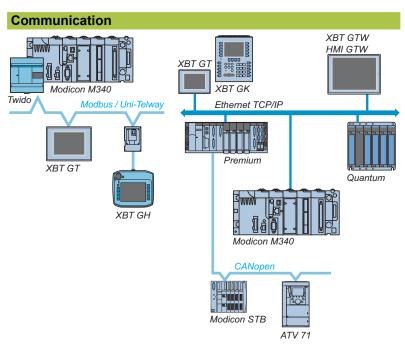


#### Configuration

Magelis Standard Advanced Panels can be configured using Vijeo Designer software in a Windows XP Professional and Windows 7 Professional 32/64-bit environment.

Vijeo Designer software boasts an advanced user interface with many configurable windows, enabling projects to be developed quickly and easily. This version can process composite video signals from a camera or camcorder. See page 4/8.

Display of a video sequence



Magelis Standard Advanced Panels communicate with PLCs via one or two integrated serial links, using communication protocols:

- Schneider Electric (Uni-TE, Modbus)
- Third-party: Mitsubishi Electric, Omron, Allen-Bradley and Siemens

Magelis multifunction terminals can be connected, depending on the model, to Ethernet TCP/IP networks using Modbus TCP or third party protocols, and to fieldbuses (FIPWAY, Modbus Plus, Device Net, PROFIBUS DP).

Description:	References:	Accessories:	Connections:	
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## **Operator dialogue terminals**

Standard Advanced Panels Magelis[™] GT, GK, GH and GTW

### Functions

- Magelis Standard Advanced Panels offer the following functions:
- Display of animated mimics with 8 types of animation (pressing the touch panel,
- colour changes, filling, movement, rotation, size, visibility and value display)
- Control and modification of numeric or alphanumeric variables
- Display of current date and time
- Real-time and trending curves with log
- Alarm display, alarm log and management of alarm groups
- Multiwindow management
- Page calls initiated by the operator
- Multilingual application management (10 languages at the same time)
- Recipe management
- Data processing via Java script

■ Storage of the application and logs on external Compact Flash application memory card (multifunction range) or USB key

- Serial printer and bar code reader management (multifunction range)
- Sound messages management (multifunction range)

Composite video signal management from camera or camcorder on XBT GT and digital video signal (Webcam) management on Magelis GTW

Magelis Standard Advanced Panels have been designed for Transparent Ready architectures and equipment (combination of Web and Ethernet TCP/IP technologies). Therefore, all terminals with an Ethernet port feature a built-in FTP server for data file transfer and a Web Gate function for remote access to the application of the terminal from a PC with an Internet browser.

The latest version of Vijeo Designer thus allows Magelis Standard Advanced Panels to browse HTML pages and send e-mails.

The flexibility of Windows XP Embedded on touch screen/open Standard Advanced Panels Magelis GTW terminals simultaneously allows:

- □ The running of a Vijeo Designer application
- The use of Internet Explorer or Office Readers (.pdf, .doc, .xls, and .ppt documents)

Accessories:

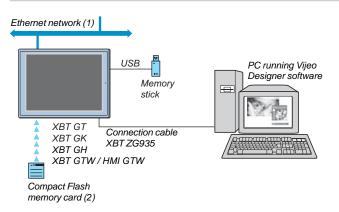
Description:

Magelis[™] GT, GK, GH and GTW

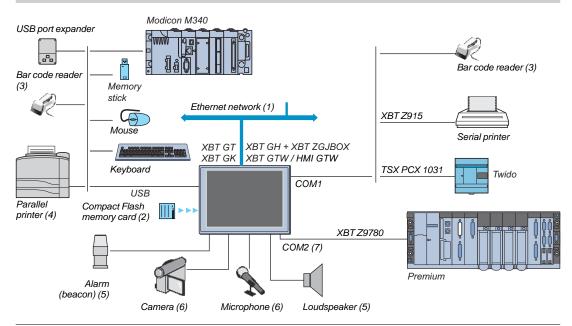
#### **Panel operating modes**

The following illustrations show the equipment that can be connected to Magelis Standard Advanced Panels according to their two operating modes.

#### Edit mode



#### **Operating mode**



(1) With XBT GT •• 30/XBT GT •• 40/XBT GK •• 30/XBT GTW •• •/HMI GTW •• • and XBT GH246 ••.

- (2) Memory card, except XBT GT11/13/2110.
- (3) Validated with DataLogic Gryphon bar code reader.
- (4) Validated with Hewlett Packard printer via USB/PIO converter.
- (5) With XBT GT/GK/GTW 7.5" screen min. and HMI GTW.
  (6) With multimedia XBT GT 7.5" to 15": XBT GT● 340.
- (7) With XBT GT and XBT GK 5.7" screen min.

#### Improve environmental resistance with Conformal Coating

The Conformal Coating service offer consists of varnishing the electronic cards to prolong the service life of the terminals and enable them to be used in corrosive environments. The varnishing increases resistance to condensation, dusty atmospheres and chemical corrosion (sulphurous and halogenous atmospheres).

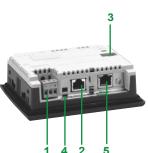
For further information on this service offer, please consult our Customer Care Centre.

Description:	References:	Accessories:	Connections:	
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Magelis[™] XBT GT with 3.8" screen

1





#### Description Standard Advanced Panels Magelis Optimum XBT GT1105/1135/1335

#### Front panel

The front panels of Standard Advanced Panels Magelis Optimum XBT GT1105/1135/ 1335 comprise:

- 1 A touch screen for displaying synoptic views (3.8" amber or red mode monochrome, colour TFT)
- 2 A control LED indicating the operating mode of the terminal

#### Rear panel

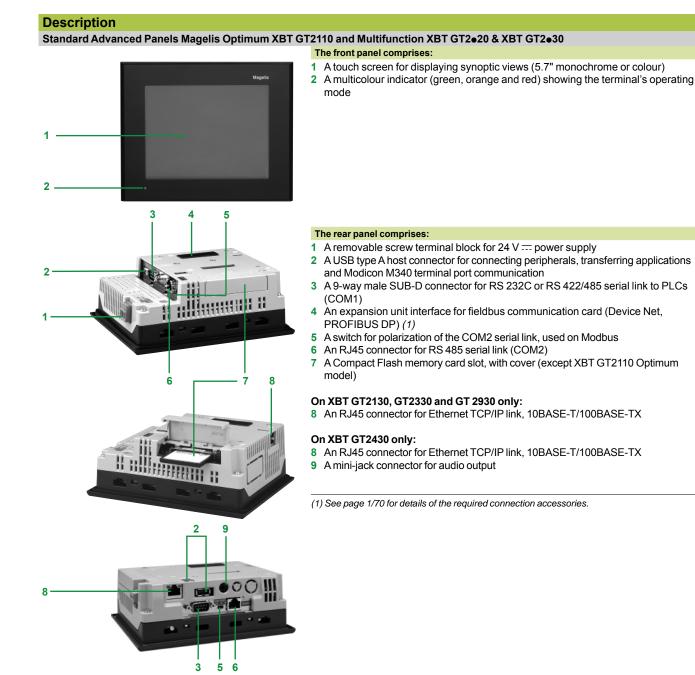
The rear panels of Standard Advanced Panels Magelis Optimum XBT GT1105/1135/ 1335 comprise:

- 1 A removable screw terminal block for 24 V --- power supply
- 2 An RJ45 connector for RS 232C or RS 485 serial link connection to PLCs (COM1)
- 3 A USB type A host connector for peripheral connection, application transfer and Modicon M340 terminal port communication
- 4 A switch for polarization of the serial link, used on RS 485 Modbus

#### On XBT GT1135/1335 only

5 An RJ45 connector for Ethernet TCP/IP link, 10/100BASE-T

Standard Advanced Panels Magelis[™] XBT GT with 5.7" screen

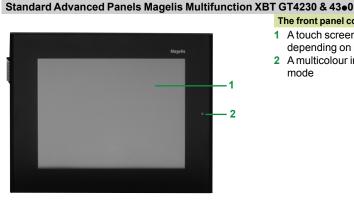


Presentation:	References:	Accessories:	Connections:	
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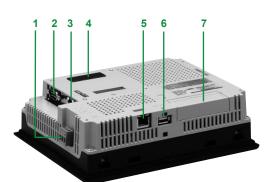
Description

# **Operator dialogue terminals** Standard Advanced Panels

Magelis[™] XBT GT with 7.5" screen



- The front panel comprises: 1 A touch screen for displaying synoptic views (7.5" colour STN or 7.5" colour TFT, depending on model)
- 2 A multicolour indicator (green, orange and red) showing the terminal's operating mode



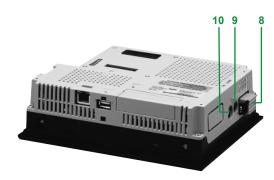
#### The rear panel comprises:

- 1 A removable screw terminal block for 24 V --- power supply
- 2 A 9-way male SUB-D connector for RS 232C or RS 422/485 serial link to PLCs (COM1)
- An RJ45 connector for RS 485 (COM2) with switch for polarization of the link used 3 on Modbus
- An expansion unit interface for fieldbus communication card (Device Net, 4 PROFIBUS DP) (1)
- An RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX, with an 5 activity LED
- 6 A USB type A host connector for connecting peripherals, transferring applications and Modicon M340 terminal port communication
- 7 A slot for Compact Flash memory card, with hinged cover
- 8 A removable I/O connector, 12 spring terminals for loudspeaker connection, one input (reset) and 3 outputs (alarm, buzzer, run)



9 A mini-jack connector for connecting a microphone 10 An RCA connector for connecting a digital or analogue video camera (NTSC/PAL)

(1) See page 1/70 for details of the required connection accessories.



Presentation: page 1/44

Schneider

Standard Advanced Panels Magelis[™] XBT GT with 10.4" screen

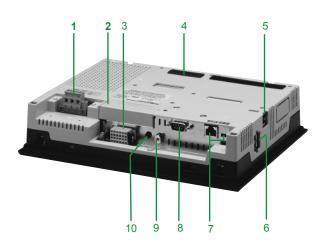
#### Description

Standard Advanced Panels Magelis Multifunction XBT GT5230, XBT GT53•0 and XBT GT5430



#### The front panel comprises:

- A touch screen for displaying synoptic views (10.4" colour STN or 10.4" colour TFT, depending on model)
- 2 A multicolour indicator (green, orange and red) showing the terminal's operating mode



#### The rear panel comprises:

- A removable screw terminal block for 24 V ---- power supply
- 2 A slot for Compact Flash memory card, with hinged cover
- 3 A removable I/O connector (1), 12 spring terminals for loudspeaker connection, one input (reset) and 3 outputs (alarm, buzzer, run)
- 4 An expansion unit interface for fieldbus communication card (Device Net, PROFIBUS DP) (2)
- 5 An RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX, with an activity LED
- 6 Two USB type A host connectors for connecting peripherals, transferring applications and Modicon M340 terminal port communication
- 7 An RJ45 connector for RS 485 (COM2) with switch for polarization of the link used on Modbus
- 8 A 9-way male SUB-D connector for RS 232C or RS 422/485 serial link to PLCs (COM1)

#### On XBT GT5340 only:

 9 A mini-jack connector for connecting a microphone
 10 An RCA connector for connecting a digital or analogue video camera (NTSC/PAL)

(1) On model XBT GT5230, this removable terminal block is located on the rear panel of the terminal.

(2) See page 1/70 for details of the required connection accessories.

Presentation:	References:	Accessories:	Connections:	
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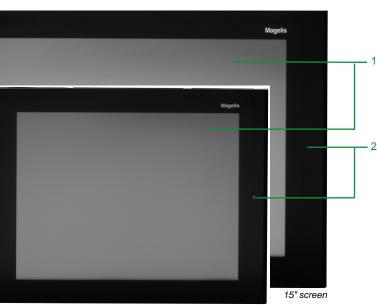
#### Schneider Electric

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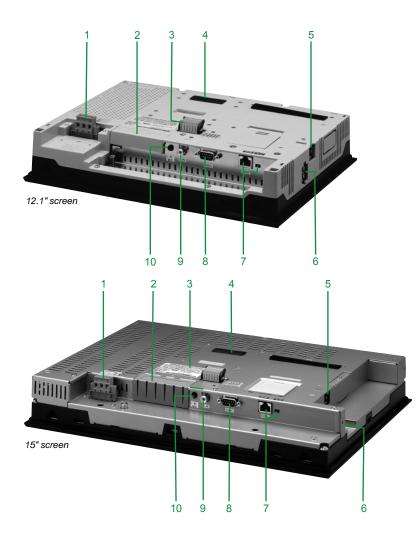
Magelis[™] XBT GT with 12.1" or 15" screen

### Description

Standard Advanced Panels Magelis Multifunction XBT GT63•0 & XBT GT7340



12.1" screen



#### The front panel comprises:

- 1 A touch screen for displaying synoptic views (12.1" or 15" colour TFT, depending on model)
- 2 A multicolour indicator (green, orange and red) showing the terminal's operating mode

#### The rear panel comprises:

- 1 A removable screw terminal block for 24 V .... power supply
- 2 A slot for Compact Flash memory card, with hinged cover
- 3 A removable I/O connector, 12 spring terminals for loudspeaker connection, one input (reset) and 3 outputs (alarm, buzzer, run)
- 4 An expansion unit interface for fieldbus communication card (Device Net, PROFIBUS DP) (1)
- 5 An RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX, with an activity LED
- Two USB type A host connectors for connecting 6 peripherals, transferring applications and Modicon M340 terminal port communication
- An RJ45 connector for RS 485 (COM2) with switch 7 for polarization of the link used on Modbus
- A 9-way male SUB-D connector for RS 232C or 8 RS 422/485 serial link to PLCs (COM1)

#### On XBT GT6340 and XBT GT7340 only:

9 A mini-jack connector for connecting a microphone 10 An RCA connector for connecting a digital or analogue video camera (NTSC/PAL)

(1) See page 1/70 for details of the required connection accessories.

Presentation:	References:	Accessories:	Connections:	
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A touch screen for displaying synoptic views (5.7" monochrome or colour),

14 dynamic keys (Ri) with 3-colour LED (green, orange, red)

A multicolour indicator (green, orange and red) showing the terminal's operating

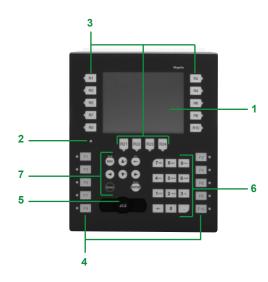
Magelis[™] XBT GK with 5.7" screen

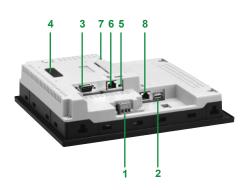
configurable using Vijeo Designer

### **Description**

#### Standard Advanced Panels Magelis Multifunction XBT GK2120 & XBT GK2330 The front panel comprises:

2 mode 3





10 static keys (Fi) with 3-colour LED (green, orange, red) and customizable labels 4 5 An industrial pointer " (20)", configurable using Vijeo Designer 12 alphanumeric keys (0...9, +/-, .), which can be pressed several times in 6 succession to access characters (A...Z) 8 service keys: 7 Delete character to left of cursor Move cursor to right or left in an entry field Confirm a selection or entry Access the second of the dual key functions Increment or decrement a numeric field value or activate the next or previous object Exit entry mode Display the configuration menu of the terminal Copy the current screen Delete entire field

#### The rear panel comprises:

- 1 A removable screw terminal block for 24 V --- power supply
- 2 A USB type A host connector for connecting peripherals, transferring applications and Modicon M340 terminal port communication
- A 9-way male SUB-D connector for RS 232C or RS 422/485 serial link to PLCs 3 (COM1)
- An expansion unit interface for fieldbus communication card (Device Net, 4 PROFIBUS DP) (1)
- 5
- A switch for polarization of the COM2 serial link, used on Modbus 6
- An RJ45 connector for RS 485 serial link (COM2)
- 7 A slot for Compact Flash memory card, with cover

#### On GK2330 only:

8 An RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX

(1) See page 1/70 for details of the required connection accessories.

1

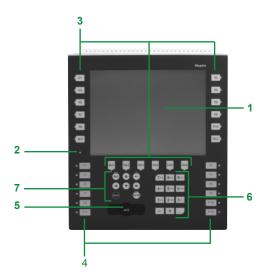
### Schneider Belectric

Description

## **Operator dialogue terminals** Standard Advanced Panels

Magelis[™] XBT GK with 10.4" screen

### Standard Advanced Panels Magelis Multifunction XBT GK5330



- The front panel comprises:
- 1 A touch screen for displaying synoptic views (10.4" colour TFT), configurable using Vijeo Designer
- A multicolour indicator (green, orange and red) showing the terminal's operating 2 mode
- 3 18 dynamic keys (Ri) with 3-colour LED (green, orange, red)
- 4 12 static keys (Fi) with 3-colour LED (green, orange, red) and customizable labels An industrial pointer " 2 ", configurable using Vijeo Designer
- 12 alphanumeric keys (0...9, +/-, .), which can be pressed several times in 6 succession to access characters (A...Z)
- 7 8 service keys:

5

- Delete character to left of cursor
- Move cursor to right or left in an entry field
- ENTER Confirm a selection or entry
  - Access the second of the dual key functions
  - Increment or decrement a numeric field value or activate the next or previous object
  - Exit entry mode
  - Display the configuration menu of the terminal
  - Copy the current screen ENTER
  - Delete entire field

#### The rear panel comprises:

4

- 1 A removable screw terminal block for 24 V --- power supply
- 2 A slot for Compact Flash memory card, with hinged cover
- 3 A removable I/O connector, 12 spring terminals for loudspeaker connection, one input (reset) and 3 outputs (alarm, buzzer, run)
  - An expansion unit interface for fieldbus communication card (Device Net, PROFIBUS DP) (1)
- 5 An RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX with an activity LED
- Two USB type A host connectors for connecting peripherals, transferring 6 applications and Modicon M340 terminal port communication
- 7 An RJ45 connector for RS 485 (COM2) with switch for polarization of the link used on Modbus
- A 9-way male SUB-D connector for RS 232C or RS 422/485 serial link to PLCs 8 (COM1)

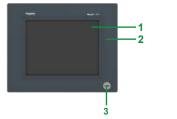
(1) See page 1/70 for details of the required connection accessories.

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## Description (continued)

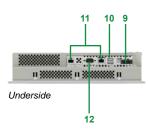
## **Operator dialogue terminals**

Standard Advanced Panels Magelis[™] GTW with 10.4" or 12" screen

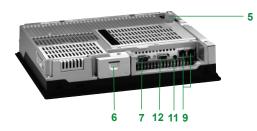


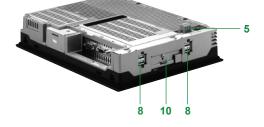


Rear panel









### Description

#### Standard Advanced Panel Magelis Multifunction 10.4" HMI GTW 5354 Front panel screen

- The touch screen front panel of terminal HMI GTW 5354 comprises:
- 1 A 10.4" SVGA active matrix colour TFT LCD screen (maximum display area 800 x 600 points) with high-definition analogue touch panel
- 2 An aluminum alloy front panel with IP 65 membrane
- 3 A USB 2.0 port (1 A max.) with screw-on protective cover

#### Rear panel

The rear panel of terminal HMI GTW 5354 comprises:

- 4 A battery
- 5 2 pushbuttons: 1 for the power supply and 1 for resetting
- 6 A slot for the Compact Flash memory card (SLC technology) ≥ 2 GB specifically for the operating system
- 7 An SD card reader for user data SD card optional (1)
- 8 4 status and power supply LEDs

#### Underside

All the connection elements can be accessed from the rear of the terminal, with the following elements located on the lower face:

- 9 A removable screw terminal block for connecting 24 V --- power supply 2 slots for Compact Flash card, one containing the operating system and integrated software and the other free
- 10 2 USB 2.0 ports
- 11 2 RJ45 connectors for Ethernet link, 10/100 BASE-TX/1 GB
- 12 One 9-way male SUB-D connector marked COM1 for RS 232 serial link

#### Standard Advanced Panel Magelis Multifunction 12" XBT GTW 652 Front panel screen

The touch screen front panel of terminal XBT GTW 652 comprises:

- 1 A 12" SVGA active matrix colour TFT LCD screen (maximum display area 800 x 600 points) with high-definition analogue touch panel
- 2 An aluminum alloy front panel with IP 65 membrane (mounted on a hardened steel frame)
- 3 2 LEDs marked:
- □ ON (green), terminal switched on
- DISK (green), accessing IDE bus (accessing Compact Flash memory, etc.)
- 4 A USB port (dust and damp proof)

#### Underside and side panels

All expansion slots and connection elements can be accessed from the rear of the terminal, with the following elements located on the lower face:

- 5 A removable screw terminal block for connecting 24 V --- power supply
- 6 A slot for the Compact Flash memory card containing the operating system and integrated software
- 7 A 25-way female SUB-D connector marked RAS for product monitoring and diagnostics
- 8 4 USB 2.0 ports
- 9 2 RJ45 connectors for Ethernet 10/100 Mbps and Ethernet 10/100 Base-TX/1 GB link
- **10** A slot for additional PCMCIA type II cards
- 11 A mini-jack connector for loudspeaker
- 12A 9-way male SUB-D connector marked COM1 for RS 232 serial link

(1) To be ordered separately (see page 3/30).

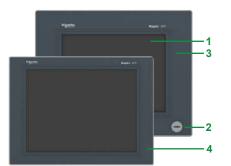
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Accessories

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## **Operator dialogue terminals**

Standard Advanced Panels Magelis[™] GTW with 15" screen Software pre-installed on Magelis XBT GTW/HMI GTW



15" front panels, stainless steel and aluminium

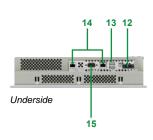
#### Description

Standard Advanced Panels Magelis Multifunction 15" HMI GTW 7354 and 73545 Front panel screen

- The touch screen front panel of terminal HMI GTW 7354/73545 comprises:
- 1 A 15" XGA active matrix colour TFT LCD screen (maximum display area 1024 x 768 points) with high-definition analogue touch panel
- 2 A USB 2.0 port (1 Å max.) with screw-on protective cover (only available for aluminium version). Captive protective cover option also available (1)
- 3 An aluminum alloy front panel with IP 65 membrane
- or
- 4 A stainless steel 304 "Scotch brite[®]" brushed finish front panel enabling an IP 65 degree of protection of the front panel when mounted on a panel or an enclosure door. Mounted on 1.6...10 mm thick support using screw fasteners supplied (2). Cleaning simplified due to absence of USB port on front panel (conforms to food and beverage processing machines standard EN 1672-2). Version fitted with specific seals (standard FDA 21 CFR 177.206)

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Rear panel



#### Rear panel

The rear panel of HMI GTW 7354 and HMI GTW 73545 terminals comprise:

- 5 A battery
- 6 2 pushbuttons: 1 for the power supply and 1 for resetting
- 7 A slot for the Compact Flash memory card (SLC technology) ≥ 2 GB specifically for the operating system
- 8 An SD card reader for user data SD card optional (1)
- 9 4 status and power supply LEDs

#### Underside

All the connection elements can be accessed from the rear of the terminal, with the following elements located on the lower face:

- 12 A removable screw terminal block for connecting 24 V --- power supply 13 2 USB 2.0 ports (1 A max.)
- 14 2 RJ45 connectors for Ethernet link, 10/100 BASE-TX/1 GB
- 15 One 9-way male SUB-D connector marked COM1 for RS 232 serial link

#### Pre-installed software

Magelis XBT GTW and HMI GTW terminals have the following software installed on the Compact Flash system card, in addition to Windows XP Embedded:

- Vijeo Designer Run-Time, unlimited use, supplied with activation code
- Vijeo Citect Web Client dll
- Internet Explorer
- Acrobat Reader
- Word/Excel/PowerPoint viewer
- Framework.Net

(1) To be ordered separately (see page 3/30).

(2) For installation, see the "Product data sheet" on our website www.schneider-electric.com.

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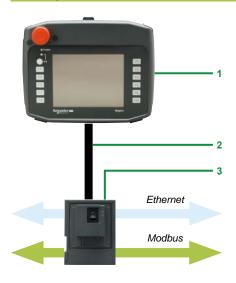
Schneider

## Description (continued)

## **Operator dialogue terminals**

Standard Advanced Panels Magelis[™] XBT GH with 5.7" screen Junction box XBT ZGJBOX, cables XBT ZGHL

#### **Description**



#### Overview

Magelis XBT GH2460 1 and XBTGH2460B (without Emergency stop button) are portable graphic display terminals with a 5.7" touch screen. They enable connection on the Ethernet or Modbus network at any point where an XBT ZGJBOX junction box 3 is installed. 1

The connection between the terminal and junction box is established using an XBT ZGHL $\bullet e$  2 cable, which is available in various lengths (1).







#### Standard Advanced Panels Magelis Multifunction XBT GH2460 and XBT GH2460B The front panel comprises:

- 1 A touch screen for displaying synoptic views (5.7" colour), configurable using Vijeo Designer
- 2 A multicolour indicator (green, orange and red) showing the terminal's operating mode
- 3 11 function keys Fi
- 4 An operating key with O.P. LED (green) for touch screen validation
- 5 An emergency stop button with 2 NC safety contacts and 1 NO auxiliary contact for stopping the machine if necessary (model XBT GH2460 only)

#### The rear panel comprises:

- 6 A USB type A host connector for peripheral connection and application transfer (with protective cover)
- 7 A slot for a Compact Flash memory card (also protected by the cover)
- 8 A key switch for switching the Magelis XBT GH on/off
- **9** A 3-position enabling grip switch for protecting the operator (the OK signal is only sent when the grip switch is in the centre position)
- 10 A 24-way connector for connecting the 3 m or 10 m flexible interface cable between the Magelis XBT GH and the junction box
- 11 A stylus for the touch screen
- 12 Two holes for inserting re-usable labels in the function keys

(1) To be ordered separately (see page 1/60).

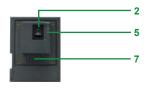


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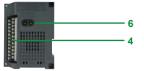
Magelis[™] XBT GH with 5.7" screen Junction box XBT ZGJBOX, cables XBT ZGHL

### **Description** (continued)

1









### XBT ZGJBOX junction box for XBT GH

#### It comprises:

- A 9-way SUB-D connector for RS 232C or RS 422/485 serial link to PLCs (COM1) 1
- 2 An ON/OFF switch for the junction box
- An RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX 3 4
  - A 24-way screw terminal block for connecting 24 V  $\overline{\ldots}$  power supply and output signals from the Magelis XBT GH terminal
- An LED indicating the status of the link with the Magelis XBT GH, 3 colours (green, 5 orange and red)
- 2 thumbwheels for configuring the station number on the junction box 6
- A 32-way connector for connecting the Magelis XBT GH terminal using flexible 7 cable (XBT ZGHL)

#### Flexible cables XBT ZGHL

For connecting the Magelis XBT GH terminals to their XBT ZGJBOX junction boxes.

- 4 cable lengths are available:
- 3 m, cable XBT ZGHL3
- 5 m, cable XBT ZGHL5
- 10 m, cable XBT ZGHL10

- 20 m, cable XBT ZGHL20 with the following limitations applying to the junction box: no RS 232C serial link, an isolation box cannot be used and a 24 V --- supply voltage tolerance of approximately 10%.



Accessories:

ons:



# Operator dialogue terminals Standard Advanced Panels Magelis[™] XBT GT

Monochrome touch screen terminals (1)



XBT GT1105/1135



XBT GT21•0/2220/2330



XBT GT4230/43•0



XBT GT53•0



XBT GT63•0



XBT GT7340

		n termina					
Type of screen	Number of ports	Application memory capacity	Compact Flash memory	Composite video input		Reference	Weight kg
Optimum, 3.8" QVGA	Ascreen						
STN	1 COM1	32 MB	No	No	-	XBT GT1105	-
Amber or red	1 USB				1	XBT GT1135	
Optimum, 5.7" QVGA	Ascreen						
STN Blue mode	1 COM1 1 COM2	16 MB	No	No	-	XBT GT2110	1.000
Maddifference 1 and 5 70 O	1 USB						
Multifunction, 5.7" Q	1 COM1	16 MB	Yes	No		XBT GT2120	1.000
Black and white	1 COM2 1 USB		165	NO	- 1	XBT GT2120	1.000
Colour touch sci	reen termi	inals (1)					
Type of screen	Number of ports	Application memory capacity	Compact Flash memory	Composite video input		Reference	Weight kg
Optimum, 3.8" QVGA							
TFT	1 COM1 1 USB	32 MB	No	No	1	XBT GT1335	1.000
Multifunction, 5.7" Q	VGA screen						
STN	1 COM1 1 COM2 1 USB	16 MB	Yes	No	-	XBT GT2220	1.000
TFT	1 COM1 1 COM2 1 USB	16 MB	Yes	No	1	XBT GT2330	1.000
TFT High Brightness	1 COM1 1 COM2 1 USB	16 MB	Yes	No	1	XBT GT2930	1.000
Multifunction, 5.7" V	GA screen						
TFT	1 COM1 1 COM2 2 USB	32 MB	Yes	No	1	XBT GT2430	-
Multifunction, 7.5" V	GA screen						
STN	1 COM1 1 COM2 1 USB	32 MB	Yes	No	1	XBT GT4230	1.800
TFT	1 COM1	32 MB	Yes	No	1	XBT GT4330	1.800
	1 COM2 1 USB	02		Yes	1	XBT GT4340	1.800
Multifunction, 10.4"	VGA screen						
STN	1 COM1 1 COM2 2 USB	32 MB	Yes	No	1	XBT GT5230	3.000
TFT	1 COM1	32 MB	Yes	No	1	XBT GT5330	2.500
	1 COM2 2 USB		100	Yes	1	XBT GT5340	2.500
Multifunction, 10.4"	SVGA scree	n					
TFT	1 COM1 1 COM2 2 USB	32 MB	Yes	No	1	XBT GT5430	2.500
Multifunction, 12.1"	SVGA scree	n					
TFT	1 COM1	32 MB	Yes	No	1	XBT GT6330	3.000
	1 COM2 2 USB			Yes	1	XBT GT6340	3.000
Multifunction, 15" XC	GA screen						
TFT	1 COM1 1 COM2 2 USB	32 MB	Yes	Yes	1	XBT GT7340	5.600

(1) Fixing kit (screw clips), locking device for USB connectors (except **XBT GT 11=0**) and instruction sheet included with terminals. Setup documentation for XBT GT terminals is included in electronic format with Vijeo Designer configuration software (see page 4/13).

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# **Operator dialogue terminals** Standard Advanced Panels Magelis[™] XBT GK, XBT GH



XBT GK2120/2330



XBT GK5330



XBT GH2460



XBT ZGJBOX XBT ZGHL.

Keypad/touch so	creen tern	ninals (1)					
Type of screen	Number of ports	Application memory capacity	Compact Flash memory	Video input	Number of Ethernet ports	Reference	Weight kg
Multifunction, 5.7" se	creen						
STN Black and white	1 COM1 1 COM2 1 USB	32 MB	Yes	No	-	XBT GK2120	-
Multifunction, 5.7" se	creen						
TFT Colour mode	1 COM1 1 COM2 1 USB	32 MB	Yes	No	1	XBT GK2330	-
Multifunction, 10.4"	screen						
TFT Colour mode	1 COM1 1 COM2 2 USB	32 MB	Yes	No	1	XBT GK5330	_

Portable touch so	reen ter	minals					
Type of front panel	Number of ports	Application memory capacity	Compact Flash memory	Video input	Number of Ethernet ports	Reference	Weight kg
Multifunction, 5.7" sci	reen						
TFT colour mode screen and Emergency stop button	1 COM1 1 USB	32 MB	Yes	No	1	XBT GH2460 (2)	-
TFT colour mode screen	1 COM1 1 USB	32 MB	Yes	No	1	XBT GH2460B (2)	_

Connection compone	nts			
Description	Usage	Length	Reference	Weight kg
Junction box for XBT GH	Specifically for the XBT GH terminal, it enables: 24 V power supply to XBT GH terminal Connection of various safety inputs/outputs Connection on multiprotocol serial link (9-way SUB-D) or Ethernet TCP/IP (RJ45) Can be mounted on 35 mm ur rail	-	XBT ZGJBOX (2) (3)	-
Interface cable for XBT GH	For connecting XBT GH terminal to junction box XBT ZGJBOX	3 m	XBT ZGHL3	-
		5 m	XBT ZGHL5	-
		10 m	XBT ZGHL10	-
		20 m	XBT ZGHL20 (4)	

(1) Fixing kit (spring clips), locking device for USB connectors, customizable label sheets and instruction sheet included with terminals.

(2) The XBT GH terminal is connected to junction box XBT ZGJBOX using le cable XBT ZGHL., to be ordered separately

(see table below).

(3) A junction box is required at each XBT GH terminal connection point.

(4) With this cable, the following limitations apply to the junction box:

- no RS 232C serial link

- an isolation box cannot be used - 24 --- supply voltage tolerance of approximately 10%

Description:
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Schneider Belectric

Presentation:

input

Number of

Ethernet

ports

Reference

Application Secondary Video

storage

device

memory

capacity

Magelis[™] GTW with 10.4", 12" or 15" screen



on primary storage device kg Multifunction, 10.4" screen TFT 1 COM1 2 GB SD No 2 HMI GTW5354 4.100 CF card for card ≥ 4 GB 3 USB system and application HMI GTW5354 Multifunction, 12" screen 1 COM1 XBT GTW652 TFT 2 GB CF No 2 3.800 5 USB CF card for card ≥ 1 GB system and application Multifunction, 15" screen XBT GTW652 TFT 1 COM1 2 GB SD No 2 HMI GTW7354 6.100 3 USB CF card for card ≥ 4 GB system and application 1 COM1 **HMI GTW73545** 6.300 2 GB SD 2 No CF card for 2 USB card≥4 GB

Open touch screen terminals (1)

Number

of ports

Type of screen

HMI GTW7354

e

(1) Fixing kit (screw clips), locking device for USB connectors and instruction sheet included with terminals. Setup documentation for GTW terminals is included in electronic format with Vijeo Designer configuration software (see page 4/13).

system and application

Presentation:	Description:	Accessories:	Connections:	
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Weight

References

Operator dialogue terminals Magelis[™] Advanced Panels Separate parts for terminals Magelis GT/GTO/GK/GH/GTW

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XBTZGM●●●

XBTZGM25

Description	Characteristics	Compatible with terminals	Reference	Weight kg
Compact Flash nemory cards	128 MB, blank	XBT except XBT GT1●●●/GT2110	XBT ZGM128	0.050
licitory cards	256 MB, blank	and XBT GTW	XBT ZGM256	0.050
	512 MB, blank		MPC YN0 0CFE 00N	0.050
	1 GB, blank		MPC YN0 0CF1 00N	-
	2 GB, blank	XBT except XBT GT1••• / GT2110	MPC YN0 0CF2 00N	-
	4 GB, blank	XBT GTW only	MPC YN0 0CF4 00N	_
SD memory card	4 GB, blank	HMI GTO and HMI GTW only	HMI ZSD4G	-
Maintenance kits	Includes fixings and seals for panel mounting	MPC ST1 1NeJ 00T (8.4" screen)	MPC YK1 0MNT KIT	
		MPC ST2 1NeJ20e (12" screen)	MPC YK2 0MNT KIT	_
		MPC ST5 2NDJ 10 (15" screen)	MPC YK5 0MNT KIT	_
Protective sheets	_	XBT GT1105 / GT1135 / GT1335	XBT ZG60	_
(5 peel-off sheets)		XBT GT21•0 / GT2220 / GT2•30	XBT ZG62	0.200
		XBT GT4230 / GT43•0	XBT ZG64	0.200
		XBT GT53•0 / XBT GT54•0	XBT ZG65	0.200
		XBT GT5230 / GT63•0	XBT ZG66	0.200
		XBT GK 2000 / GH2460	XBT ZG68	_
		XBT GK 5330	XBT ZG69	_
		XBT GT7340 / HMI GTW 7353	MPC YK5 0SPS KIT	0.200
		XBT GTW652	MPC YK2 0SPS KIT	_
		HMI GTO1300 / 1310	HMI ZG60	_
		HMI GTO2300 / 2310 / 2315	HMI ZG62	_
		HMI GTO3510	HMI ZG63	_
		HMI GTO4310	HMI ZG64	_
		HMI GTO5310 / 5315	HMI ZG65	_
		HMI GTO6310 / 6315	HMI ZG66	-
Plastic protective		XBT GT2•••	XBT ZG70	_
covers Sold in lots of 5		XBT GT53••	XBT ZG71	
Plastic covers for harsh environments	-	HMI GTO1300 / HMI GTO1310	HMI ZECOV1	
(IP 67 protection)		HMI GTO2300 / HMI GTO2310	HMI ZECOV2	_
		HMI GTO3510 / HMI GTO4310	HMI ZECOV4	_
		HMI GTO5310 / HMI GTO5315	HMI ZECOV5	_
		HMI GTO6310 /HMI GTO6315	HMI ZECOV6	

Separate components

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Operator dialogue terminals Magelis[™] Advanced Panels Replacement parts for terminals Magelis GT/GTO/GK/GH/GTW

Description 0	Characteristics	Compatible with	Reference	Weight
		terminals		kg
Spring fixing clips N Sold in lots of 12	Number of spring clips depending on terminal	XBT GT	XBT Z3002	-
	Fixing components for mounting XBT GH terminal on a wall	XBT GH	XBT ZGWMKT	_
Neck strap	For use with XBT GH hand-held terminal	XBT GH	XBT ZGNSTP	
Emergency stop on t junction box s	Enables deactivation of the junction box terminal without activating the Emergency stop (requires installation of external switching system)	XBT GH	XBT ZGHCAP	
Description I	Description	Length m.	Reference	Weight kg
substitution of terminals of	From XBT F032●10 to XBT GT2●●0	-	XBT ZGCO1	-
the Magelis range	From XBT G2110 to XBT GT2••0	_	XBT ZGCO2	_
Ē	From XBT F034 •• to XBT GT53 •0	-	XBT ZGCO3	_
	From XBT G5330 to XBT GT5330 From XBT GT5230 to HMI GTO5310	-	XBT ZGCO4	
XBT GT2●●0GT7340, r XBT GT1●●5, XBT GK●●●, c	Enables the USB type A port to be located remotely on the rear of the XBT terminal on a panel or enclosure door (Ø 21 mm fixing device)	1	XBT ZGUSB	
<b>XBT GT2</b> ••0 <b>GT7340</b> , r <b>XBT GT1</b> ••5, <b>XBT GK</b> •••, t	Enables the USB mini-B port to be located remotely on the rear of the XBT or HMI GTO terminal on a panel or enclosure door (Ø 21 mm fixing device)	1	XBT ZGUSBB	
HMI GTO panel r	Enables the USB mini-B port to be located remotely on the rear of the HMI GTO panel, on a panel or enclosure door (Ø 21 mm fixing device)	1	HMI ZSUSBB	
	Enables a PC with a PCMCIA card slot to take a Compact Flash card	-	XBT ZGADT	0.050

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Operator dialogue terminals Magelis[™] Advanced Panels Replacement parts for terminals Magelis GT/GTO/GK/GH/GTW

Description	For use with terminals	Reference	Weig
Seals	XBT GH (for junction box)	XBT ZG5H	
	XBT GT1105 / GT1135 / GT1335	XBT ZG51	0.
	XBT GT21•0 / GT2220 / GT2330	XBT ZG52	0.
	XBT GT4230 / GT43•0	XBT ZG54	0.
	XBT GT53•0	XBT ZG55	0.
	XBT GT5230 / GT63•0	XBT ZG56	0.
	XBT GT7340	XBT ZG57	0.
			0.
		XBT ZG58	
	XBT GK5330	XBT ZG59	
	HMI GTO1300 / 1310	HMI ZG51	
	HMI GTO2300 / 2310	HMI ZG52	
	HMI GTO2315	HMI ZG522	
	HMI GTO3510 / 4310	HMI ZG54	
	HMI GTO5310	HMI ZG55	
	HMI GTO5315	HMI ZG552	
	HMI GTO6310	HMI ZG56	
	HMI GTO6315	HMI ZG562	
Backlighting lamps	XBT GT5230	XBT ZG43	0
Backlighting lamps			-
	XBT GT53•0	XBT ZG45	0
	XBT GT53•0 PV≥3/XBT GT54•0	XBT ZG45B	0
	XBT GT63•0	XBT ZG46	0
	XBT GT7340	XBT ZG47	0
USB fastenings	XBT GT2••0 / GT4••0	XBT ZGCLP1	
Sold in lots of 5	XBT GT1••5 / GT5••0 / GT6••0 / GT7••0	XBT ZGCLP2	
	XBT GK	XBT ZGCLP3	
	HMI GTO (USB type A)	HMI ZGCLP1	
	HMI GTO (USB type mini-B)	HMI ZSCLP3	
Fixing kit	4 clips and screws (max. tightening torque: 0.5 Nm), supplied with all XBT GT terminals	XBT ZG FIX	0
	4 clips and screws (max. tightening torque: 0.5 Nm), supplied with all HMIGTOeee0 terminals	HMI ZGFIX	0
	8 nuts and 4 L-shaped brackets, supplied with all HMIGTO•••5 terminals	HMI ZGFIX2	0.
Extension connector protection	XBT GT/GK, except XBT GT1	XBT ZGCNC	0
Power supply connector Sold in lots of 5	XBT GT1••• / GT2••• / GT4••• XBT GK2•••	XBT ZGPWS1	0
	XBT GT5000 / 6000 / 7000	XBT ZGPWS2	
	XBT GK5•••		
	XBT GTW•••		
	HMI GTO (direct connection)	HMI ZGPWS	0
	HMI GTO (right angle connection)	HMI ZGPWS2	0
Auxiliary connector	XBT GT4••• / 5••• / 6••• / 7•••, XBT GK5•••	XBT ZGAUX	
Chaota of quatamizable labels		XBL YGK2	0
Sheets of customizable labels for XBT GK/GH terminals			0
Sold in lots of 10	XBT GK5000	XBL YGK5	
	XBT GH	XBL YGH2	
Sheets of customizable labels	HMI GTO1300 / 1310	HMI ZLYGO1	
for HMI GTO terminals	HMI GTO3510	HMI ZLYGO3	
Stylus Sold in lots of 5	XBT GH	XBT ZGPEN	
Emergency stop button protection	XBT GH	XBT ZGESGD	
Hand strap	XBT GH	XBT ZGHSTP	
Battery	HMI GTO except HMI GTO1300 / 1310 / 2300	HMI ZGBAT	
•			
Description:	Schemes: Substitution:		

**Operator dialogue terminals** Magelis[™] Advanced Panels Connection accessories for terminals Magelis GT/GTO/GK/GH/GTW

Type of terminal (terminal end connector)	Connector (PC end)	Туре	Length m	Reference (1)	Weight kg
XBT GT2●●0GT7340, XBT GT1●●5, XBT GK, XBT GH XBT GTW	USB	TTL	2	XBT ZG935	0.290
HMI GTO	USB	USB	1.80	BMX XCAUSBH018	-
Printer connection	cables				
Type of printer (2)	Connector (printer end)	Туре	Length m	Reference	Weight kg
Serial printer for XBT GT/GK/GTW terminals (except XBT GT1eee) and HMI GTO panels (except HMI GTO1310)	SUB-D female 25-way	RS 232C (COM1)	2.5	XBT Z915	0.200
Serial printer for XBT GT/GK/GTW terminals and HMI GTO papels	USB	RS 232C (COM1)	1.80	HMIZURS	-

and HMI GTO panels

#### Adaptors and isolation boxes for XBT terminals and HMI GTO panels

These 3 adaptors are used with the connection cables depending on the application concerned. For example, the XBT Z968 cable is used with the XBT ZG909 adaptor, to connect a Twido controller (via its terminal port) to an XBT GT2.00 terminal (via its COM1 port).

Description	<b>Type of connector</b> (automation product end)	Physical link (XBT or HMI GTO terminal end)	Length m	Reference	Weight kg
Adaptor for XBT GT1eee (COM1 port) XBT GT2ee07340 XBT GK (COM2 port) HMI GTO	25-way SUB-D connector	RJ 45 connector	0.2	XBT ZG939	_
Adaptors for XBT GT2••07340 XBT GK (COM1 port) XBT GTW (COM1 and	25-way SUB-D connector	9-way SUB-D connector, RS 485 on XBT terminal only	0.2	XBT ZG909 (3)	_
COM2 ports) HMI GTO (COM1 port)		9-way SUB-D connector, RS 232C	0.2	XBT ZG919	-



		R52320		
Description	For use with	Link to isolate	Reference	Weight kg
Serial link isolation units for XBT GT2●●07340 XBT GK	<ul> <li>Connection to serial port of XBT terminal</li> <li>Isolated link on 9-way SUB-D connector (4)</li> </ul>	RS 232C/RS 485 (COM1)	XBT ZGI232	_
НМІ <b>Ğ</b> ТО	<ul> <li>Box power supply via USB port of terminal. Incorporates a USB port expander.</li> </ul>	RS 485 (COM2)	XBT ZGI485	_

XBTZGI485

(1) Cable included (depending on model) with Vijeo Designer software packages (see page 4/13).

(2) Parallel printer (see page 1/37).
(3) This adaptor cannot be used with Magelis GTO terminals.
(4) Male connector with XBT ZGI232, female connector with XBT ZGI485.

Schneider Electric

			Substitution: page 1/75
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Operator dialogue terminals Magelis[™] Advanced Panels Connection accessories for terminals Magelis GT/GTO/GK/GH/GTW

Automation product type	Type of connector (automation product end)		Type of terminal	Link	On port	Length m	Reference	Weight kg	
Twido, Nano, Modicon TSX Micro, Modicon Premium	Terminal port, 8-way female mini-DIN	Uni-TE (V1/V2), Modbus	XBT GT1••• XBT GT2••07340 XBT GK HMI GTO	RS 485	COM1 COM2	2.5 10	XBT Z9780 XBT Z9782	0.18	
			XBT GT2●●07340 XBT GK	RS 485	COM1	2.5 5	XBT Z968 + (2) XBT Z9681 + (2)	0.180 0.340	
			XBT GT2••07340 XBT GK XBT GH (Junction box)	RS 485	COM1	2.5	XBT Z9018	0.170	
			XBT GTW. XBT GH (Junction box) HMI GTO	RS 232	COM1	2.5	TSX PCX 1031	-	
Modicon M340	RJ45	Modbus	XBT GT1	RS 485	COM1	2.5	XBT Z9980	0.230	
Modicon M238 Modicon M258	1040	Woubus	HMI GTO XBT GT2••07340 XBT GK	10 400	COM2	10	XBT 29982	-	
			XBT GT2••07340	RS 485	COM1	1.8	<b>XBT Z938</b> + (2)	0.230	
			XBT GK XBT GH (Junction box)			2.5	XBT Z9008	-	
	USB	Terminal	XBT GT (4)	USB	USB	1.8	BMX XCA USB H018	0.230	
	Mini-B	port	XBT GK/GTW HMI GTO		type A	4.5	BMX XCA USB H045	-	
Modicon Premium with TSX SCY 2160	,	Uni-TE (V1/V2)	XBT GT1	RS 485	COM1	2.5	<b>XBT Z918</b> + (1)	0.230	
				(*1772)	XBT GT2••07340 XBT GK XBT GH (Junction box)	RS 485	COM1	2.5	<b>XBT Z918</b> +(2)
Modicon Quantum	9-way male	Modbus	XBT GT1●●●	RS 2320	COM1	2.5	XBT Z9710 + (1)	0.210	
	SUB-D		XBT GT2••07340	RS 2320	COM1	2.5	<b>XBT Z9710</b> + (3)	0.210	
			XBT GK / GTW XBT GH (Junction box) HMI GTO			3.7	990 NAA 263 20	0.290	
Modicon STB HE13 (NIM, netwo		Modbus	XBT GT1	RS 232C	COM1	2.5	XBT Z988 + (1) XBT Z9715	0.220	
	interface module)		XBT GT2••07340	RS 232C	COM1	2	STB XCA 4002	0.210	
	moduloy		XBT GK / GTW XBT GH (Junction box) HMI GTO			2.5	<b>XBT Z988</b> + (3)	0.220	
Modicon Momentum M1	RJ45 (port 1 on	Modbus	XBT GT1●●●	RS 2320	COM1	2.5	<b>XBT Z9711</b> + (1)	0.210	
	Momentum M1)		XBT GT2••07340 XBT GK XBT GTW XBT GH (Junction box) HMI GTO	RS 232C	COM1	2.5	<b>XBT Z9711</b> + <i>(3)</i>	0.210	
TeSys U, T	RJ45	Modbus	XBT GT1	RS 485	COM1	3	VW3 A8 306 R30	0.060	
starters ATV 312/61/71			XBT GT2●●07340 XBT GK		COM2	2.5 10	XBT Z9980 XBT Z9982	-	
variable speed drives ATS 48 starters Lexium 05			HMI GTO XBT GT2••07340 XBT GK	RS 485	COM1	2.5	XBT 29008	-	
Preventa XPSMC (1) Adaptor XBT ZG93	9 to be used	with cables	XBT GH (Junction box) with " + (1)" after the re with " + (2)" after the re	ference.					
(3) Adaptor XBT ZG91 (4) Except XBT GT1		with cables	with " + (3)" after the re	eterence.					

1



TSX PCX 1031

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Schneider Gelectric

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Mitsubishi, Melsec PLCs

Description

Driver used

A CPU (SIO)

Connection cable,

**Operator dialogue terminals** Magelis[™] Advanced Panels Connection accessories for terminals Magelis GT/GTO/GK/GH/GTW

Type of connector

excluding adaptor)

(fitted to cable,

9-way SUB-D

25-way SUB-D

Physical Length Reference

XBT ZG9773

m

5

link

(COM1)

RS 422

Cables and adaptors for connecting Magelis terminals to third-party PLCs

Type of terminal

XBT GT2••0...7340

XBT GK





	XBT GH (Junction box)	20-way 00D-D				
Connection cable, Q Link (SIO)	XBT GT2••07340 XBT GK / GTW XBT GH (Junction box) HMI GTO	9-way SUB-D 9-way SUB-D	RS 232C	5	XBT ZG9772	_
Connection cable, Q CPU (SIO)	XBT GT2••07340 XBT GK / GTW XBT GH (Junction box) HMI GTO	9-way SUB-D mini-DIN	RS 232C	5	XBT ZG9774	_
Connection cable, A <i>Link (SIO)</i>	XBT GT2●●07340 XBT GK / GTW XBT GH (Junction box) HMI GTO	9-way SUB-D 25-way SUB-D	RS 232C	5	XBT ZG9731	_
Connection cable, <i>FX (CPU)</i>	XBT GT2••07340 XBT GK XBT GH (Junction box)	9-way SUB-D mini-DIN	RS 422	5	XBT ZG9775	_
	XBT GT1●●●	25-way SUB-D mini-DIN	RS 422	5	<b>XBT Z980</b> + (1)	_
	HMI GTO	9-way SUB-D mini-DIN	RS 232/ RS 422	5	HMI Z951 🛦	_
Cable for 2-port adaptor, FX (CPU), A CPU (SIO) QnA CPU (SIO)	XBT GT2••07340 XBT GK XBT GH (Junction box)	9-way SUB-D Flying leads	RS 422	5	XBT ZG9778 + <i>(4)</i>	_
Adaptor unit FX (CPU), A CPU (SIO) QnA CPU (SIO)	XBT GT2••07340 XBT GK XBT GH (Junction box)	2-port unit Screw terminals / 2 x 9-way SUB-D	RS 422	-	XBT ZG979	_
Omron, Sysmac PLCs						
Description Driver used	Type of terminal	<b>Type of connector</b> (fitted to cable, excluding adaptor)	Physical link (COM1)	Length m	Reference	Weight kg
Connection cables, <i>Link (SIO)</i>	XBT GT1●●●	25-way SUB-D 9-way SUB-D	RS 232C	2.5	XBT Z9740 + (1) XBT Z9743	0.210
	XBT GT2••07340 XBT GK/GTW XBT GH (Junction box)	9-way SUB-D 9-way SUB-D	RS 232C	5	XBT ZG9740	_
	HMI GTO	9-way SUB-D 25-way SUB-D	RS 232C	5	XBT ZG 9731	-
Connecting cables FINS (SIO)	XBT GT1●●●	25-way SUB-D 9-way SUB-D	RS 232C	2.5	XBT Z9740 + (1) XBT Z9743	0.210
	XBT GT2••07340 XBT GK/GTW	9-way SUB-D 9-way SUB-D	RS 232C	5	XBT ZG9740	_

XBT GH (Junction box)

HMI GTÓ

(1) Adaptor XBT ZG939 to be used with cables with " + (1)" after the reference (see page 1/65).
 (4) Adaptor XBT ZGCOM1 (9-way female/female SUB-D) to be used with cables with " + (4)" after the reference (XBT ZG9778).

Weight

kg

**Operator dialogue terminals** Magelis[™] Advanced Panels Connection accessories for terminals Magelis GT/GTO/GK/GH/GTW

#### Cables and adaptors for connecting Magelis terminals to third-party PLCs (continued) **Rockwell Automation, Allen-Bradley PLCs**

Description Driver used	Type of terminal	<b>Type of connector</b> (fitted to cable, excluding adaptor)	Physical link (COM1)	Length m	Reference	Weight kg
Connection cables DF1 Full Duplex	XBT GT1●●●	25-way SUB-D 9-way SUB-D	RS 232C	2.5	XBT Z9730 + (1) XBT Z9733	0.210
		25-way SUB-D 8-way mini-DIN	RS 232C	2.5	<b>XBT Z9731</b> + (1)	0.210
	XBT GT2••07340 XBT GK/GTW XBT GH (Junction box) HMI GTO	9-way SUB-D 25-way SUB-D	RS 232C	5	XBT ZG9731	
Connection cables, DH485	XBT GT1●●●	25-way SUB-D 9-way SUB-D	RS 232C	2.5	XBT Z9734	_
		25-way SUB-D 8-way mini-DIN	RS 485	5	<b>XBT Z9732</b> + (1)	_
	XBT GT2••07340 XBT GK XBT GH (Junction box)	25-way SUB-D 8-way mini-DIN	RS 485	5	<b>XBT Z9732</b> + (2)	_
	HMI GTO	9-way SUB-D	RS 485	5	<b>XBT Z9732</b> + (1)	-
Siemens, Simatic I	PLCs					
Description Driver used	Type of terminal	<b>Type of connector</b> (fitted to cable, excluding adaptor)	Physical link	Length m	Reference	Weight kg
Connection cable, PPI, S7 200	XBT GT1●●●	RJ45/9-way SUB-D	RS 485 (COM1)	2.5	XBT ZG9721	-
	XBT GT2••07340 XBT GK HMI GTO	RJ45/9-way SUB-D	RS 485 (COM2)			
Connection cables, <i>MPI port, S7 300/400</i>	XBT GT2••07340 XBT GK/GTW XBT GH (Junction box) HMI GTO	9-way SUB-D 9-way SUB-D	RS 232C (COM1)	3	XBT ZG9292	
	XBT GT2●●07340 XBT GK	RJ45/flying leads other end	RS 485 (7) (COM2)	3	VW3 A8 306 D30	0.150
	HMI GTO	RJ45/9-way SUB-D	RS 485 (7) (COM1 or COM2) (8)	2.5	XBT ZG9721	-
Customizable cabl	es					
Description Driver used	Terminal type	Type of connector (fitted to cable, excluding adaptor)	Physical link	Length m	Reference	Weight kg

Description Driver used	Terminal type	<b>Type of connector</b> (fitted to cable, excluding adaptor)	Physical link	Length m	Reference	Weight kg
Universal cable, RS 422	XBT GT2••07340 XBT GK XBT GH (Junction box)	9-way SUB-D/flying leads other end	RS 422 (COM1)	2.5	XBT ZG9722	0.210
Universal adaptor, RS 422/485	XBT GT2••07340 XBT GK XBT GH (Junction box)	9-way SUB-D/Screw terminal	RS 422 (COM1)	-	<b>XBT ZG949</b> + (5)	_
	XBT GH (Suitclion box)	9-way SUB-D/Screw terminal	RS 485 (COM2)	-	<b>XBT ZG949</b> + (6)	_

(1) Adaptor XBT ZG939 to be used with cables with " + (1) " after the reference (see page 1/65). (2) Adaptor XBT ZG909 to be used with cables with " + (2) " after the reference (see page 1/65).

(5) Cable to be created by user and used in conjunction with 9-way female/female SUB-D adaptor XBT ZGCOM1.

(6)Cable to be created by user and used in conjunction with isolation box XBT ZGI485 and 9-way male/female SUB-D adaptor XBT ZGCOM2.

(7) Non-isolated RS 485 serial link, 12 Mbps (187.5 kbps with XBT GT11•0/2110). (8) COM1 for HMI GTO1310, COM2 for the other terminals.

Presentation:	
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### Schneider Belectric

XBT ZG9731

Operator dialogue terminals Magelis[™] Advanced Panels Connection accessories for terminals Magelis GT/GTO/GK/GH/GTW

		Connectio	on of Mageli	s terminals	via serial links a	nd Eth	nernet network	
		Type of bus/ network	Tap-off units	Connector (tap-off unit side)	Terminal type	Length m	Reference	Weight kg
00	_	Uni-Telway serial link	Subscriber socket	15-way female SUB-D	XBT GT1●●● (COM1)	3	VW3 A8 306	0.150
			х	XBT GT20007340 XBT GK (COM2) HMI GTO	_			
TSX SCA 62	TSX PACC 01				XBT GT2••07340 XBT GK (COM1) XBT GH (Junction box)	1.8	<b>XBT Z908</b> + (2)	0.240
			Connection box		XBT GT1 • • • (COM1)	2.5	XBT Z9780	0.180
A 4					XBT GT2••07340 XBT GK (COM2) HMI GTO	_		
					XBT GT2••07340 XBT GK (COM1) XBT GH (Junction box)	2.5	XBT Z9018	-
TSX SCA 64	LU9 GC3	Modbus serial link	Subscriber socket	15-way female SUB-D	XBT GT1 • • • (COM1)	3	VW3 A8 306	0.150
		TSX SC.	TSX SCA 64		XBT GT2••07340 XBT GK (COM2) HMI GTO	_		
					XBT GT2••07340 XBT GK (COM1) XBT GH (Junction box)	1.8	<b>XBT Z908</b> + (2)	0.240
VW3 A8 306 TF10	2		8-port Modbus splitter box	RJ45	XBT GT1●●● (COM1)	3	VW3 A8 306R30	0.060
00000			LU9 GC3 2-port			2.5	XBT Z9980	-
			tap-off junction TWDXCAISO TWDXCAT3RJ		XBT GT2••07340 XBT GK (COM1) XBT GH (Junction box)	2.5	XBT Z9008	-
A DECEMBER OF			T-junction box	With integrated cable, RJ45	XBT GT1●●● (COM1)	1	VW3 A8 306 TF10	_
TWDXCAISO				fitted	XBT GT2••07340 XBT GK (COM2) HMI GTO	_		
		Ethernet	Hubs	RJ45	XBT GT••30 / ••40	2	490 NTW 000 02	_
		TCP/IP network	499 NEH/NOH Switches		XBT GK●●30 XBT GTW●●●	5	490 NTW 000 05	-
		network	499 NES,		XBT GH (Junction box)	12	490 NTW 000 12	-
			499 NMS,		HMI GTO	40	490 NTW 000 40	
			499 NSS and 499 NOS			80	490 NTW 000 80	-

(2) Adaptor XBT ZG909 to be used with cables with " + (2) "after the reference (see page 1/65).

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Operator dialogue terminals Magelis[™] Advanced Panels Connection accessories for terminals Magelis GT/GTO/GK/GH/GTW

Type of bus/network	Connection components	Type of terminal	Reference	Weight kg
FIPWAY, FIPIO	USB gateway	XBT GT / GK <i>(1)</i> HMI GTO	TSX CUSBFIP	
Modbus Plus	USB gateway	XBT GT / GK (1) HMI GTO	XBT ZGUMP	•
		XBT GTW	TSX CUSBMBP	
Profibus DP	Card on expansion bus	XBT GT / GK (1)	XBT ZGPDP	•
Device Net	Card on expansion bus	XBT GT / GK (1)	XBT ZGDVN	

Modular regulated s	Modular regulated switch mode power supplies (2)						
Input voltage/ Output voltage	Combination with terminals	Nominal power	Nominal current	Reference	Weight kg		
<b>100240 / 24 V</b> single-phase wide range line supply 4763 Hz	XBT GT11006340 XBT GK / GH	30 W	1.2 A	ABL 8MEM24012	0.195		
	XBT GT7340 / GTW	60 W	2.5 A	ABL 7RM24025	0.255		



1

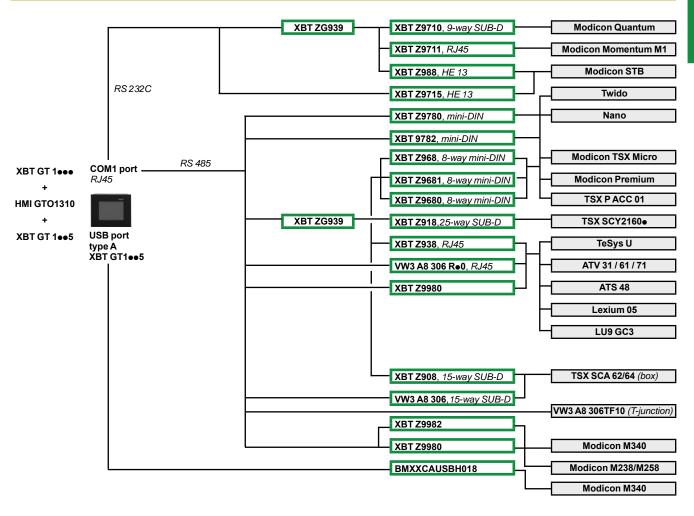
(1) Except XBT GT1 $\bullet \bullet \bullet$ . (2) Dimensions: H x W x D = 90 x 54 x 59 mm (ABL 8MEM24012) and 90 x 72 x 59 mm (ABL 7RM24025). For further information, please consult our website www.schneider-electric.com.

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Schneider Belectric

# Operator dialogue terminals Magelis[™] Advanced Panels Connection system

#### XBT GT11•5 terminals, HMI GTO1310 terminals and Schneider Electric products

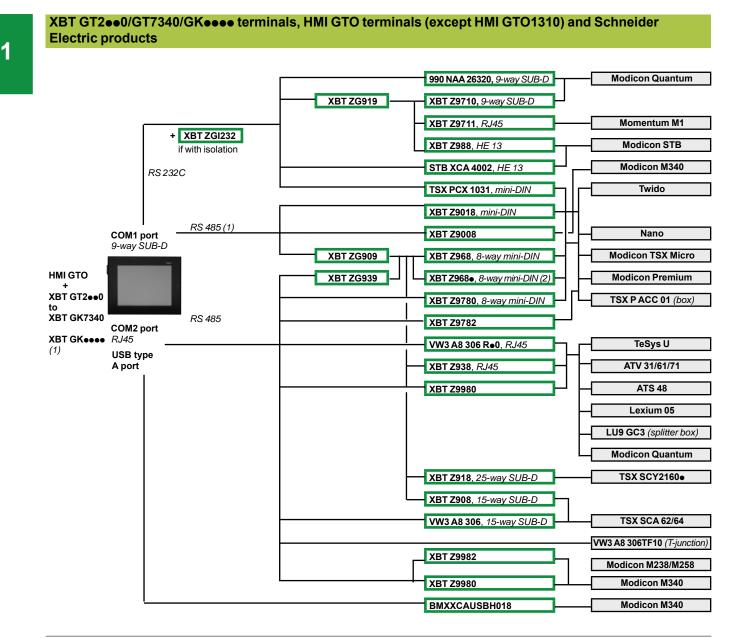


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Schneider Belectric

## **Operator dialogue terminals** Magelis[™] Advanced Panels

Connection system



(1) RS485 not available for HMI GTO (COM1).

(2) • defines the length: - 0, 2.5 m (elbowed connector)

-1,5m

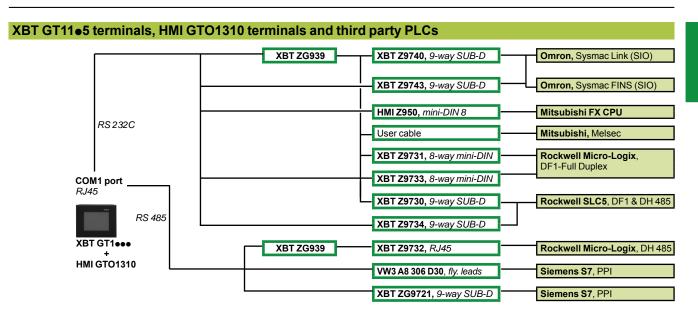
-6, 16 m

-7,20m

-8,25m

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1

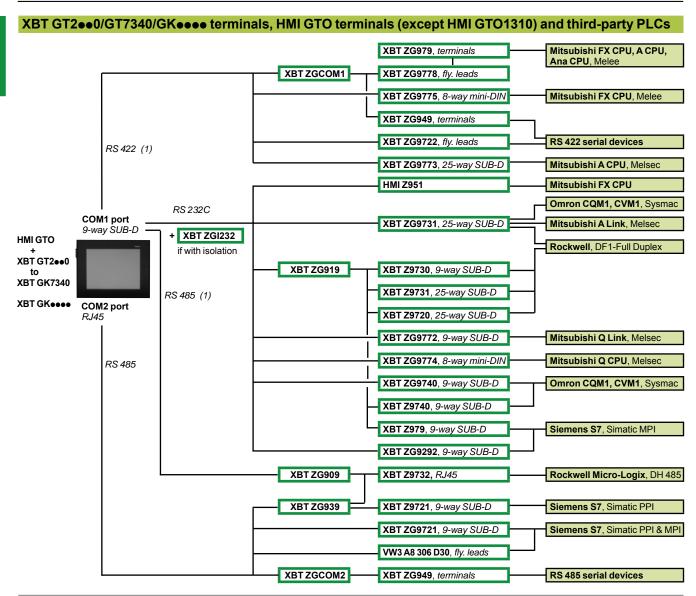
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## **Operator dialogue terminals** Magelis[™] Advanced Panels

Connection system



(1) RS 422 and RS 425 not available on HMI GTO (COM1).

Application transfer from XBT (	GT terminals to PC		
XBT GT1100/1130 <u>8-way mini-DIN</u> XBT GT2••0 to XBT GT7340 XBT GT1••5	USB type A XBT ZG915, 9-way SUB-D XBT ZG925, type A XBT ZG935, type A	Serial port	
Application transfer from HMI G	TO terminals to PC		
HMI GTO	USB type A XBT ZG935 USB mini-B BMXXCAUSBH018	— USB port	

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Operator dialogue terminals Magelis[™] Advanced Panels Equivalent product table Magelis XBT GT and HMI GTO

Equivalent product table between XBT GT terminals and HMI GTO terminals					
Old range XBT GT	New range HMI GTO Requires Vijeo Designer≥ V6.1	Mechanical adaptor			
XBT GT1100	HMI GTO1300	-			
XBT GT1130	HMI GTO1310	-			
XBT GT1105	HMI GTO1300	-			
XBT GT1135	HMI GTO1310	-			
XBT GT1335	HMI GTO1310	-			
XBT GT2110	HMI GTO2300	-			
XBT GT2120	HMI GTO2310	-			
XBT GT2130	HMI GTO2310	-			
XBT GT2220	HMI GTO2310	-			
XBT GT2330	HMI GTO2310	-			
XBT GT4230	HMI GTO4310	-			
XBT GT4330	HMI GTO4310	-			
XBT GT5230	HMI GTO5310	XBT ZGC04			
XBT GT5330	HMI GTO5310	-			
XBT GT6330	HMI GTO6310	-			

Comments: when upgrading from the Magelis XBT range to the Magelis GTO Optimum range, the following parameters must be taken into account: - connection to the Profibus DP and Device Net fieldbuses is not possible,

- a combined RS232/RS422 serial link is not possible with COM1,

- there is no "alarm" output or "loudspeaker" output in the current version of the Optimum range.

Presentation:	Description:	References:	Connections:	
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-				

### **Signaling Units**

Monolithic tower lights Harmony[®] type XVGU Ø 60 Multi-color USB tower lights

HMI (Magelis Advanced Panels (1))

#### Presentation

The monolithic USB tower lights of the Harmony[®] XVGU range are designed to support HMI (Magelis[™] Advanced Panels (1)). These new tower lights with multi-color LEDs are unique and simple-to-use as the states and patterns are directly set and modified in the HMI application.

The XVGU tower lights provide long distance indication of the operating status or sequences of a machine or installation, both visually by means of illuminated signaling units with 360° visibility, and audibly by means of a buzzer.

■ The tower light comes with a pre-assembled USB cable for simple wiring and easy integration with the Magelis Advanced Panels (1) (2).

■ The tower light settings are selected from the Set screen of the HMI application at the time of integration.

The multi-color LEDs on all the three levels can be set to many possible color combinations (red, orange, green or blue) for sophisticated signaling.
 The 2-tone buzzer volume and alarm type (4 pre-recorded types) can be set easily.

■ The tower lights are easy to order as many customized configurations can be made from a single part number.

■ The range involves Ø 60 mm/2.36 in. products and is therefore ideal for use in many activity sectors (textiles, packaging, baggage handling). It is also ideal for use with metal tools, plastic extrusion machines and assembly lines. This range is only for indoor applications.

XVGU tower lights are supplied:

- with 3 multi-color LEDs and a clear lens,
- with a 2-tone buzzer,
- with pre-assembled USB cable for easy connection (2),
- with USB cable clamp for firm connection,
- fitted with one of the following mounting options:
- □ direct base mounting (IP 42),
- □ aluminium tube mounting and fixing plate (IP 42).

(1) Please refer to "USB tower lights compatible with Magelis Advanced Panels" table on page 1/79.

(2) For extension, use either the Schneider Electric USB cable (BMXXCAUSBH018) or a third-party USB Type A/mini B cable of maximum length 4 m/13.12 ft.

### **Signaling Units**

Monolithic tower lights Harmony[®] type XVGU Ø 60 Multi-color USB tower lights

#### **Presentation** (continued)

Advanced Panels (1). Modicon M258 Signal action Transfer project data Modicon M258 Signal action Magelis Advanced Panel

The following illustrates the integration of XVGU tower lights with the Magelis™

1 The HMI application is created on a computer using the Vijeo designer HMI editor software (V6.1 Service pack 1 or higher). It is then downloaded to the Magelis Advanced Panel (1) via a USB cable for setting situation, color, and buzzer actions.

2 The tower light's pre-assembled USB cable is connected to the Magelis terminal for power supply and signal transmission (2).

3 The LED colors, flashing patterns, and buzzer tones are set and modified in the HMI Set screen.

#### Illuminated signaling

The light source consists of three multi-color LEDs (red, orange, green or blue) completed with a clear lens to provide an aesthetic look and reliable signaling (clear lenses help to avoid color reflectance in bright environments). When LEDs are not powered, the tower lights appear translucent. The LED colors can be set to many possible combinations of red, orange, green, and blue.

#### Audible signaling

The tower light is supplied with a 2-tone buzzer audible signaling unit, the volume of which can be adjusted up to 85 dB. This audible unit with 4 pre-recorded alarm types is located in the base of the tower light.

#### Environment

The XVGU tower lights are CE certified and conform to EN 61000-6-2 and EN 61000-6-4 standards.

#### Cabling

XVGU tower lights have pre-assembled USB cable with "Type A female" connector to attach to any standard USB mini B cable. A clamp is provided to prevent unintended removal or disconnection of the tower light from the Magelis Advanced Panel.

(1) Please refer to "USB tower lights compatible with Magelis Advanced Panels" table on page 1/79.

. (2) For extension, use either the Schneider Electric USB cable (BMXXCAUSBH018) or a third-party USB Type A/mini B cable of maximum length 4 m/13.12 ft.

# Signaling Units Monolithic tower lights

Harmony[®] type XVGU Ø 60 Multi-color USB tower lights



2

#### Description

XVGU monolithic tower lights comprise an assembly of:

- 1 Three layers of multi-color illuminated signaling units (red, orange, green, or blue) which are set in the HMI application. Each XVGU tower light is equipped with mulit-color LEDs and a clear lens molded from a single piece of clear plastic. The colors are visible only when the LEDs are supplied with power (5 V DC).
- 2 A base unit integrating the buzzer.
- 3 A fixing base for mounting on a horizontal support: 3a a fixing base, comprising a 100 mm/3.94 in. aluminium support tube mounted on a fixing plate,
  - 3b a fixing base fitted with 3 screws for direct mounting.
- 4 A USB cable with "Type A female" connector, the projecting length being 300 mm/11.81 in. for tube mounting and 400 mm/15.75 in. for direct mounting models (1).

Pre-asse	mbled tower l	ights <del></del>	5 V, Ø 60 m	m/2.36 in.	
Description	Light source (included)	Degree of protection		Reference	Weight
With 100 m	m/ <i>3.94 in.</i> alumin	ium tube n	nounting and	fixing plate	
With buzzer	Multi-color LED for various states and patterns	=	Red/Orange/ Green/Blue	XVGU3SHAV	0.300 kg/ <i>0.661 lb</i>

With direct	base mounting			
With buzzer	Multi-color LED for IP 42 various states and patterns	Red/Orange/ Green/Blue	XVGU3SWV	0.300 kg/ 0.661 lb

Accessories				
Description	Utilization	Length	Reference	Weight
Connection cable from PC to the terminal (USB Type A/mini B)	Cable for transferring screen data from a PC (USB Type A) to a HMI (USB Type mini B)	1.8 m/ 5.91 ft	BMXXCAUSBH018	0.065 kg/ <i>0.143 lb</i>

Note: Signaling colors: Red, Orange, Green, and Blue. The colors with any of these combination is set easily in the HMI application.

(1) For extension, use either the Schneider Electric USB cable (BMXXCAUSBH018) or a third-party USB Type A/mini B cable of maximum length 4 m/13.12 ft.





1

2

# **Signaling Units** Monolithic tower lights Harmony[®] type XVGU Ø 60 Multi-color USB tower lights

#### USB tower lights compatible with Magelis[™] Advanced Panels and HMI Controllers

, so or tower light	ht 1 Type of Advanced Panels or HMI Controllers	Description	Reference 2
XVGU3SWV	Monochrome touch screen	Optimum, 3.8" QVGA screen/Orange or red/STN	XBTGT1
XVGU3SHAV	Standard Advanced Panels	Optimum, 3.8" QVGA screen/Orange or red/STN	XBTGT1
		Optimum, 5.7" QVGA screen/Blue mode/STN	XBTGT2
		Multifunction, 5.7" QVGA screen/Black and White/ STN	XBTGT2
		Multifunction, 5.7" QVGA screen/Blue mode/STN	XBTGT2
	Color touch screen Standard Advanced Panels	Optimum, 3.8" QVGA screen/TFT	XBTGT1
	Auvanueu Falleis	Multifunction, 5.7" QVGA screen/STN	XBTGT2
0		Multifunction, 5.7" QVGA screen/TFT	XBTGT2
		Multifunction, 5.7" VGA screen/TFT	XBTGT2
		Multifunction, 5.7" QVGA screen/High brightness TFT	XBTGT2
		Multifunction, 7.5" VGA screen/STN	XBTGT42
		Multifunction, 7.5" VGA screen/TFT	XBTGT4
		Multifunction, 7.5" VGA screen/TFT	XBTGT43
		Multifunction, 10.4" VGA screen/STN	XBTGT52
		Multifunction, 10.4" VGA screen/TFT	XBTGT53
		Multifunction, 10.4" VGA screen/TFT	XBTGT5
		Multifunction, 10.4" SVGA screen/TFT	XBTGT5
		Multifunction, 12.1" SVGA screen/TFT	XBTGT6
		Multifunction, 12.1" SVGA screen/TFT	XBTGT6
		Multifunction, 15" XGA screen/TFT	XBTGT73
	Keypad/touch screen Standard Advanced Panels	Multifunction, 5.7" screen/Black and white/STN	XBTGK2 ⁴
		Multifunction, 5.7" screen/Color/TFT	XBTGK23
		Multifunction, 10.4" screen/Color/TFT	XBTGK5
	Portable touch screen Standard Advanced Panels	Multifunction, 5.7" screen/Color/TFT	XBTGH24
		Multifunction, 5.7" screen/Color/TFT (without Emergency stop Pushbutton)	XBTGH246
	Junction box	Junction Box for XBTGH2 (without Fieldbus)	XBTZGJB
	Optimum Advanced Panels	3.5" QVGA screen/TFT	HMIGTO13
		3.5" QVGA screen/TFT	HMIGTO13
		5.7" QVGA screen/TFT	HMIGTO23
		5.7" QVGA screen/TFT	HMIGTO2
		5.7" QVGA screen/Stainless steel	HMIGTO2
		7.0" WVGA screen/TFT	HMIGTO3
		7.5" VGA screen/TFT	HMIGTO4
		10.4" VGA screen/TFT	HMIGTO5
		10.4" VGA screen/Stainless steel	HMIGTO5
		12.1" SVGA screen/TFT	HMIGTOG
		12.1" SVGA screen/Stainless steel	HMIGTO
	HMI Controllers	3.8" screen/Orange or Red/STN	XBTGC110
		3.8" screen/Orange or Red/STN	XBTGC11
		5.7" screen/Black and white/STN	XBTGC212
		5.7" screen/Black and white/STN	XBTGC21
		5.7" screen/Color/STN	XBTGC223
		5.7" screen/Color/STN	XBTGC22

Note: For more information on Magelis Advanced Panels and HMI Controllers, see pages 1/28 and 2/2.

(1) The minimum required Vijeo designer software version is Vjd 6.1 Service pack 1.

Contents

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#### Selection guide

HMI Controllers Magelis[™] XBT GC HMI Controllers Magelis[™] XBT GT, XBT GK Standard Advanced Panels + control function

Applications		Display of text messages, grap Control and configuration of d			
		IEC 1131-2 control function	lata		
Terminal type		HMI Controllers			
		Ngati: Buch			
Display	Туре	Back-lit monochrome (amber or red mode) STN LCD (320 x 240 pixels)	Backlit monochrome STN LCD (320 x 240 pixels)	Colour STN LCD (320 x 240 pixels)	
	Capacity	3.8" (monochrome)	5.7" (monochrome)	5.7" (colour)	
Data entry		Via touch screen			
	Static function keys	-			
	Dynamic function keys	-			
	Service keys	-			
	Alphanumeric keys	-			
Memory capacity	Application	16 MB EPROM Flash			
	Extension	-			
Functions	Maximum number of pages and maximum number of instructions	Limited by internal Flash EPROM memory capacity			
	Variables per page	Unlimited (8000 variables max.)			
	Programmed logic	5 languages according to IEC 1131-2 (LD, ST, FBD, SFC, IL)			
	Counting/positioning	4 x 100 kHz fast counter inputs/4	4 x 65 kHz pulse train outputs		
	Control (PID) Representation of variables	Yes Alphanumeric, bitmap, bargraph indicator	ı, gauge, tank, tank level indicator	, curves, polygon, button,	
	Recipes	32 groups of 64 recipes comprising 1024 ingredients max.			
	Curves	Yes, with log			
	Alarm logs	Yes			
	Real-time clock	Built-in			
1/0	Integrated	12 x 24 V digital inputs 6 sink or source transistor outputs (1)	16 x 24 V digital inputs 16 sink or source transistor outputs (1)		
	I/O modular extensions	Two M238 I/O modules max.	Three M238 I/O modules max.		
Communication	Downloadable protocols	-	Uni-TE, Modbus, Modbus TCP/IP (1) and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens		
	Asynchronous serial link	-	RS 232C/RS 422/485 (COM1)		
	USB ports Buses and networks	1 1 CANopen master with optional			
	Duses and networks		module (XBT 2GC CAN)	Ethernet TCP/IP (10BASE-T/100 BASE-T	
	Printer link	USB port for parallel printer			
Design software		SoMachine with Windows XP Pr see page 2/29	ofessional and Windows 7 Profes	ssional 32/64-bit,	
Operating system		Magelis (131 MHz RISC CPU)			
Terminal type		XBT GC 1100 T/U	XBT GC 2120 T/U	XBT GC 2230 T/L	

More technical information on www.schneider-electric.com

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Schneider
Electric
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2/2

Display of text messages, graphic objects and mimics Control and configuration of data			
IEC 1131-2 control function			
Touch screen Standard Advanced Panels + control function	Standard Advanced Panels with keypad + control function		
Back-lit monochrome or colour STN LCD or colour TFT LCD (320 x 240 pixels to 1024 x 708 pixels) (1)	Monochrome STN LCD or colour TFT LCD (320 x 240 pixels or 640 x 480 pixels) (1)		
5.7" (monochrome or colour) 7.5", 10.4", 12.1" or 15" (colour) (1)	5.7" (monochrome or colour) or 10.4" (colour) (1)		
Via touch screen	Via keypad and/or touch screen (configurable) and/or by industrial pointer		
-	10 or 12 (1)		
-	14 or 18 <i>(1)</i> 8		
-	12		
16 MB Flash EPROM or 32 MB Flash EPROM (1) By 128 MB to 4 GB CF card (1)			
Limited by internal Flash EPROM memory or by CF memory card capacity			
Unlimited (8000 variables max.) 5 languages according to IEC 1131-2 (LD, ST, FBD, SFC, IL)			
-			
Yes Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygo	on, button, indicator		
32 groups of 64 recipes comprising 1024 ingredients max. Yes, with log			
Yes Built-in			
-			
Uni-TE, Modbus, Modbus TCP/IP (1) and for PLC brands: Mitsubishi, Omron, All	en-Bradley and Siemens		
RS 232C/RS 422/485 (COM1) and RS 485 (COM2) 1 or 2 (1) 1 CANopen master with external module (XBT ZG CANM) which is mandatory fo	r the central function		
Ethernet TCP/IP (10BASE-T/100BASE-TX) (1)			
USB port for parallel printer and RS 232C serial link (COM 1)			
SoMachine with Windows XP Professional and Windows 7 Professional 32/64-bi see page 2/29)			
Magelis (131 MHz RISC or 266 MHz RISC CPU) (1)	Magelis (133 MHz RISC CPU)		
XBT GT 2•/4•/5•/63/73 + XBT ZG CANM	XBT GK 2●/53 + XBT ZG CANM		
1/59 and 2/20	1/60 and 2/20		

More technical information on www.schneider-electric.com

### HMI Controllers

Magelis[™] XBT GC HMI Controllers Magelis[™] XBT GT/GK Standard Advanced Panels with control



Magelis XBT GC HMI Controllers

#### Presentation

Magelis HMI Controllers are part of Schneider's Flexible Machine Control concept, a key element in MachineStruxure™.

The Magelis HMI Controller offer brings together Human Machine Interface and control functions within in a single product. This reduces the amount of equipment required and the associated costs throughout the life cycle of the machine.

This offer features two product ranges:

■ The compact range: Magelis XBT GC HMI Controllers

The modular range: Magelis XBT GT/GK Standard Advanced Panels + XBT ZC CANM CANopen module

#### Magelis XBT GC HMI Controllers

#### (compact range)

The compact design of Magelis XBT GC HMI Controllers optimizes setup.

This range comprises six touch screen terminals, with the following, depending on the model:

- 3.8" monochrome screen, 12 integrated inputs/6 integrated outputs (sink or source)
- 5.7" monochrome or colour screen, 16 integrated inputs/16 integrated outputs (sink or source)

 A wide choice of communication interfaces (USB, serial link, CANopen and Ethernet)

In order to adapt easily to different configurations, it is possible to add digital or analog I/O expansion modules at the rear of the Controller.

#### Magelis XBT GT/GK Standard Advanced Panels + XBT ZC CANM CANopen module (modular range)

This range is made up of the complete Magelis XBT GT or Magelis XBT GK Standard Advanced Panels offers combined with a control part using the XBT ZG CANM CANopen module. During operation, this module controls the I/O and the peripherals distributed via the CANopen bus.

The combination with Magelis XBT GT or Magelis XBT GK Standard Advanced Panels gives a wide choice of screen sizes and types of data entry, depending on the model:

- 17 XBT GT touch screen terminals:
- □ 5.7" monochrome or colour screens
- □ 7.5", 10.4", 12.1" and 15" colour screens
- 3 XBT GK terminals with keypad and/or touch screen:
- □ 5.7" monochrome or colour screens
- □ 10.4" colour screens

This combination also offers numerous Standard Advanced functions such as video, data management (sharing of data, log), etc.

#### Operation

With their fast, multitasking processors, all the HMI Controllers combine HMI and control functions and share the same screen and communication features and dimensions.

The internal memory can be freely used by both the HMI function and the control function.

Processing is split 75% on the HMI part and 25% on the control part. The processing can be configured for 3 tasks, including 1 master task.

XBT GC HMI Controllers also share the same I/O modules, the same Telefast pre-wired system and the same peripherals on the CANopen bus as the M238 logic controller.

XBT GT Advanced Panels	+
XBT GK Advanced Panels	Module XBT ZG CANM



HMI function: Magelis XBT GT/GK Advanced Panels

Control function: XBT ZG CANM CANopen master module

Description: page 2/8 References page 2/10

Schneider Electric

Functions

#### Presentation (continued)

HMI Controllers Magelis[™] XBT GC HMI Controllers Magelis[™] XBT GT/GK Standard Advanced Panels with control



SoMachine

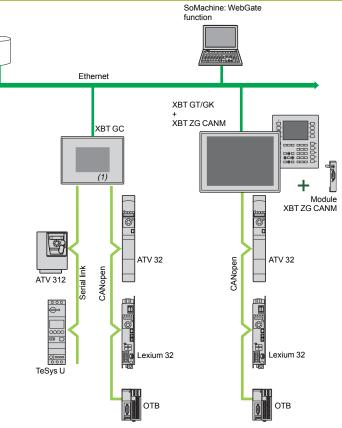
#### Configuration

Magelis XBT GC HMI Controllers and Magelis XBT GT/GK Standard Advanced Panels are configured using Schneider Electric's unique machine automation software, SoMachine.

This software, combining both HMI and control functions, is based on Vijeo Designer software in the Windows XP Professional and Windows 7 Professional 32/64-bit environment.

SoMachine software boasts an advanced user interface with many configurable windows, enabling unique projects to be developed quickly and easily. See page 2/26.

#### Communication



(1) With XBT ZGC CAN CANopen master module

Examples of communication architectures

Depending on the model, Magelis HMI Controllers and Magelis XBT GT/GK Standard Advanced Panels communicate with automation devices via 1 or 2 integrated serial links using the following communication protocols:

- Schneider Electric (Uni-TE, Modbus)
- Third-party: Mitsubishi Electric, Omron, Allen-Bradley and Siemens

Depending on the model, they can be connected to Ethernet TCP/IP networks with the Modbus TCP protocol or a third-party protocol, and can be used as the CANopen master to control all the peripherals which can be connected on this bus.

Functions:	Description:	References:	
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-			

#### Schneider Electric

**Functions** 

HMI Controllers Magelis[™] XBT GC HMI Controllers Magelis[™] XBT GT/GK Standard Advanced Panels with control

#### Functions

Magelis HMI Controllers are part of Schneider's Flexible Machine Control concept, a key element in MachineStruxure™.

Magelis XBT GC HMI Controllers and Magelis XBT GT/GK Standard Advanced Panels offer the following HMI functions:

■ Display of animated mimics with 8 types of animation (pressing the touch panel, colour changes, filling, movement, rotation, size, visibility and value display)

- Control, modification of numeric and alphanumeric values
- Display of current date and time
- Real-time curves and trend curves with log
- Alarm display, alarm log and management of alarm groups
- Multi-window management
- Page calls initiated by the operator
- Multilingual application management (10 languages simultaneously)
- Recipe management
- Data processing via Java script
- Application support and USB key external memory logs
- Management of serial printers and barcode readers

Magelis XBT GC HMI Controllers and Magelis XBT GT/GK Standard Advanced Panels (1) have been designed for Transparent Ready architectures and equipment (combination of Web and Ethernet TCP/IP technologies).

With the WebGate function, it is possible to control or carry out maintenance remotely.

Magelis XBT GC HMI Controllers and Magelis XBT GT/GK Standard Advanced Panels offer the following functions for control:

■ Execution of programmed logic sequences with the five IEC 1131-2 languages (LD, ST, FBD, SFC, IL)

Management of equipment on the CANopen fieldbus

In addition to these functions, Magelis XBT GC HMI Controllers manage:

- Integrated and remote I/O on expansion modules
- Remote analog I/O on expansion modules

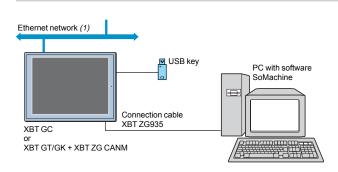
(1) Depending on model.

HMI Controllers Magelis[™] XBT GC HMI Controllers Magelis[™] XBT GT/GK Standard Advanced Panels with control

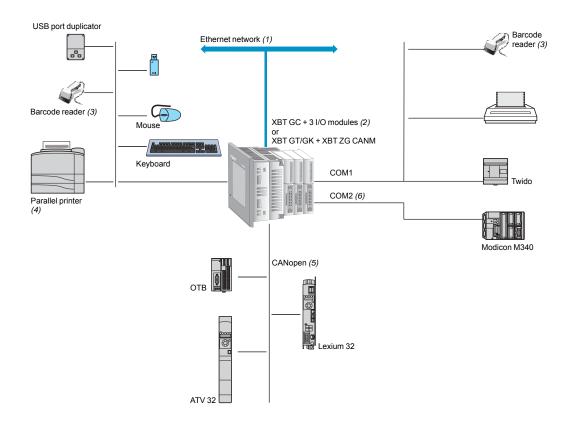
#### **Operating modes for the terminals**

The illustrations below show which equipment can be connected to XBT terminals based on their two operating modes.

Edit mode



#### Run mode



- (1) With XBT GC 2230T/U, XBT GT •• 30, XBT GT •• 40, XBT GK •• 30
- (2) With XBT GC ••• T/U, maximum 2/3 I/O modules according to model
- (3) Should be a DataLogic Gryphon barcode reader
- (4) Should be a Hewlett Packard printer via a USB/PIO converter

(5) Requires:

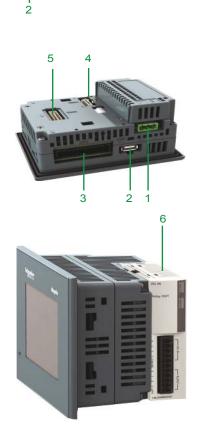
- for XBT GC: XBT ZGC CAN CANopen master module
- for XBT GT/GK: XBT ZG CANM CANopen master module

(6) With XBT GT/GK

Presentation: Description: References:	
page 2/4 page 2/8 page 2/10	

HMI Controllers Magelis[™] XBT GC HMI Controllers with 3.8" screen





#### **Description**

#### Magelis XBT GC1100T and XBT GC1100U HMI Controllers The front panel comprises:

- 1 A touch screen for displaying mimics (3.8" amber or red mode monochrome)
- 2 A control indicator showing the terminal's operating mode

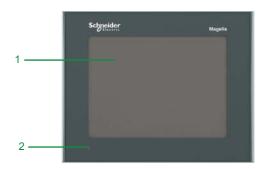
#### The rear panel comprises:

- A removable screw terminal block for 24 V --- power supply 1
- A type A USB master connector for peripheral connection and application transfer 2
- A removable terminal block for 12 digital inputs and 6 digital outputs 3
- An interface for connecting M238 logic controller I/O expansion modules 4
- 5 An interface for connecting the CANopen bus master module (see page 2/19)
   Digital (TM2 D●●) or analog (TM2 A●●) I/O expansion module (to be ordered separately, see pages 2/11 and 2/12)

It is possible to combine a maximum of two I/O expansion modules, depending on the module type (see page 2/13).

Presentation:	Functions:	References:	
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2/8		Schneider Electric	

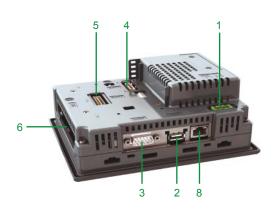
HMI Controllers Magelis[™] XBT GC HMI Controllers with 5.7" screen



#### Description

#### Magelis XBT GC2e20 and XBT GC2e30 HMI Controllers The front panel comprises:

- A touch screen for displaying mimics (5.7" monochrome or colour) 1
- 2 A multicolour indicator (green, orange and red) showing the terminal's operating mode

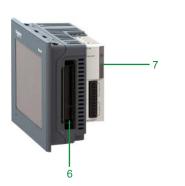


#### The rear panel comprises:

- 1 A removable screw terminal block for 24 V ---- power supply
- A type A USB master connector for peripheral connection and application transfer 2 A 9-way male SUB-D connector for RS 232C or RS 422/485 serial link to PLCs 3 (COM1)
- An interface for connecting the M238 logic controller I/O expansion module 4
- An interface for connecting the CANopen bus master module (see page 2/19) 5
- A removable terminal block for 16 digital inputs and 16 digital outputs 6
- 7 Digital (TM2 Dee) or analog (TM2 Aee) I/O expansion module (to be ordered separately, see pages 2/11 and 2/12)
  - It is possible to combine a maximum of three I/O expansion modules, depending on the module type (see page 2/13).

#### For XBT GC2230 only:

8 An RJ45 connector for Ethernet TCP/IP 10BASE-T/100BASE-TX link



Presentation:	Functions:	References:	
page 2/4	page 2/6	page 2/10	

#### References

# HMI Controllers Magelis[™] XBT GC HMI Controllers



XBT GC1100



**Separate parts** 

Spring clip for expansion modules on XBT GC

Power supply connector

Dierct I/O connector

Functions:

page 2/6

XBT GC2



XBTZGUSB

Magelis XB1	Magelis XBT GC HMI Controllers (1)								
Type of screen	No. of ports	Application memory capacity	Compact Flash memory	Integrated I/O	No. of Ethernet ports	Reference	Weight kg		
3.8" screen									
STN	1 USB	16 MB	No	12 I/6 O source	-	XBT GC1100T	0.400		
amber or red				12 I/6 O sink	-	XBT GC1100U	0.400		
5.7" screen									
STN	1 COM 1	16 MB	No	16 I/16 O source	-	XBT GC2120T	1.000		
black and white mode	1 USB			16 I/16 O sink	-	XBT GC2120U	1.000		
5.7" screen									
STN	1 COM 1	16 MB	No	16 I/16 O source	1	XBT GC2230T	1.000		
colour	1 USB			16 l/16 O sink	1	XBT GC2230U	1.000		

Designation	Compatibility	Size		Reference	Weight kg
Protective sheets	XBT GC 1100	_		XBT ZG60	0.200
(5 peel-off sheets)	XBT GC2••0	-		XBT ZG62	0.200
Designation	Description		Length	Reference	Weight kg
Remote USB port location for type A XBT terminal	Enables the USB port to be located remotely on the rear of the XBT terminal on a panel or cabinet door (Ø 21 mm fixing device)		1 m	XBT ZGUSB	_
Remote USB port location for mini type B XBT terminal	_		-	XBT ZGUSBB	-
XBT GC connection to CANopen master fieldbus	Connection via card on bus extension		-	XBT ZGCCAN	_
Cable for transferring application to PC	USB TTL connector		2 m	XBT ZG 935	_
<b>Replacement parts</b>					
Designation	Used for			Reference	Weight kg
Seals	XBT GC1100			XBT ZG51	0.030
	XBT GT21•0			XBT ZG52	0.030
USB fastenings	XBT GC 1100			XBT ZGCLP2	_
	XBT GC 2●●0			XBT ZGCLP4	_
Mounting kit	4 clips and screws (max. ti included with all XBT GC to	m),	XBT ZG FIX	0.100	

XBT GC2000 XBT ZG DIO2 (1) Terminals supplied with mounting kit (screw clips), locking device for USB connectors, spring clip for expansion modules (except XBT GC 1100) and instruction sheet. The setup documentation for XBT GC terminals is supplied in electronic format with SoMachine software (see page 2/29).

**XBT ZGCHOK** 

XBT ZGPWS1

XBT ZG DIO1

0.030

0.030

-

Presentation:	
page 2/4	

Schneider Belectric

XBT GC2••0 terminals

XBT GC1 ••• / GC2 •••

XBT GC1000

2

#### HMI Controllers Magelis[™] XBT GC HMI Controllers Digital I/O expansion modules

#### **Digital I/O expansion modules**

Digital I/O expansion modules are mounted on the rear of XBT GC controller bases. The maximum permitted number of digital and/or analog I/O modules depends on the type of XBT GC terminal and the thickness of the modules (see combination rule on page 2/13).

<b>Digital input m</b>	odules (1)					
Input voltage	No. of channels	No. of common points	Connection	Thickness mm (Type)	Reference	Weight kg
24 V <del></del> sink/source	8	1	By removable screw terminal block (provided)	23.5 (B)	TM2 DDI 8DT	0.085
	16	1	By removable screw terminal block (provided)	23.5 (B)	TM2 DDI 16DT	0.100
			By HE 10 connector	23.5 (B)	TM2 DDI 16DK (2)	0.065
	32	2	By HE 10 connector	29.7 (C)	TM2 DDI 16DK (2)	0.100
120 V $\sim$	8	1	By removable screw terminal block (provided)	23.5 (B)	TM2 DAI 8DT	0.081

Digital output n	nodules (1)					
Input voltage	No. of channels	No. of common points	Connection	Thickness mm (Type)	Reference	Weight kg
Transistors 24 V <del></del>	8, sink 0.3 A	1	By removable screw terminal block (provided)	23.5 (B)	TM2 DDO 8UT	0.085
	8, sink 0.5 A	1	By removable screw terminal block (provided)	23.5 (B)	TM2 DDO 8TT	0.085
Transistors 24 V <del></del>	16, sink 0.1 A	1	By HE 10 connector	17.6 (A)	TM2 DDO 16UK	0.070
	16, sink 0.4 A	1	By HE 10 connector	17.6 (A)	<b>TM2 DDO 16TK</b> (2)	0.070
	32, sink 0.1 A	2	By HE 10 connector	29.7 (C)	TM2 DDO 32UK	0.105
	32, sink 0.4 A	2	By HE 10 connector type	29.7 (C)	<b>TM2 DDO 32TK</b> (2)	0.105
2 A relays (lth) 230 V ~ /30 V	8 (NO contact)	2	By removable screw terminal block (provided)	23.5 (B)	TM2 DRA 8RT	0.110
	16 (NO contact)	2	By removable screw terminal block (provided)	23.5 (B)	TM2 DRA 16RT	0.145

Digita	Digital mixed I/O modules (1)								
No. of I/O	No./type of inputs	No./type of outputs	No. of common points	Connection	Thickness mm (Type)	Reference	Weight kg		
8	4 I, 24 V === sink/source	4 relay O (NO contact) 2 A (Ith)	Inputs: 1 common Outputs: 1 common	By removable screw terminal block (provided)	23.5 (B)	TM2 DMM 8DRT	0.095		
24	16 I, 24 V sink/source	8 relay O (NO contact) 2 A (Ith)	Inputs: 1 common Outputs: 2 common	By spring terminal block	39.1 (D)	TM2 DMM 24DRF	0.140		

(1) Please refer to the "Modicon M238 logic controller" catalogue.

(2) Module supports use of the Modicon Telefast ABE 7 pre-wired system.



TM2 DDI 8DT



TM2 DDO 8• T/DRA 8RT



TM2 DDO 32•K



TM2 DDM 24DRF

<u>)</u>5

2

#### HMI Controllers Magelis[™] XBT GC HMI Controllers Analog I/O expansion modules

#### Analog I/O expansion modules

Analog I/O expansion modules are mounted on the rear of XBT GC controller bases. The maximum number of digital and/or analog I/O modules depends on the type of XBT GC terminal and the thickness of the modules (see combination rule on page 2/13).

Analog input m	. ,						
Channel type	Input range	Output range	Resolution	Connected by	Thickness mm (Type)	Reference	Weight kg
2 inputs	010 V 420 mA	-	12-bit	Removable screw terminal block (provided)	23.5 (B)	TM2 AMI 2LT	0.085
	Thermocouple J, K, T	-	12-bit	Removable screw terminal block (provided)	23.5 (B)	TM2 AMI 2LT	0.085
4 inputs	010 V 020 mA 2, 3 or 4 wire Pt100/1000 Ni100/1000 temperature probe	-	12-bit	Removable screw terminal block (provided)	23.5 (B)	TM2 AMI 4LT	0.085
8 inputs	010 V 420 mA	-	10-bit	Removable screw terminal block (provided)	23.5 (B)	TM2 AMI 8LT	0.085
	2 or 3-wire Pt100/1000 temperature probe	-	12-bit	RJ11 connector	23.5 (B)	TM2 ARI 8LRJ	_
				Removable screw terminal block (provided)	23.5 (B)	TM2 ARI 8LT	-
	PTC/NTC	-	10-bit in NTC Detection of 2 thresholds in PTC	Removable screw terminal block (provided)	23.5 (B)	TM2 ARI 8LT	0.085
Analog output	modules (1)						
1 output	-	010 V 420 mA	12-bit	Removable screw terminal block (provided)	23.5 (B)	TM2 AMO 1HT	0.085
2 outputs	-	± 10 V	11-bit + sign	Removable screw terminal block (provided)	23.5 (B)	TM2 AVO 2HT	0.085
Analog I/O mod	lules (1)						
2 inputs and 1 output	010 V 420 mA	010 V 420 mA	12-bit	Removable screw terminal block (provided)	23.5 (B)	TM2 AMM 3HT	0.085
	Thermocouple J, K, T 2 or 3-wire Pt100 temperature probe	010 V 420 mA	12-bit	Removable screw terminal block (provided)	23.5 (B)	TM2 ALM 3LT	0.085
4 inputs and 1 output	010 V 420 mA	010 V 420 mA	12-bit	Removable screw terminal block (provided)	23.5 (B)	TM2 AMM 6HT	0.085
Separate parts							
Designation	Description					Reference	Weight kg
Earthing plate		(via 6.35 mm F		ctors for connectir rs, not included) a		TM2 XMT GB	0.045

TWD XMT 5

0.065

(1) For characteristics, please refer to the "Modicon M238 logical controller" catalogue.

For plate or panel mounting of analog modules

TM2 AMI 2LT



TM2 ARI 8LRJ



TM2 ARI 8LT

References XBT GC: page 2/10

Mounting kit

Sold in lots of 5

HMI Controllers Magelis[™] XBT GC HMI Controllers I/O expansion modules



XBT GC1•••

2

Ì	- All	DC W Ruley OUT	and the	
*	0.4	1 1 1 1 344 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Level Level	•
1	ГМ2 E ГМ2 A			

**Combinations of** 2 I/O expansion modules with XBT GC1

XBT GC1

Combi	nations of two	expansion m	odules
Type (1)	Туре (1)	Total thickness (mm)	
A	А	35.2	Permitted combinations
А	В	41.1	combinations
В	В	47.0	
A	С	47.3	
В	С	53.2	
A	D	56.7	
С	С	59.4	
В	D	62.6	Prohibited combinations
С	D	68.8	compinations
D	D	78.2	

#### XBT GC2••• **Combinations of two expansion modules**

an a Bala Stri
+ <b>+</b>
TM2 D••
TM2 A●●

XBT GC2•••

Combinations of 2 I/O expansion	Type (1)	Туре (1)	Total thickness (mm)	
modules with XBT GC2●●●	A	А	35.2	Permitted combinations
	A	В	41.1	combinations
	В	В	47.0	
	A	С	47.3	
	В	С	53.2	
	A	D	56.7	
	С	С	59.4	
	В	D	62.6	Prohibited combinations
	С	D	68.8	Combinations
	D	D	78.2	

XBT GC2•••	Combinations of three expansion modules						
Combinations of 3 I/O expansion	Туре (1)	Туре (1)	Туре (1)	Total thickness (mm)			
modules with XBT GC2eee	A	A	A	52.8	Permitted combinations		
	A	A	В	58.7	with hook		
	A	В	В	64.6	(2)		
	В	В	В	70.5			
	All other combinations			-	Prohibited		

(1) For digital (TM2 Doo) and analog (TM2 Aoo) I/O expansion module types, see pages 2/11 and 2/12:

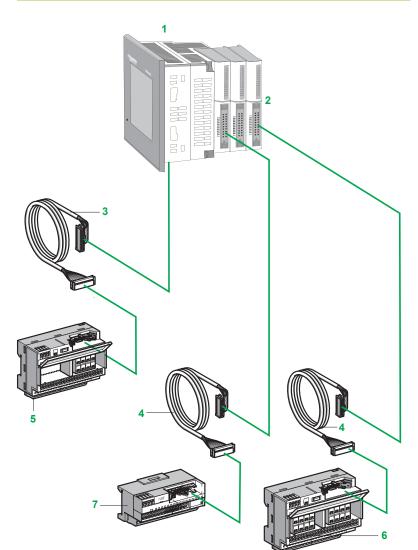
- Type A: thickness 17.6 mm
  Type B: thickness 23.5 mm
  Type C: thickness 29.7 mm
  Type D: thickness 39.1 mm

(2) Hook included with product

#### **HMI Controllers**

Modicon Telefast[®] pre-wired system for Magelis[™] XBT GC HMI Controllers Connection sub-bases for digital I/O (integrated or on expansion modules)

#### Presentation



- 1 XBT GC equipped with 22 or 38-way direct I/O connectors. The modularity options offered have 18 or 32 I/O.
- 2 Digital I/O expansion modules equipped with 20-way HE10 connectors. The modularity options offered have 16 or 32 I/O.
- 3 2 m AWG 28/0.08 mm² cordsets, depending on the model:
- □ For XBT GC 1100T/U: XBT ZG ABE1 preassembled cordset with a 26-way
- HE 10 connector and a 22-way Direct I/O-XBT GC connector at each end
- □ For **XBT GC 2**•••**T/U**: **XBT ZG ABE2** preassembled cordset with two 20-way HE10 connectors and a 38-way Direct I/O-XBT GC connector

4 ABF T20E••0 preassembled cordset with a 20-way HE 10 connector at each end, available in 0.5, 1, 2 and 3 m lengths (AWG 28/0.08 mm²)

5 Depending on model:

□ For XBT GC 1100T: ABE 7B20MPN2● or ABE 7B20MRM20 20-channel sub-base for the bases

□ For XBT GC 2●●●T: ABE 7E16EPN20 or ABE 7E16SPN2● 16-channel sub-base

6 ABE 7E16SPN22 or ABE 7E16SRM20 16-channel sub-base for digital outputs integrated or on expansion modules

7 ABE 7E16EPN20 or ABE 7E16SPN20 16-channel sub-base for digital inputs or outputs integrated or on expansion modules

### **HMI Controllers**

Modicon Telefast[®] pre-wired system for Magelis[™] XBT GC HMI Controllers Connection sub-bases for digital I/O (integrated or on expansion modules)

		XBT GC	XBT GC			Digital I/O expansion modules		
		Integrated digital I/O		)		Inputs	Outputs (source)	
		XBT GC 1100T		XBT GC 2000T		TM2 DDI 16DK (16 I)	TM2 DDO 16TK (16 O)	
Integrated in 1	wido programmable controllers	121	6 O source	16	16 O source	TM2 DDI 32DK (32 I)	TM2 DDO 32TK (32 O	
Connection block types		Direct I/0 22-way	Direct I/O, 22-way		),	HE 10, 20-way		
Connection to XBT GC programmable HMI Controller		XBT ZG	XBT ZG ABE1		ABE2	<b>ABF T20E●●0</b> (HE 10, 20-way)		
Passive con	nnection sub-bases							
20-channel	ABE 7B20MPN2•		(1)					
16-channel	ABE 7E16EPN20							
	ABE 7E16SPN2•							
Output ada	ptor sub-bases							
20-channel	ABE 7B20MRM20		(2)					
16-channel	ABE 7E16SRM20							

Compatible

Incompatible

Note: Telefast cables and modules are not compatible with XBT GC units with sink outputs (U suffix).

(1) 6 channels used for 8 available

(2) 6 channels used for 8 available with 2 transistor outputs and 4 relay outputs

### **HMI Controllers**

Modicon Telefast[®] pre-wired system for Magelis[™] XBT GC HMI Controllers Connection sub-bases for digital I/O (integrated or on expansion modules)

	Canada a
1	
J.	
J,	

ABE 7B20MPN20



ABE 7E16EPN20



ABE 7E16SRM20

References For XBT GC 1100T bases										
Number of I/O	No./ type of inputs	No./ type of outputs	Compatibility	LED per chnnl	Fuse	Reference	Weight kg			
20	12, sink 24 V <del></del>	6, sink 24 V <del></del>	XBT GC1100T	No	No	ABE 7B20MPN20	0.430			
				Yes	Yes	ABE 7B20MPN22	0.430			
	12, sink 24 V <del></del>	2, source 24 V, 2 A and 4, relay	XBT GC1100T	No	No	ABE 7B20MRM20	0.430			

#### For expansion modules or XBT GC 2... bases

Number of inputs	Input type	Compatibility	LED per chnnl	Fuse	Reference	Weight kg
16	Sink 24V	TM2 DDI16DK/ DDI32K and XBT GC2•••T	No	No	ABE 7E16EPN20	0.430
Number of outputs	Output type	Compatibility	LED per chnnl	Fuse	Reference	Weight kg
16	Source 24 V	TM2 DDO16TK/	No	No	ABE 7E16SPN20	0.450
		DDO32TK and XBT GC2●●●T	Yes	Yes	ABE 7E16SPN22	0.450
	Relay 24 V <del></del> , 250 V∕, 3 A		No	No	ABE 7E16SRM20	0.430

Conne	Connection cables for XBT GC										
Туре	Compatibility	Connectio	on type	Gauge Cross- sect.	•	Reference	Weight				
of signal		XBT GC side	Telefast side		(1)		kg				
Digital I/O	XBT GC 1100T	Direct I/O 22-way	HE 10 26-way	AWG 28 0.08 mm ²	2.0 m	XBT ZG ABE1	0.180				
	XBT GC 2●●0T	Direct I/O 38-way	2 x HE 10 20-way		2.0 m	XBT ZG ABE2	0.180				
	TM2 DDI16DK/ DDI32DK/ DDO16TK/ DDO32TK	HE 10 20-way	HE 10 20-way	AWG 28 0.08 mm ²	0.5 m	ABF T20E050	0.060				
					1 m	ABF T20E100	0.080				
					2 m	ABF T20E200	0.140				

Accessories					
Designation	Number of shunted terminals	Characteristics	Order in multiples of	Unit reference	Weight kg
Optional snap-on terminal blocks	20	-	5	ABE 7BV20	0.060
	12+8	-	5	ABE 7BV20TB	0.060
Quick-blow fuses	_	0.125 A	10	ABE 7FU012	0.010
5 x 20, 250 V, UL		0.315 A	10	ABE 7FU030	0.010
		1 A	10	ABE 7FU100	0.010
		2 A	10	ABE 7FU200	0.010

(1) For cable lengths > 2 m, please contact our Customer Care Centre.

### **HMI Controllers**

Modicon Telefast[®] pre-wired system for Magelis[™] XBT GC HMI Controllers Connection sub-bases for digital I/O (integrated or on expansion modules)

Separate par	rts						
Designation		Туре		Compatibility	/	Reference	Weight kg
Connectors Sold in lots of 5		HE 10 female 26-way		TWD LMDA20DTK/ LMDA40DTK		TWD FCN2K26	-
		HE 10 female 20-way		TM2 DDI16DK/ DDI32DK/ DDO16TK/ DDO32TK		TWD FCN2K20	-
Sold in lots of 5		10-way		TM2 DDI•DT/DAI8DT/ DDO8•T/DRA•RT		TWD FTB2T10	-
		11-way		TM2 DMM8DRT/ AMI●●T/ARI8HT		TWD FTB2T11	-
Designation	Compatibility	Connection ty Twido side	ype Other end	Gauge/ Cross-sect.	Length	Reference	Weight kg
Cables for digital I/O	TM2 DDI16DK/	HE 10 20-way	Flying leads	AWG 22 0.035 mm ²	3 m	TWD FCW30K	0.40
	DDI32DK/ DDO16TK/ DDO32TK				5 m	TWD FCW50K	0.670
Rolled ribbon cable	20 conductors	-	-	AWG 28 0.08 mm ²	20 m	ABF C20R200	1.310

#### Presentation, description, references

### **HMI Controllers**

CANopen bus CANopen master bus module for Magelis[™] HMI Controllers XBT GC



XBT GC + XBT ZGC CAN

The **XBT ZGC CAN** module provides the CANopen bus master function for Magelis **XBT GC** HMI Controllers.

SoMachine software is used to configure the CANopen machine bus for the Magelis XBT GC HMI Controllers (see page 2/26).

#### The various services on offer include:

■ For Schneider Electric slaves such as ATV 312/61/71 variable speed drives and Lexium 32 servo drives one or more profiles are supplied for configuring the slave according to a predefined mode.

The use of profiles means that the user has a defined operating mode without having to configure it.

For third-party slaves:

□ The user can choose from an editable list by simply importing an EDS (Electronic Data Sheet) description file.

□ The slave can be positioned on the bus with definition of the slave number, speed, monitoring, etc.

- The user can select variables from the list of variables managed by the slave.
- Variables can be linked to exchange data.
- □ Exchange data can be symbolized.



XBTZGC CAN



Description

The XBT ZGC CAN CANopen master bus module features:

- 1 3 LEDs (PWR, RUN and ERR) providing power supply and module operation status information
- 2 A 9-way male SUB-D connector for the CANopen bus
- 3 A connector for the XBT GC HMI Controller

Reference		
Description	Reference	Weight kg
CANopen bus master module for Magelis XBT GC HMI Controller Conformity class M10	XBT ZGC CAN	0.100

### **HMI Controllers**

CANopen bus CANopen master bus module for Magelis[™] HMI Controllers XBT GC

#### **Example architecture**



The above configuration shows an example architecture based on the Magelis  ${\bf XBT\,GC}$  HMI Controller.

The **XBT ZGC CAN** expansion module provides the CANopen bus master function for the **XBT GC** HMI Controller.

The CANopen bus is made up of a master station, the Magelis **XBT GC** HMI Controller and slave stations. The master is in charge of configuration, exchanges and diagnostics to the slaves.

The CANopen bus is used to manage various slaves such as:

- Digital slaves
- Analog slaves
- Variable speed drives
- Motor starters
- ...

For an example connection from a *Distributed CANopen Optimized* architecture, see page 2/24.

### **HMI** Controllers

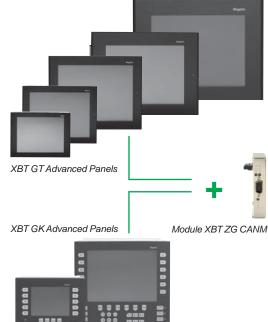
Standard Advanced Panels (see page 2/22).

The various services on offer include:

CANopen bus CANopen master bus module for Magelis[™] Standard Advanced Panels XBT GT/GK

The XBT ZG CANM CANopen master bus module provides the control function for the Magelis XBT GT (5.7", 10.4", 12.1" or 15") and XBT GK (5.7" or 10.4") ranges of

SoMachine software is used to configure the CANopen machine bus for this module



2



HMI function: Magelis XBT GT/GK Advanced Panels

Control function: XBT ZG CANM CANopen master module

# 2 1

XBT ZG CANM

#### Description

- The XBT ZG CANM CANopen master bus module features:
- 1 3 LEDs (PWR, RUN and ERR) providing power supply and module operation status information
- A 9-way male SUB-D connector for connecting to the CANopen bus 2
- A connector for connecting to the rear of the Magelis XBT GT/GK Standard 3 Advanced Panels
- Positions for fixing screws 4

Reference		
Description	Reference	Weight kg
CANopen bus master module for Magelis XBT GT/GK Standard Advanced Panels Conformity class M10	XBT ZG CANM	0.100

■ For Schneider Electric slaves such as ATV 312/61/71 variable speed drives and Lexium 32 servo drives one or more profiles are supplied for configuring the slave according to a predefined mode.

The use of profiles means that the user has a defined operating mode without having to configure it.

For third-party slaves: 

**Presentation** 

(see page 2/26).

The user can choose from an editable list by simply importing an EDS (Electronic Data Sheet) description file.

□ The slave can be positioned on the bus with definition of the slave number, speed, monitoring, etc.

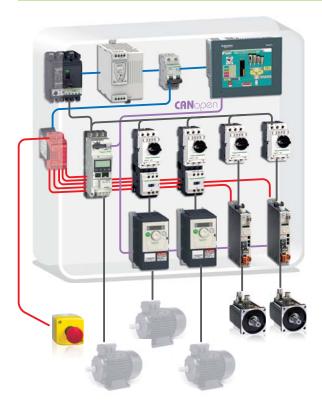
- □ The user can select variables from the list of variables managed by the slave.
- □ Variables can be linked to exchange data.
- □ Exchange data can be symbolized.

#### Architecture

### **HMI Controllers**

CANopen bus CANopen master bus module for Magelis[™] Standard Advanced Panels XBT GT/GK

#### **Example architecture**



TThe above configuration shows an example architecture based on an **XBT GT/GK** Standard Advanced Panel.

The **XBT ZG CANM** expansion module provides the CANopen bus master function for the Magelis **XBT GT/GK** Standard Advanced Panel.

The CANopen bus is made up of a master station, the Magelis **XBT GT/GK** Standard Advanced Panel and slave stations. The master is in charge of configuration, exchanges and diagnostics to the slaves.

The CANopen bus is used to manage various slaves such as:

- Digital slaves
- Analog slaves
- Variable speed drives
- Motor starters
- **...**

For an example connection from a *Distributed CANopen Optimized* architecture, see page 2/24.

References

HMI Controllers Magelis[™] XBT GT Standard Advanced Panels

XBT GT21•0/2220/2330





XBT GT53•0



XBT GT63•0



XBT GT7340

XBT GK monochrome touch screen terminals compatible with the XBT ZG CANM
CANopen master module (1) (2)

Screen type	No. of ports	Application memory capacity	Compact Flash memory	Composite video input	No. of Ethernet ports	Reference	Weight kg
5.7" optimum QV	GA screen						
STN blue mode	1 COM 1 1 COM 2 1 USB	16 MB	No	No	-	XBT GT2110	1.000
5.7" multifunction	n QVGA scree	n					
STN	1 COM 1	16 MB	Yes	No	-	XBT GT2120	1.000
Black and white	1 COM 2 1 USB				1	XBT GT2130	1.000

#### XBT GK colour touch screen terminals compatible with the XBT ZG CANM CANopen master module (1) (2)

CANopen master	mouule	; ( I) ( <b>Z</b> )					
Screen type	No. of ports	Application memory capacity	Compact Flash memory	Composite video input	Embedded Ethernet	Reference	Weight kg
5.7" multifunction QV	GA screer	า					
STN	1 COM 1 1 COM 2 1 USB	16 MB	Yes	No	_	XBT GT2220	1.000
TFT	1 COM 1 1 COM 2 1 USB	16 MB	Yes	No	1	XBT GT2330	1.000
High Brightness TFT	1 COM 1 1 COM 2 1 USB	16 MB	Yes	No	1	XBT GT2930	1.000
5.7" multifunction VG	A screen						
TFT	1 COM 1 1 COM 2 2 USB	32 MB	Yes	No	1	XBT GT2430	_
7.5" multifunction VG	A screen						

7.5 multifunct	ION VOA SCIEEN					
STN	1 COM 1 32 MB 1 COM 2 1 USB	Yes	No	1	XBT GT4230	1.800
TFT	1 COM 1 32 MB	Yes	No	1	XBT GT4330	1.800
	1 COM 2 1 USB		Yes	1	XBT GT4340	1.800

Multifunction	10.4" VGA screen	I					
STN	1 COM 1 1 COM 2 2 USB	32 MB	Yes	No	1	XBT GT5230	3.000
TFT	1 COM 1	32 MB	Yes	No	1	XBT GT5330	2.500
	1 COM 2 2 USB			Yes	1	XBT GT5340	2,500

#### Multifunction 10.4" SVGA screen

TFT	1 COM 1 1 COM 2	32 MB	Yes	No	1	XBT GT 5430	2.500
	2 USB						

Multifunction 12	2.1" SVGA scree	en					
TFT	1 COM 1	32 MB	Yes	No	1	XBT GT6330	3.000
	1 COM 2 2 USB			Yes	1	XBT GT6340	3.000
Multifunction 1	5" XGA screen						
TFT	1 COM 1 1 COM 2 2 USB	32 MB	Yes	Yes	1	XBT GT7340	5.600

(1) Terminals supplied with mounting kit (screw clips), locking device for USB connectors and instruction sheet. The setup documentation for XBT GT teminals is supplied in electronic format with SoMachine software (see page 2/29). (2) All data relating to Magelis XBT GT Standard Advanced Panels is available on our site www.schneider-electric.com

### **HMI Controllers**

XBT GK keypad/touch screen terminals compatible with the XBT ZG CANM

Magelis[™] XBT GK Standard Advanced Panels

## 

XBT GK2120/2330



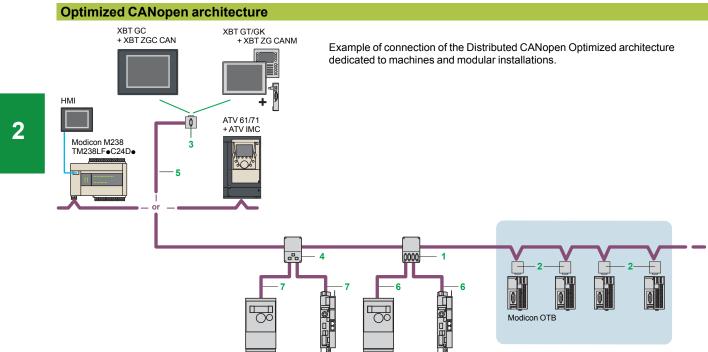
CANopen master module (1) (2) Screen type No. of Application Compact memory Flash Video No. of Weight Reference ports Ethernet input kg capacity ports memory 5.7" multifunction screen 1 COM 1 1 COM 2 STN 32 MB Yes No **XBT GK2120** Black and white 1 USB 5.7" multifunction screen TFT 1 COM 1 32 MB No **XBT GK2330** Yes 1 Colour mode 1 COM 2 1 USB 10.4" multifunction screen TFT 1 COM 1 32 MB Yes No 1 **XBT GK5330** 1 COM 2 2 USB Colour mode

(1) Terminals supplied with mounting kit (spring clips), locking device for USB connectors, customizable label sheets and instruction sheet.

(2) All data relating Magelis XBT GK Standard Advanced Panels is available on our website www.schneider-electric.com.

### **HMI Controllers** CANopen bus

Wiring system



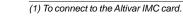
Lexium 32

ATV 312

Lexium 32

#### References

The for the test of test o							
		Standard tap june	ctions and connectors				
	Designation		Description	ltem no.	Length	Unit reference	Weight kg
THE CONTRACT OF THE		IP 20 CANopen tap junction	4 SUB-D ports. Screw terminal block for connecting the trunk cables Line termination	1	-	TSX CAN TDM4	0.19
1.1		IP 20 CANopen connectors (9-way female SUB-D)	Right angle	2	-	TSX CAN KCDF 90T	0.04
TSX CAN TDM4	Switch for line termination	Straight (1)	-	_	TSX CAN KCDF 180T	0.04	
			Right angle with 9-way SUB-D for connecting a PC or diagnostic tool	3	-	TSX CAN KCDF 90TP	0.05
C C C		M12 IP 67 connectors	Male	-	-	FTX CN 12M5	0.05
/			Female	-	-	FTX CN 12F5	0.05
VW3 CAN TAP2		IP 20 CANopen tap junction for Altivar and Lexium 32	2 RJ45 ports	4	-	VW3 CAN TAP2	0.25
TSX CAN KCD TSX CAN F		Daisy chain taps	Equipped with: - 2 spring terminal blocks for daisy chain connection of the CANopen bus - 1 preassembled cordset with RJ45 connector for connecting the drive	-	0.6	TCS CTN 026M 16M	-
	TSX CAN KCI	D	Equipped with: - 2 RJ45 connectors for daisy chain connection of the CANopen bus - 1 preassembled cordset with RJ45 connector for connecting the drive	-	0.3	TCS CTN 023F 13M03	-
F90T	F180T	CANopen line terminators	For RJ45 connector Sold in lots of 2	-	-	TCS CAR013M120	-
			For screw terminal block connector Sold in lots of 2	-	-	TCS CAR01NM120	-



ATV 312

TSX CAN KCD F90TP

TCS CAR013M120

2/24

## **HMI** Controllers CANopen bus

Wiring system

	References (co	ntinued)				
	IP 20 standard cab	les and preassembled cordsets				
	Designation	Description	Item no	. Length	Unit reference	Weight kg
	CANopen cables	For standard environment (1), CE marking:	5	50 m	TSX CAN CA50	4.930
	(2 x AWG 22 2 x AWG 24)	Low smoke zero halogen Flame-retardant (IEC 60332-1)		100 m	TSX CAN CA100	8.800
				300 m	TSX CAN CA300	24.560
		For standard environment (1), UL certification, C€ marking: Flame-retardant (IEC 60332-2)	5	50 m	TSX CAN CB50	3.580
		Ce marking. Fiame-relardant (IEC 60332-2)		100 m	TSX CAN CB100	7.840
				300 m	TSX CAN CB300	21.870
		For harsh environment (2) or mobile installation,	5	50 m	TSX CAN CD50	3.510
		CE marking: Low smoke zero halogen. Flame-retardant (IEC 60332-1).		100 m	TSX CAN CD100	7.770
		Resistance to oils		300 m	TSX CAN CD300	21.700
	CANopen	For standard environment (1), CE marking:	-	0.3 m	TSX CAN CADD03	0.091
	preassembled cordsets	Low smoke zero halogen. Flame-retardant (IEC 60332-1)		1 m	TSX CAN CADD1	0.143
	One 9-way female SUB-D connector at			3 m	TSX CAN CADD3	0.295
	each end			5 m	TSX CAN CADD5	0.440
		For standard environment (1), UL certification, label marking CE: flame retardant (IEC 60332-2)	-	0.3 m	TSX CAN CBDD03	0.086
3 CAN A71				1 m	TSX CAN CBDD1	0.131
				3 m	TSX CAN CBDD3	0.268
				5 m	TSX CAN CBDD5	0.400
•	CANopen preassembled cordsets	Cordsets with one 9-way female SUB-D	6	0.5 m	TCS CCN 4F3 M05T	0.100
č		connector and one RJ45 connector		1 m	TCS CCN 4F3 M1T	0.100
15					VW3 M38 05 R010 (3)	0.100
10				3 m	VW3 M38 05 R010 (3)	0.300
-					TCS CCN 4F3 M3T	0.160
		Cordsets with two 9-way SUB-D connectors,	-	0.5 m	TLA CD CBA 005	0.100
- 2		one male and one female		1.5 m	TLA CD CBA 015	0.120
0				3 m	TLA CD CBA 030	0.190
)				5 m	TLA CD CBA 0	0.350
	IP 20 connection accessories					
	CANopen connector for Altivar 71 (4)	9-way female SUB-D. Switch for line termination. Cables exit at $180^\circ$	-	-	VW3 CAN KCDF 180T	0.100
	Adaptor for Altivar 71 drive	SUB-D to RJ45 CANopen adaptor	-	-	VW3 CAN A71	0.100
	CANopen preassembled	1 RJ45 connector at each end	7	0.3 m	VW3 CAN CARR03	0.100
	cordsets			1 m	VW3 CAN CARR1	0.100
	CANopen bus adaptor for Lexium 17D	Hardware interface for link conforming to the CANopen standard + 1 connector for connecting a PC terminal	-	-	AM0 2CA 001V000	0.110
	Y-connector	CANopen/Modbus	-	_	TCS CTN011M11F	0.100

(1) Standard environment: no particular environmental constraints, operating temperature between + 5°C and + 60°C, and in fixed installations.

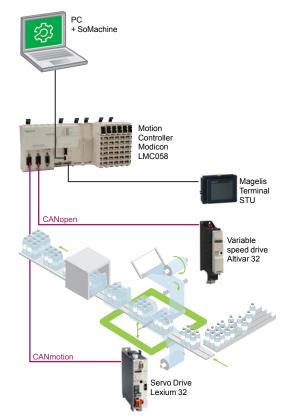
(2) Harsh environment: resistance to hydrocarbons, industrial oils, detergents, solder splashes, relative humidity up to 100%, saline atmosphere, significant temperature variations, operating temperature between - 10°C and + 70°C, or in mobile installations.

(3) Cordset equipped with a line terminator.
 (4) For ATV 71H000M3, ATV 71HD11M3X, HD15M3X, ATV 71H075N4... HD18N4 drives, this connector can be replaced by the TSX CAN KCDF 180T connector.

# SoMachine software suite

Simplify machine programming and commissioning





### Presentation

SoMachine is the OEM solution software for developing, configuring and commissioning the entire machine in a single software environment, including logic, motion control, HMI and related network automation functions.

SoMachine allows you to program and commission all the elements in Schneider Electric's Flexible and Scalable Control platform, the comprehensive solution-oriented offer for OEMs, which helps you achieve the most optimized control solution for each machine's requirements.

Flexible and Scalable Control platforms include:

### Controllers:

- HMI controllers: XBT GC, XBT GT/GK CANopen,
- Logic controllers: Modicon M238, Modicon M258,
- Motion Controller: Modicon LMC 058,
- Integrated Controller Card: Altivar IMC.
- I/Os range: Modicon TM2, Modicon TM5 and Modicon TM7 offers

### HMI:

- Small Panels Magelis[™] STO/STU
- Advanced Panels Magelis[™] GH/GK/GT
- Optimum Advanced Panels Magelis[™] GTO

## SoMachine is a professional, efficient, and open software solution integrating Vijeo-Designer.

It integrates also the configuring and commissioning tool for motion control devices. It features all IEC 61131-3 languages, integrated field bus configurators, expert diagnostics and debugging, as well as outstanding capabilities for maintenance and visualisation.

SoMachine integrates tested, validated, documented and supported expert application libraries dedicated to applications in Packaging, Hoisting and Conveying.

SoMachine provides you:

- One software package
- One project file
- One cable connection
- One download operation

### Visual graphic user interface

Navigation within SoMachine is intuitive and highly visual. Presentation is optimized in such a way that selecting the development stage of the desired project makes the appropriate tools available. The user interface ensures nothing is overlooked, and suggests the tasks to be performed throughout the project development cycle. The workspace has been streamlined, so that only that which is necessary and relevant to the current task is featured, without any superfluous information.

### Learning centre

From the home menu, the learning centre provides several tools to get started with SoMachine. An animated file explains briefly the SoMachine interface and concept. An e-learning allows to run a self-training about SoMachine. A third section gives access to several documented examples of simple coding with SoMachine. An intuitive and efficient online help is also available, guiding you to get the best answer.

### **Projects management**

The implemented project management principle allows to browse quickly through the existing projects getting the relevant information without the need to open them before selection.

The user can create a new project, starting from several means: using Tested Validated and Documented Architectures, using the provided examples, using an existing project or start with an empty project. There is quick access to the most recently-used projects.

There is as well a way to start a project from standard project taking advantages of a pre-configured program (task, library, ....)



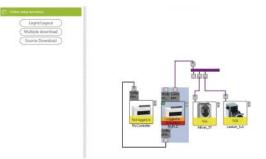
Project management

# SoMachine software suite

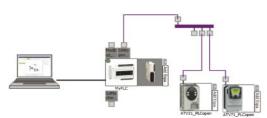
Simplify machine programming and commissioning



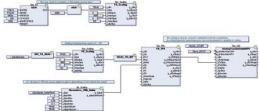
Configuration



Commissioning



Transparency



a configuration picture.

**Project properties** 

### Configuration

From the graphic user interface, the user can easily build his architecture and configure the devices of the architecture.

For each project, the user has the option to define additional information, through simple forms. It's also possible to attach documents, a customer picture and

### **Description of the architecture**

A graphic editor can be used to assemble the various elements easily by a simple drag & drop. A devices catalogue is displayed on the left of the screen. It is split into several sections: controllers, HMI, Miscellaneous and search.

#### Configuration of the device

Directly from the topologic view of the user interface, a simple click drives the user to the configuration screen of the selected device.

#### Programming and debug

Programming is an essential step, and the user has to carefully design it to be as efficient as possible. Advanced control and HMI functions cover all the needs of an OEM engineer in terms of creating the control and visualisation system. Powerful tools allow debug and functional tests such as simulation, step by step execution, break points and trace.

### Commissioning

For an easy and fast diagnostic, the menu commissioning allows the user to check the online state of his architecture. Through the topologic view of the configuration, the devices display if you are logged in or not, as well as if they are in run or stop mode.

#### Documentation

Because a printed file of the project is an important element, it is possible to build and customize the project report:

- select the items to be included in the report,
- organize the sections,
- define the page layout
- and then launch the printing.

### Transparency

SoMachine supports Device Type manager (DTM) because it is a field device tool (FDT) container.

With DTM's representing field device in SoMachine, direct communications are possible to every single device via SoMachine, the controller and the field bus (Modbus for all devices and CANopen for the I/O's).

From the SoMachine unique environment, the remote devices can be set-up off-line and tuned on-line.

### **Dedicated OEM application libraries (AFB libraries)**

SoMachine can be extended through its solution extension DVD. It integrates tested, validated, documented and supported expert application libraries dedicated to many OEM applications. Their simple configuration speeds up design, commissioning, installation and troubleshooting.

These libraries cover the following applications:

- Packaging,
- Hoisting,
- Conveying.

### **Tested Validated Documented Architectures (TVDA)**

SoMachine provides a variety of preset projects with ready-to-use architectures you can adapt to individual requirements. Some of them are generic TVDA, they are based on controllers configuration. The solution extension DVD brings specific application solutions oriented TVDA's to SoMachine.

Application Function Blocks

# SoMachine software suite

Simplify machine programming and commissioning

Overview	
IEC 61131-3 programming languages	<ul> <li>IL (Instruction List)</li> <li>LD (Ladder Diagram)</li> <li>SFC (Sequential Function Chart)</li> <li>ST (Structured Text)</li> <li>FBD (Function Block Diagram)</li> <li>CFC (Continous Function Chart)</li> </ul>
Controller programming services	<ul> <li>Multi-tasking: Mast, Fast, Event</li> <li>Functions (Func) and Function Blocks (FBs)</li> <li>Data Unit Type (DUTs)</li> <li>On-line changes</li> <li>Watch windows</li> <li>Graphical monitoring of variables (trace)</li> <li>Breakpoints, step-by-step execution</li> <li>Simulation</li> <li>Visualization for application and machine set-up</li> </ul>
HMI-based services	<ul> <li>Graphics libraries containing more than 4000 2D and 3D objects.</li> <li>Simple drawing objects (points, line, rectangles, ellipses, etc)</li> <li>Preconfigured objects (button, switch, bar graph, etc)</li> <li>Recipes (32 groups of 256 recipes with max. 1024 ingredients)</li> <li>Action tables</li> <li>Alarms</li> <li>Printing</li> <li>Java scripts</li> <li>Multimedia file support: wav, png, jpg, emf, bmp</li> <li>Variable trending</li> </ul>
Motion services	<ul> <li>Embeded devices configuration and commissioning</li> <li>CAM profile editor</li> <li>Sample application trace</li> <li>Motion and drive function blocks libraries for inverters, servos and steppers</li> <li>Visualization screens</li> <li>Logical encoder</li> </ul>
Global services	<ul> <li>User access and profile</li> <li>Project documentation printing</li> <li>Project comparison (control)</li> <li>Variable sharing based on publish/subscribe mechanism</li> <li>Library version management</li> <li>Energy efficiency machine monitoring</li> </ul>
Integrated fieldbus configurators	<ul> <li>Control network:</li> <li>Modbus Serial Line</li> <li>Modbus TCP</li> <li>Field bus:</li> <li>CANopen</li> <li>CANmotion</li> <li>Connectivity:</li> <li>Profibus-DP</li> <li>Ethernet IP</li> </ul>
Expert and solutions libraries	<ul> <li>PLCopen function blocks for Motion control         <ul> <li>Example: MC_MoveAbsolute, MC_CamIn, ServoDrive,</li> </ul> </li> <li>Packaging function blocks         <ul> <li>Example: Analog film tension control, rotary knife, lateral film position control,</li> <li>Conveying function blocks</li> <li>Example: tracking, turntable, conveyor ,</li> </ul> </li> <li>Hoisting function blocks:         <ul> <li>Hoisting function blocks</li> <li>Hoisting function blocks: anti-sway, anti-crab, hoisting position synchronisation,</li> <li>Application template for industrial crane</li> </ul> </li> <li>Pumping application         <ul> <li>Pumping function blocks</li> <li>Application template for booster</li> <li>Energy Efficiency library</li> </ul> </li> </ul>

### SoMachine software suite Simplify machine programming and commissioning

**Product offer** 

SoMachine software is delivered on a DVD, it is a product oriented version that includes all SoMachine features related to generic hardware (M238, M258, LMC058, XBT GC, Altivar IMC), as well as generic TVDA

The solution features are added to SoMachine by installing its solution extension DVD. It includes all SoMachine solutions hardware, plus all the dedicated application libraries and TVDA.

#### References

- SoMachine is available in 6 languages:
- □ English
- □ French
- □ German
- □ Italian

LMC

XBT module XBT functior

- □ Spanish
- Simplified Chinese.
- System Requirements:
- D Processor: Pentium 4 1,8 GHz or higher, Pentium M 1.0 GHz or equivalent
- RAM Memory: 2 GByte; recommended: 3 GByte □ Hard Disk: 3.5 GB, recommended: 5 GB
- □ OS: Windows XP Professional, Windows 7 Professional 32/64 bytes
- Drive: DVD reader
- □ Display: 1024 × 768 pixel resolution or higher
- Peripherals: a Mouse or compatible pointing device
- □ Peripherals: USB interface
- Web Access: Web registration requires Internet access
- The documentation is supplied in electronic format: complete on-line help plus complementary documentation in pdf version.

#### SoMachine software for generic controllers

Supported controllers	TVDA	Reference		
			<b>DVD</b> (1)	Licence (2) / number & type
	M238	Optimized HW XBT GC	MSD CHNSFNV31	MSD CHNLMUA /1 (Single)
<ul> <li>M258</li> <li>LMC058</li> </ul>	Optimized HW M238 Optimized CANopen M238	+ Trial licence (30 days)	MSD CHNLMTA /10 (Team)	
	<ul> <li>XBT GC</li> <li>XBT GT/GK with control</li> </ul>	Optimized CANopen Mi230 Optimized AS-Interface M238 Optimized CANopen XBT GC/GT/GK	(50 days)	MSD CHNLMFA /100 (Facility)
	function	Optimized CANopen Altivar IMC		
	<ul> <li>Altivar IMC</li> </ul>	Performance HW M258		
		Performance CANopen M258 Performance CANmotion LMC058		

SoMachine solution ex	xtension for Solution con	trollers (3)	
Added	Added TVDA		
controllers		libraries	<b>DVDs and Licence</b>
M238S	Optimized CANopen Altivar	Hoisting	MSD CHLLMUV3
M258S	IMC	Conveying	

000	INIC	Conveying	MSD CHLLMTV31S0
C058S	Performance CANmotion	Packaging	
GC with CANopen	LMC058		MSD CHLLMFV31S0
e type S	Hoisting Optimized CANopen		
GT/GK with control	M238		
n type S	Conveying Performance		
ar IMC with control	CANmotion LMC058		

### e/number & type 81S0 / 1 (Single) **0** / 10 (Team) 0 /100 (Facility)

Altivar IMC with control CANmotion LMC058 function type S	
SoMachine software compatibility and hardware control platfor	rms
Product type	Version
Logic controller Modicon M238	≥ V1.0
HMI controller XBT GC	
Logic controller Modicon M238S	≥ V2.0
Logic controller Modicon M258	
Logic controller Modicon M258S	
Motion controller Modicon LMC058	≥ V3.0
Motion controller Modicon LMC058S	≥ V2.0
HMI controller XBT GT/GK with control function type S, XBT GC with CANopen module type S	
Altivar IMC integrated controller card	≥ V3.1
Altivar IMC integrated controller card with control function type S	≥ V2.0
TM5 CANopen Interface	≥ V3.0
TM7 CANopen Interface block	
Altivar IMC integrated controller card (with patch)	
(1) The DVD is mandatory and delivered with a trial licence.	

(2) One of the 3 type of Licences is mandatory.(3) For this offer, please contact Schneider electric.

(4) Each reference for SoMachine solution software contains: one generic trail DVD, one solution extension V3.1 DVD and one licence.

# 3 - Industrial PCs

## PC Panels Magelis[™]

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□ Separate components and equivalent product table page 3/8
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□ <i>i</i> Display flat screens: 15", 19" page 3/47

## Selection guide

# **Industrial PCs**

PC Panels Magelis[™] Smart and Magelis[™] Compact *i*PC

Industrial PC			Maintenance-free PC Panels
Model			12" Magelis Smart
model			
Screen	Туре		12" colour TFT LCD
	Definition		SVGA 800 x 600
	Number of colours	;	262 144
Touchment	Brightness		≥ 250 cd/m² (adjustable)
Touch panel			Analog resistive, 1 million cycles
СРИ	Processor		Intel Celeron M 1 GHz
	Storage	Storage disks	-
		Compact Flash card (SLC type)	2 GB minimum, expandable to 4 GB (with OS and installed software)
	RAM (1 memory slot)		512 MB SDRAM expandable to 1024 MB
	Expansion slots	PCI bus	-
		Memory cards	1 x free bus slot (taking 1 type II PCMCIA card)
	Ethernet TCP/IP p	ports	2 RJ45 ports: 1 x 10/100/1000BASE-T and 1 x 10/100BASE-T
	I/O ports	On the front panel	1 x USB 2.0 type A
		Other	4 x USB 2.0 type A 1 x COM1 (RS 232C, 9-way male SUB-D) 1 x audio (1 line out, mini-jack) 1 x RAS <i>(1)</i>
Standards and ce	ertifications		<ul> <li>UL 508, CSA 142, IEC 61131-2,</li> <li>ATEX II 3 dust (zone 22) (2)</li> </ul>
Integrated	Operating system		Windows XP Embedded Standard 2009
software	Human Machine I	nterface	Vijeo Designer Run Time 21-day trial version (3)
	Supervision		Vijeo Citect Web Client
	Development envi	ironment	.NET Framework
	Other		Internet Explorer, Outlook Express Client, Microsoft Office Readers
Supply voltage			<ul> <li>24 V (19.228.8 V)</li> <li>100240 V ~ (85265 V)</li> </ul>
Consumption (wi	thout peripherals)		<ul> <li>■ 40 W max. ()</li> <li>■ 95 VA max. (~)</li> </ul>
Degree of protect	tion (when mounted	on enclosure door)	IP 65 for front panel when USB port not in use, IP 20 for rest of PC panel
Dimensions	Overall dimension	s (W x H x D)	313 x 239 x 60 mm
	Cut-out (W x H)		301.5 x 227.5 (+1, -0) mm
Environment	Operating temperating	ature	0+ 50°C
	Vibration resistand during operation	ce	0.075 mm amplitude from 1057.6 Hz, 1 g from 57.6150 Hz, conforming to EN 61131-2
References of Magelis Smart PC	Vijeo Citect Web Client	100240 V $\sim$	MPC ST2 1NAJ 20T
Panels		24 V	MPC ST2 1NDJ 20T
References of PC Panels Magelis	With Hard Disk	100240 V $\sim$	
Compact <i>i</i> PC	With Flash Disk SDD	100240 V $\sim$	
Pages			3/8
-			<ul> <li>(1) Reliability, Availability and Serviceability.</li> <li>(2) version only.</li> </ul>

More technical information on www.schneider-electric.com

### **PC Panels**

Magelis Compact *i*PC 12"



12" colour TFT LCD XGA 1024 x 768 262 144 ≥ 250 cd/m² (adjustable) Analog resistive, 1 million cycles

Intel Celeron M 1.5 GHz

■ For MPC KT2 2NAX 20N: IDE hard disk (HDD) (2.5") ≥ 250 GB ■ For MPC KT2 2MAX 20N: Flash disk (SSD type SLC) ≥ 15 GB

512 MB SDRAM expandable to 1024 MB (1 slot)

1 x free PCI bus slot

1 x free bus slot for Compact Flash card (SLC type) 1 x free bus slot for PCMCIA card (taking a maximum of 1 type II card)

2 RJ45 ports: 1 x 10/100/1000BASE-T and 1 x 10/100BASE-T

1 x USB 2.0 type A 4 x USB 2.0 type A 1 x COM1 (RS 232C, 9-way male SUB-D) 1 x RAS (9-way female SUB-D) 1 x audio (line out, mini jack)

UL 508, IEC 61131-2, cUL

Windows XP Pro SP2

Vijeo Designer Run Time 21-day trial version (3)

-_

_

100...240 V  $\sim$  (85...265 V), conforming to EN 61131-2

120 VA max.

IP 65 for front panel (when USB port on front panel not in use), IP 20 for rest of PC Panel

313 x 239 x 103 mm 301.5 x 227.5 (+1, -0) mm

0...+ 50°C 0.075 mm amplitude from 10...57.6 Hz, 1 g from 57.6...150 Hz, conforming to EN 61131-2

MPC KT2 2NAX 20N

MPC KT2 2MAX 20N

3/9

(3) Unlimited usage available by activation of licence VJDSNRTMPC (sold separately, see page 3/9).

More technical information on www.schneider-electric.com

### Industrial PCs PC Panels Magelis[™] Smart and Magelis[™] Compact *i*PC





### **Presentation**

UL 508 certified as automation products, Magelis Smart and Magelis Compact iPC PC Panels are the natural extension to operator terminals. They have the same cut-out dimensions for mounting, but offer an open operating system.

Magelis Smart and Magelis Compact iPC meet the needs of machine manufacturers, system integrators and users by integrating as closely as possible

- the features of industrial terminals:
- Extremely easy installation and setup
- Compact size
- Openness to Web technologies

 Maintenance-free operation of Magelis Smart due to no rotating parts (no fan or hard disk)

Magelis Smart and Magelis Compact iPC PC Panels offer the openness of the PCs to Windows XP

- Windows XP Embedded on Compact Flash card for Magelis Smart
- Windows XP Pro on Hard disk for Magelis Compact iPC

Therefore, they are compatible with standard Windows applications, such as Internet Explorer, Outlook Express, Office readers and third-party software.

They are also supplied with a 21-day trial version of Vijeo Designer Run Time. Continued use of Vijeo Designer requires a licence which is sold separately (see page 3/7).

Magelis Smart and Compact iPC are "all in one" PC Panels with an IP 65 front panel and a high-definition analog touch panel.

- They have two built-in Ethernet TCP/IP ports:
- 1 x 10/100/1000BASE-T
- 1 x 10/100BASE-T

With these two ports they are suitable for use with Transparent Ready architectures and equipment (combination of Web and Ethernet TCP/IP technologies). They therefore allow the viewing of Web pages either locally or remotely, with the same level of ease.

### **Magelis Smart**

Magelis Smart has a 12" SVGA LCD TFT colour screen and an Intel Celeron M 1 GHz processor. Windows XP Embedded Standard 2009 is installed on its Compact Flash card together with the following software components:

- Internet Explorer browser and Outlook Express e-mail client
- JVM (Java Virtual Machine)
- Windows Terminal Services Client for client/server architectures

■ Office readers for access to device documentation (.pdf, .doc, .xls and .ppt documents)

- Vijeo Citect Web Client
- Vijeo Designer (demo version)
- .NET Framework

With these components Magelis Smart can be used for the system diagnostics, viewing and setting of Schneider Electric Transparent Ready products, as well as for access to FactoryCast services (see "Transparent Ready, embedded Web servers") and access to Vijeo Citect SCADA servers (with a Web Client licence).

Magelis Smart 12" is available for 24 V DC or 100...240 V AC supplies.

### Magelis CompactiPC

Magelis Compact iPC has a 12" XGA LCD TFT colour screen and an Intel Celeron M 1.5 GHz processor. Windows XP Pro is installed, enabling the running of third-party software. It is equipped with:

- 512 MB expandable RAM
- A PCI expansion slot
- A replaceable 250 GB hard disk or a 15 GB Flash Disk (SLC technology SSD)
- A slot for a type II PCMCIA card

Magelis Compact iPC 12" is available for a 100...240 V AC supply.

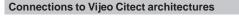
Architecture: page 3/5	Description: page 3/6	References: page 3/8	
		<b>•</b> • • • •	

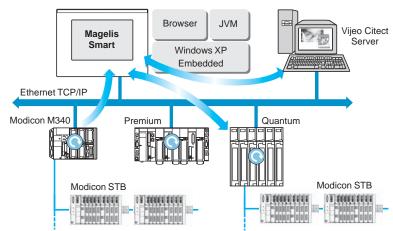
Ar

# Industrial PCs

PC Panels Magelis[™] Smart and Magelis[™] Compact *i*PC

### Magelis Smart and Magelis Compact *i*PC architecture examples





Viieo Browser JVM Citect Magelis Compact *i*PC Windows XP Pro Ethernet TCP/IP Premium Quantum M340 Modicon STB O B RHHHU RUU OB BURNERS O B BUUUU BUU Modicon STB

With a built-in dual Ethernet port, Magelis Smart and Compact *i*PCs can be integrated into "full Ethernet" architectures, such as Transparent Ready (transparent communication on the Ethernet TCP/IP network). Communication services and Web services enable data to be shared and distributed between levels of the Transparent Ready architecture.

Magelis Smart & Compact *i*PC, facilitate the setup of Client stations in relation to Web servers embedded in the automation systems, the field devices (distributed I/O, variable speed drives, identification systems, etc.) and any other IT application.

### Magelis Smart

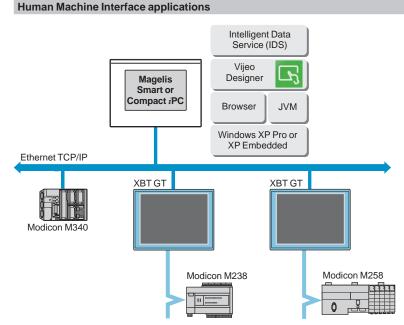
With the pre-installed Vijeo Citect Web Client software and by using Internet Explorer, Magelis Smart 12" products are Web Client on a Vijeo Citect server provided that the Web Client licence is activated on the Vijeo Citect server.

### Magelis Compact iPC

A Vijeo Citect client/server licence can be installed on Magelis Compact *i*PC 12" products, preferably on the Flash Disk version, in order to avoid the risk of a nonoperational storage device. For a long life of the Flash Disk, it is strongly recommended that:

 $\hfill\square$  at least 50% of available disk space is kept available for sharing of written data

and a reasonable storage frequency is maintained



Magelis Smart and Compact *i*PC are supplied with a 21-day trial version of Vijeo Designer Run Time. Continued use of Vijeo Designer requires a licence which is sold separately (see page 3/9).

Vijeo Designer can be used to create control applications for Magelis terminals and industrial PCs. It can be installed on any storage device without reducing service life, the writing operations to disk being limited to archiving.

## Description

## Industrial PCs PC Panels Magelis[™] Smart and Magelis[™] Compact *i*PC



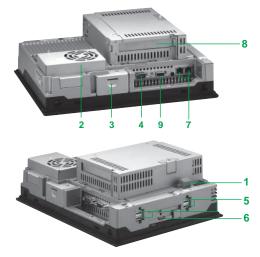
3

## Description (continued)

# **Industrial PCs**

PC Panels Magelis[™] Smart and Magelis[™] Compact *i*PC





### Magelis Compact *i*PC 12" PC panels

Touch screen front panel

- The touch screen front panel of the 12" industrial PCs MPC KT2 2•AX 20N comprise:
- 1 A 12" XGA active matrix colour LCD TFT screen (maximum display area 1024 x 768) with high-definition analog touch panel
- 2 An aluminium alloy front panel with IP 65 membrane (mounted on a hardened steel frame)
- 3 Two LEDs marked:
- □ ON (green), PC switched on
- DISK (green), accessing IDE bus (accessing hard disk memory, etc.)
- 4 A cover plate which provides IP 65 protection when in position and gives access when removed to:
- □ AUSB 2.0 port
- □ A "pencil point" RESET button for restarting the processor

### Underside and side panels

- All expansion slots and connection elements are accessible from the rear of the PC:
- 1 Connector for plugging in the 100 to 240 V  $\sim$  power cable
- 2 One vent equipped with an anti-dust filter and a fan
- 3 A slot for an additional Compact Flash memory card
- 4 One 9-way male SUB-D port marked COM1 for serial links
- 5 4 USB 2.0 ports
- 6 A slot for 1 additional PCMCIA card
- 7 2 RJ45 ports for the Ethernet link:
- □ 1 x 10/100/1000 Mbps
- □ 1 x 10/100 Mbps
- 8 A slot for PCI bus expansion card
- 9 An RAS port

Note: AC versions have an On/Off switch.

Presentation:	Architecture:	References:	
page 3/4	page 3/5	page 3/8	

### Industrial PCs PC Panels Magelis[™] Smart



Magelis Smart PC Panel - 12" screen (1) With 2 GB Compact Flash card Supply voltage Processor Free expansion Vijeo Citect Reference Weight RAM slots kg 24 V .... Celeron M 1 GHz 512 MB expandable to 1 PCMCIA Web client MPC ST2 1NDJ 20T 3.800 1024 MB Celeron M 1 GHz 512 MB expandable to 1 PCMCIA 1024 MB MPC ST2 1NAJ 20T 100...240 V  $\sim$ 3.800 Web client

MPC ST2 1NeJ20T

3

Separate compon	ents for 12" Mag	elis Smart		
Description	Characteristics	Compatible with (2)	Reference	Weight kg
Licence Vijeo Designer Run Time	Unlimited	All 12" Smart models	VJDSNRTMPC	_
RAM expansion kit	512 MB	All 12" Smart models	MPC YK0 5RAM 512	-
	1024 MB	All 12" Smart models	MPC YK2 2RA1 024	-
Compact Flash memory cards	2 GB, blank	All 12" Smart models	MPC YN0 0CF2 00N	0.050
	4 GB, blank	All 12" Smart models	MPC YN0 0CF4 00N	0.050
PCMCIA adaptor for Compact Flash card	Enables a 12" Smart panel to to receive the second Compact Flash card needed for Vijeo Designer in the PCMCIA slot	All 12" Smart models. All memory cards Compact Flash	XBT ZGADT	0.050
Maintenance kit	Includes panel mounting fixings and seals	All 12" Smart models	MPC YK2 OMNT KIT	
Screen protection	Protective film	All 12" Smart models	MPC YK2 0SPS KIT	
Replacement power supply connector	AC connector	All 12" Smart models.	MPC YN0 OPWA CTE	

Magelis Smart equivalent product table			
Туре	Old range	New range	
$\sim$ 12" Smart		MPC ST2 1NAJ 20T + VJDSNRTMPC	

I l
 (1) Magelis Smart are supplied with a trial version of Vijeo Designer Run Time. Unlimited usage available by activation of licence VJDSNRTMPC (see above).

(2) And software package variants when available.

Presentation:
page 3/4

### Industrial PCs PC Panels Magelis[™] Compact *i*PC



MPC KT2 1•AX 20N

Magelis Compa	act <i>i</i> PC PC Panel - 1	2" screen (1)			
With 250 GB minim	num Hard Disk				
Supply voltage	Processor RAM	Free expansion slots	Vijeo Citect	Reference	Weight kg
100240 V ∼	Celeron M 1.5 GHz 512 MB expandable to 1024 MB	1 PCI 1 Compact Flash 1 PCMCIA (type II)	-	<b>MPC KT2 2NAX 20N</b> (1)	4.500
With Flash Disk 15	GB minimum				
100240 V $\sim$	Celeron M 1.5 GHz 512 MB expandable to 1024 MB	1 PCI 1 Compact Flash 1 PCMCIA (type II)	-	<b>MPC KT2 2MAX 20N</b> (1)	4.500

Separate compon	ents for 12" Ma	agelis Compact <i>i</i> PC		
Description	Characteristics	Compatible with (2)	Reference	Weight kg
Vijeo Designer Run Time licence	Unlimited	All Compact <i>i</i> PC 12" models	VJDSNRTMPC	-
RAM expansion kit	512 MB	All Compact <i>i</i> PC 12" models	MPC YK0 5RAM 512	_
	1024 MB	All Compact <i>i</i> PC 12" models	MPC YK2 2RA1 024	_
Hard disk	≥250 GB	12" Compact <i>i</i> PC PC panel MPC KT2 2•AX 20N	MPC YNK2 SHD 20N	_
Flash Disk SSD	≥ 15 GB	12" Compact <i>i</i> PC PC panel MPC KT2 2•AX 20N	MPC YNK2 MSD 20N	_
Maintenance kits	Includes panel mounting fixings and seals	All Compact <i>i</i> PC 12" models	MPC YK2 0MNT KIT	_
Screen protection	Protective film	All Compact iPC 12" models	MPC YK2 0SPS KIT	-
Replacement power supply connector	AC connector	All Compact <i>i</i> PC 12" models	MPC YN0 0PWA CTE	_

Magelis Compact <i>i</i> PC equivalent pr	oduct table	
Туре	Old range	New range
12" Compact <i>i</i> PC		MPC KT2 2NAX 20N + VJDSNRTMPC

(1) Magelis Compact iPC are supplied with a trial version of Vijeo Designer Run Time. Unlimited usage available by activation of licence VJDSNRTMPC (see above).

(2) And software package variants when available.

Presentation:	Architecture:	Description:	
page 3/4	page 3/5	page 3/6	

3

## Selection guide

3

# **Industrial PCs**

Magelis[™] *i*PCs certified for automation Magelis[™] Panel PC and Magelis[™] BOX PC

Type of Magelis <i>i</i>	PC	Magelis Panel PC		
		Optimum range	Universal range	
Industrial enviro	nments	Maintenance-free	Maintenance-free	Standard
Fanless		****	****	****
Diskless		****	****	-
Sizes of colour to front panel bezel		<ul> <li>10.4" Aluminium bezel</li> <li>15" Aluminium or Stainless steel bezel</li> </ul>	<ul> <li>15" Aluminium or Stainler</li> <li>19" Aluminium bezel</li> </ul>	ss steel bezel
<b>CPU</b> (1)	Processor	Intel [®] ATOM™ Z510 (1.1 GHz)	Intel® ATOM™ N270 (1.6 GF	Hz)
	PCI slot	0	0 or 2	
	Storage	Compact Flash card (SLC technology) and integrated SD card reader	Compact Flash card (SLC technology) or Flash disk (SSD) with 5 yea warranty (2)	Hard disk r
	RAM	1 GB	1 or 2 GB	
Operating systen	n	Windows [®] Embedded Standard 2009	Windows [®] Embedded Standard 2009 or Windows [®] XP Professional SP3	Windows® XP Professional SP3
Supply voltage	Aluminium bezel versions	24 V	24 V $=$ or 100240 V $\sim$	
	Stainless steel bezel versions	-	24 V	
Standards and ce	ertifications	<ul> <li>□ C€</li> <li>□ cULus</li> <li>□ cULus Haz Loc</li> <li>□ ATEX II 3 Gas and Dust Zon and</li> <li>□ ATEX II 3 Dust Zone 22 (Uni</li> <li>□ EN 1672-2 Food and bevera seals (Stainless steel bezel ver</li> </ul>	versal range 15" Stainless ste ge processing machines and	
Marine certificati	on	Bridge Class (only 24 V Mag touch screen and Aluminium be		-
Software		Vijeo Designer Run Time Demo separately (VJDSNRTMPC). Vijeo Citect, depending on the r		ited licence, to be ordered
References	Aluminium bezel versions	HMI PWC• •••••	HMI PUCe eeee HMI PUFe eeee	HMI PUHe eeee
	Stainless steel bezel versions	HMI PVC7 D0E01	HMI PTF7 D2P01	HMI PTH7 D2P01

For other options available (interface for backup battery, 3rd serial port, etc.) in made-to-order configuration, see pages 3/31 (Magelis Panel PC) and 3/42 (Magelis BOX PC).
 For general conditions of manufacturer's 5 year warranty: please consult our Customer Care Centre.
 See page 3/44.

Schneider Electric

Magelis Panel PC		Magelis BOX PC			
Performance range		Universal range	1	Performance range	
Harsh	Standard	Maintenance-free	Standard	Harsh	Standard
_	-	****	-	_	-
****	-	****	-	****	-
<ul> <li>15" Aluminium or Stain</li> <li>19" Aluminium bezel</li> </ul>	less steel bezel	Compatible with all scree	ns in the Magelis <i>i</i> Display ra	ange <i>(3)</i>	
Intel [®] Core [™] 2 Duo P8400 chipset	0 (2.26 GHz) + Intel® GM45	Intel [®] ATOM [™] N270 (1.6	GHz)	Intel [®] Core [™] 2 Duo P840 chipset	0 (2.26 GHz) + Intel [®] GM4
0 or 2		1 or 2		2 or 5	
Flash disk (SSD) with 5 year warranty <i>(2)</i>	Hard disk	Compact Flash card (SLC technology) or Flash disk (SSD) with 5 year warranty (2)	Hard disk	Flash disk (SSD) with 5 year warranty <i>(2)</i>	Hard disk
2 or 4 GB		1 or 2 GB		2 or 4 GB	
Windows [®] 7 Ultimate 64-t	bit	Windows® Embedded Standard 2009 or Windows® XP Professional SP3	Windows [®] XP Professional SP3	Windows [®] 7 Ultimate 64-t	bit
24 V == or 100240 V $\sim$		24 V			
100240 V $\sim$		-			
C CE CULus CULus Haz Loc ATEX II 3 Dust Zone 22 versions only) E N 1672-2 Food and b machines and FDA 21CFI (Stainless steel bezel vers	everage processing R 177.206 specific seals	□ C€ □ cULus □ cULus Haz Loc □ ATEX II 3 Dust Zone 2 …	2		
-		Bridge Class	-		

Vijeo Designer Run Time Demo (21-day trial version). Unlimited licence, to be ordered separately (VJDSNRTMPC) Vijeo Citect, depending on the model

HMI PPF• •••••	НМІ РРНе еееее	HMI BUCN ••••• HMI BUFN •••••	HMI BUHN ●●●●●	HMI BPFD ●●●●	HMI BPHD •••••
-	HMI PRH7 A2701	-	-	-	-
3/19 and 3/21		3/34 and 3/35			
See configured Magelis P	anel PC on page 3/31	See configured Magelis B	OX PC on page 3/42		

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More technical information on www.schneider-electric.com

# Industrial PCs Magelis[™] *i*PCs certified for automation Magelis[™] Panel PC and Magelis[™] BOX PC



Schneider Electric Magelis iPC

### Presentation

The Magelis *i*PC offer includes products that are rugged and certified for automation applications. The 15" screen Magelis Panel PC versions with a stainless steel front panel bezel and ATEX certification are particularly recommended for certain specific sectors (food and beverage, chemical, pharmaceutical, gas and petroleum, etc.).

### This offer includes:

Magelis Panel PCs: "All in One" products incorporating an industrial PC and a

- 10", 15" (1) or 19" colour touch screen, available in the following ranges:
- □ Optimum: 10" or 15" touch screen (1)
- □ Universal: 15" (1) or 19" touch screen
- Performance: 15" (1) or 19" touch screen
- Magelis BOX PCs: Industrial PCs available in the following ranges:
- □ Universal (1 or 2 PCI slots)
- □ Performance (2 or 5 PCI slots)

Magelis BOX PCs can be combined with Magelis iDisplay screens (see page 3/44).

This Magelis iPC offer is suitable for numerous applications and different types of automation environment:

■ Maintenance-free environment: Fanless Magelis *i*PC (unaffected by dust, no filters to clean, etc.) and without any rotating parts such as a hard disk. Data storage on

- Compact Flash card or on Flash disk offers good resistance to vibration and long life. Harsh environment: Diskless Magelis iPC
- Standard environment: Magelis iPC with hard disk offering a high storage capacity

#### Rugged and certified for automation applications

With their rugged design and construction, Magelis iPC industrial PCs are specifically designed for use in automation applications. They benefit from the following certifications (2):

- cULus (UL 508, CSA 22.2 no. 142), Industrial Control Equipment
- cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n° 213)
- ATEX II 3 Gas and Dust zone 2/22 in explosive atmospheres (3)
- Germanischer Lloyd (Bridge Class) for marine applications (3)
- C-Tick. GOSTC€

The 15" screen Magelis Panel PCs with stainless steel front panel bezel conform to the food and beverage processing machines standard EN 1672-2. They are fitted with specific seals and conform to the standard FDA 21CFR 177.206.

To simplify maintenance, Magelis iPCs integrate functions for monitoring the internal temperature of both the fans and the hard disk. Magelis iPC Universal and Performance range PCs have options for high availability applications:

- RAID PCI card with 2 redundant hard disks
- Backup battery (requires the battery-backed power supply interface module)

Their resistance to temperature, vibration and shock allows them to operate continuously in extremely difficult environments.

The durability of the offer and possibilities of service options available after discontinuation of sales make them suitable for automation applications. The "book" format and 24 V = power supply of Magelis BOX PCs means they can be easily installed in control system enclosures.

#### Optimized design with the Optimum range

The optimized design of Magelis Optimum Panel PC products provides a rugged, maintenance-free offer, certified for automation applications, at an attractive price. This range can be easily integrated into IT systems.

Magelis Optimum Panel PCs feature LCD TFT LED touch screens with 16 million colours and IP 65 front panel protection when mounted on a panel or an enclosure door and:

- 10.4" (SVGA 800 x 600) or 15" (XGA 1024 x 768) touch screen (1)
- Fanless Intel[®] Atom[™] Z510 processor (1.1 GHz)
- Integrated SD card reader

3 USB ports including 1 on the front panel, 2 gigabit Ethernet ports, 1 communication port

- Windows® Embedded Standard 2009
- 24 V == power supply

(1) The 15" screens are available with an aluminium or stainless steel front panel bezel. (2) A regularly updated list of all standards and certifications issued by independent bodies can be found on our website: www.schneider-electric.com.

Magelis iPC selection guide: page 3/10

Magelis iPC - Panel PC: pages 3/14 and 3/18

Magelis iPC - BOX PC: page 3/34

(3) Depending on the model.

## Presentation (continued)

# Industrial PCs

Magelis[™] *i*PCs certified for automation Magelis[™] Panel PC and Magelis[™] BOX PC



Magelis Panel PC Optimum range with 10.4" or 15" touch screen

### **Presentation** (continued)

### Modular and flexible design with the Universal and Performance ranges

The modular design of Magelis iPCs allows us to provide a complete and coherent offer of referenced products with the Universal and Performance ranges. In addition, the flexibility offered by the modular design allows Magelis Panel PCs (see page 3/31) and Magelis BOX PCs (see page 3/42) to be made-to-order.

Configuration of the Universal and Performance ranges:

- Universal range based on the fanless Intel[®] Atom[™] N270 processor (1.6 GHz) Performance range based on the fanless Intel[®] Core[™] 2 Duo P8400 processor (2.26 GHz) Compact Flash card (SLC technology) ≥ 4 GB, Flash disk ≥ 60 GB, with 5 year
- warranty (1) or hard disk  $\ge$  250 GB, all interchangeable,
- 5 USB ports including 1 on the front panel and 2 gigabit Ethernet ports Up to 2 DVI ports and 3 communication ports
- DVD-RW drive depending on the model
- Different Microsoft operating systems (see page 3/13)
- Power supply: 24 V == (all models) and 100...240 V ~ (Panel PC only)

Magelis Universal and Performance Panel PCs feature LCD TFT LED touch screens with 16 million colours and IP 65 front panel protection when mounted on a panel or an enclosure door and:

- 15" (XGA 1024 x 760) (2) or 19" (SXGA 1280 x 1024) touch screen
- Option of having 2 PCI/PCIe slots

Magelis Universal and Performance BOX PC ranges have 1, 2 or 5 PCI/PCIe slots.

#### Vijeo Designer and Vijeo Citect bundle offer

Magelis iPCs are all supplied with the Vijeo Designer Run Time Demo software (21-day trial version). Vijeo Designer (version ≥ 6.1) includes the Pac Drive driver which enables Magelis iPCs to interact directly with motion controllers.

Magelis iPC and Vijeo Citect bundle offers include the DVD with the software and documentation, the USB key with registered user rights and a 1-year support contract. Updates and upgrades are available by providing the key number and subject to the usual conditions.

As Vijeo Citect applications require a large number of write operations to disk, these bundle offers are based on Magelis iPCs with Flash disk (SSD) to ensure long life and good performance. Vijeo Citect Web Client access is also available with Magelis iPCs that have a Compact Flash disk.

Magelis iPCs enable processing of Vijeo Designer data as they support its "Intelligent Data Service" option (to be installed on Compact Flash disk, minimum 4 GB, and Windows® Embedded Standard 2009 or later).

Magelis iPCs enable maintenance operations in automation environments as they support the "Build Time" configuration versions in Unity and SoMachine programming software. Magelis Performance iPCs (with minimum 2 GB of RAM) are recommended for these configurations.

### Integration in IT structures

The 2 built-in Ethernet ports allow the IT and automation data flows to be separated, reinforcing the overall safety of the system. Magelis iPCs run on Microsoft operating systems, allowing:

- Connection of PC peripherals
- Huge data storage capacity
- Ease of connection to computers and databases
- Simultaneous operation of several programs:
- Vijeo Designer Human/Machine Interface and data traceability with Intelligent Data Service
- Vijeo Citect SCADA supervisor
- Office software including web browsers
- Other software installed by the user

Depending on the model, these operating systems may be:

- Windows® Embedded Standard 2009, write-protected in normal operating mode so as to avoid any unintended operation
- Windows® XP Professional SP3
- Windows® 7 Ultimate 64-bit supporting more than 3 GB of RAM (recommended for SCADA supervisor applications which need significant memory capacity) Windows® Embedded 7 and Windows® 7 Ultimate 32-bit which are also
- available in made-to-order configurations (see pages 3/31 and 3/42).

(1) For general conditions of manufacturer's 5 year warranty: please consult our Customer Care

(2) The 15" screens are available with an aluminium or stainless steel front panel bezel.



Magelis Panel PC Universal and Performance ranges with 15" or 19" touch screen



Magelis BOX PC Universal and Performance ranges 1 2 or 5 PCI slots

## Selection guide

# **Industrial PCs**

Magelis[™] *i*PCs certified for automation Magelis[™] Panel PC Optimum range with 10.4" or 15" touch screen

Туре		Optimum range - 10.4" touch screen
Industrial environmen	its	Maintenance-free (with Aluminium front panel bezel)
Fanless Disklass		****
Diskless		****
Screen	Type Definition Degree of protection Front panel bezel material	10.4" LCD TFT LED touch screen SVGA 800 x 600, 16 million colours IP 65 front panel protection when mounted on panel or enclosure door Aluminum
CPU	Processor Storage RAM (1) Integrated ports	Intel® ATOM [™] Z510 (1.1 GHz) Operating system: Compact Flash card ≥ 2 GB (SLC technology) User: integrated SD card reader 1 GB 2 x Ethernet 10/100/1000 Mbps 1 x USB 2.0 (1 A) on the front panel + 2 x USB 2.0 (1 A) on the underside 1 x RS232C
Operating system		Windows® Embedded Standard 2009
Supply voltage	Voltage Current	24 V (± 25%) Nominal current 1.9 A. Typical inrush current 3 A, 50 A < 300 $\mu s$
Overall dimensions (V	V x H x D)/Cut-out (W x H)	323 x 260 x 72 mm/Cut-out: 303 x 243 mm
Temperature	During operation	050°C, conforming to IEC 61132-2, UL 508
Vibration resistance during operation	Continuous Non-continuous Merchant navy IACS E10	1.75 mm amplitude from 29 Hz, 0.5 g from 9200 Hz (2) 3.5 mm amplitude from 29 Hz, 1 g from 9200 Hz (2) -
Shock resistance	during operation	15 g/11 ms conforming to IEC 60068-2-27 test Ea
Standards and certific	cations	C€, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), C-Tick, GOST
Marine certification	Germanischer Lloyd (Bridge Class)	-
ATEX certification		-
Software		Acrobat Reader, Word/Excel/Power Point Viewer, Framework.Net 3.5, Web browser Vijeo Designer Run Time Demo 21-day trial version <i>(3)</i> Vijeo Citect Web Client
References of Aluminium bezel versions	With Vijeo Designer Run Time Demo, 21-day version <i>(3)</i>	HMI PWC5 D0E01
References of Stainless steel bezel versions	With Vijeo Designer Run Time Demo, 21-day version <i>(3)</i>	-
Pages		3/17
		See configured Magelis Panel PC on page 3/31

Memory capacity not user-expandable; increased capacity available in made-to-order configuration (see page 3/31).
 Conforming to IEC 60068-2-6 Fc.
 Unlimited licence, to be ordered separately (VJDSNRTMPC).

Schneider Belectric

#### Optimum range - 15" touch screen

#### Maintenance-free (with Aluminium or Stainless steel front panel bezel)



15" LCD TFT LED touch screen

*****

XGA 1024 x 768, 16 million colours IP 65 front panel protection when mounted on panel or enclosure door Aluminium or Stainless steel Intel[®] ATOM[™] Z510 (1.1 GHz)

Operating system: Compact Flash card ≥ 2 GB (SLC technology) User: integrated SD card reader 1 GB 2 x Ethernet 10/100/1000 Mbps 1 x USB 2.0 (1 A) on the front panel + 2 x USB 2.0 (1 A) at the bottom 1 x RS232C

Windows® Embedded Standard 2009

24 V  $-\!\!\!-\!\!\!-\!\!\!$  (± 25 %) Nominal current 1.9 A. Typical inrush current 3 A, 50 A < 300  $\mu s$ 

402 x 301 x 72 mm/Cut-out: 383.5 x 282.5 mm

0...50°C, conforming to IEC 61132-2, UL 508

1.75 mm amplitude from 2...9 Hz, 0.5 g from 9...200 Hz (2)
3.5 mm amplitude from 2...9 Hz, 1 g from 9...200 Hz (2)
1 mm from 3...13.2 Hz, 0.7 g from 13.2...100 Hz, 90 minutes endurance
15 g/11 ms conforming to IEC 60068-2-27 test Ea

C€, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), C-Tick, GOST
 EN 1672-2 Food and beverage processing machines and FDA 21CFR 177.206 specific seals (Stainless steel bezel versions only)
 With power supply filter HMI YLFI MAR11 (Aluminium bezel versions only)

ATEX II 3 Gas and Dust zone 22 (Stainless steel bezel versions only)

Acrobat Reader, Word/Excel/Power Point Viewer, Framework.Net 3.5, Web browser Vijeo Designer Run Time Demo 21-day trial version (3) Vijeo Citect Web Client

### HMI PWC7 D0E01

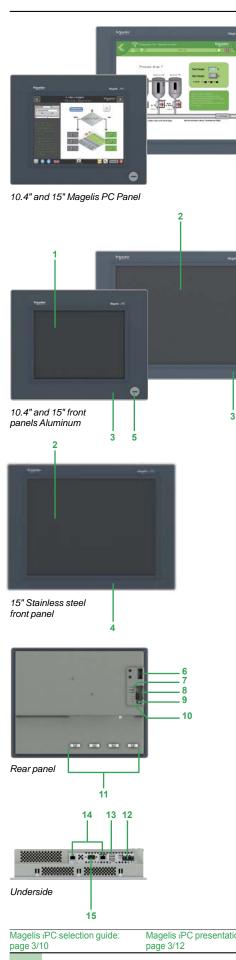
HMI PVC7 D0E01

3/17

See configured Magelis Panel PC on page 3/31

More technical information on www.schneider-electric.com

### Industrial PCs Magelis[™] *i*PCs certified for automation Magelis[™] Panel PC - Optimum range



### Presentation

The Magelis Panel PC Optimum range offers products that are rugged and certified for automation applications. These products, offering an optimized design at an attractive price, also feature compact dimensions, particularly in terms of depth. They can be easily integrated into IT systems.

This Magelis Panel PC Optimum range is specifically designed for use in maintenancefree environments. Versions are available with a stainless steel front panel bezel.

### Overview of the Optimum range

#### Magelis Panel PC Optimum range

The Magelis Panel PC Optimum range is equipped with a fanless  $Intel^{\$}ATOM^{TM}$  Z510 processor (1.1 GHz) and DDR2 RAM (1).

Available with 10.4" or 15" LCD TFT LED touch screen with 16 million colours, this range is specifically designed for maintenance-free environments (fanless, with a solid-state storage disk):

■ HMI PWC5 D0E01 and HMI PWC7 D0E01:

IP 65 front panel protection when mounted on a panel or enclosure door
 Compact Flash card (operating system)/integrated SD card reader (user data)/
 Windows® Embedded Standard 2009/24 V --- power supply, etc.

#### Made-to-order Magelis Panel PC Optimum range

On Magelis Optimum Panel PC bases, it is possible to customize the CPU by selecting the capacity of the RAM and the Compact Flash card. For this HMI PCCW offer see (page 3/31).

#### Description

10.4" (aluminium bezel) and 15" (aluminium or stainless steel bezel) Magelis Optimum Panel PC

#### Front panels

G

5

- 1 10.4" LCD TFT LED touch screen (SVGA 800 x 600) with 16 million colours for HMI PCW5 D0E01:
- □ Brightness: 450 cd/m² (adjustable)
- □ Type of touch panel: Analog resistive film, resolution 4096 x 4096
- □ Typical viewing angle: 120° (vertically)/160° (horizontally)
- 2 15" LCD TFT LED touch screen (XGA 1024 x 768) with 16 million colours for HMI PCW7 D0E01:
- □ Brightness: 350 cd/m² (adjustable)
- □ Type of touch panel: Analog resistive film, resolution 4096 x 4096
- □ Typical viewing angle: 100° (vertically)/160° (horizontally)
- 3 Aluminum alloy front panel providing IP 65 front panel protection when mounted on a panel or enclosure door;
  - mounted on 1.6...10 mm thick support using screw fasteners supplied (2)
- 4 Stainless steel 304 "Scotch Brite[®]" brushed finish front panel enabling an IP 65 degree of protection of the front panel when mounted on a panel or an enclosure door. Mounting on 1.6...10 mm thick support using stainless steel screw fasteners supplied (2). Cleaning simplified due to absence of USB port on front panel (conforms to food and beverage processing machines standard EN 1672-2). Version fitted with specific seals (standard FDA 21 CFR 177.206)
- 5 USB 2.0 port (1 A max.) with screw-on protective cover (only available for Aluminium version); captive protective cover option also available (3)

#### Common rear panel

6 Battery

or

- 7 2 pushbuttons: 1 for the power supply and 1 for resetting
- 8 Compact Flash card (SLC technology) ≥ 2 GB specifically for the operating system
- 9 SD card reader for user data SD card optional (3)
- 10 4 status and power supply LEDs
- 11 Cable clamps

#### Common underside

- 12 24 V == /1.9 A power supply connector
- 13 2 USB 2.0 ports (1 A max.)
- 14 2 Ethernet 10/100/1000 Mbps ports
- 15 RS232C port

(1) Not user-expandable; increased capacity available in made-to-order configuration (see page 3/31).
(2) For installation, please refer to the "product data sheet" on our website www.schneider-electric.com.
(3) To be ordered separately (see page 3/30).

Magelis <i>i</i> PC presentation:	Separate components:	Equivalent product table:
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Schneider Gelectric



# Industrial PCs Magelis[™] *i*PCs certified for automation Magelis[™] Panel PC - Optimum range

PF11031 Magelis Optimum Panel PC - 10.4" or 15" LCD TFT LED touch screen (1) (Intel® ATOM[™] Z510 processor (1.1 GHz)/DDR2 RAM/24 V .... supply voltage) (2) Operating **DDR2 RAM Reference** Screen type Software Storage Weight system (3)kg For maintenance-free environment (with Aluminium front panel bezel) 10.4" LCD TFT HMI PWC5 D0E01 Windows® Viieo Designer Operating system: 1 GB 4 4 0 0 Compact Flash ≥ 2GB Embedded LED touch screen RT Demo (5) HMI PWC5 D0E01 SVGA 800 x 600, Standard 2009 User: 1 SD memory card (screen side) 16 million colours (4) reader (card available IP 65 front panel protection when separately) mounted on a panel or enclosure door 15" LCD TFT LED HMI PWC7 D0E01 6.100 Windows® Vijeo Designer Operating system: 1 GB PF110334 touch screen Embedded RT Demo (5) Compact Flash ≥ 2GB XGA 1024 x 768, Standard 2009 User: 1 SD memory card 16 million colours (4) reader (card available IP 65 front panel protection when separately) mounted on a panel or enclosure door For maintenance-free environment (with Stainless steel front panel bezel) HMI PWC7 D0E01 15" LCD TFT Windows® Vijeo Designer Operating system: 1 GB HMI PVC7 D0E01 6.300 (screen side) LED touch Embedded RT Demo (5) Compact Flash ≥ 2GB screen Standard 2009 User: 1 SD memory card XGA 1024 x 768. (4) reader (card available 16 million colours IP 65 front panel separately) protection when PF 110331 mounted on a panel or enclosure And the second second door (1) For separate components, software and external power supply see page 3/30. (2) For an  $\sim$  supply voltage, an external Phaseo power supply can be used (see page 3/30). (3) Memory capacity not user-expandable; increased capacity available in made-to-order configuration (see page 3/31). HMI PWC• D0E01 (4) Windows® Embedded Standard 2009 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes: - Acrobat Reader, Word/Excel/Power Point Viewer (CPU side) -Framework.Net 3.5

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- Web browser
- Vijeo Citect Web Client
- Vijeo Designer Run Time Demo (5)

(5) Vijeo Designer RT (Run Time) Demo (21-day trial version). Unlimited licence, to be ordered separately (VJDSNRTMPC) (see page 3/30).

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Separate components: page 3/30

Equivalent product table page 3/32

Schneider Belectric

## Selection guide

## **Industrial PCs**

Magelis[™] *i*PCs certified for automation Magelis[™] Panel PC Universal and Performance ranges with 15" touch screen

Туре		Universal range - 15" touch s	screen (no PCI slot)	
Industrial enviro	nments	Maintenance-free (with Alum	inium bezel)	Standard (with Aluminiur bezel)
Fanless		****	****	****
Diskless		****	****	-
Screen	Туре	15" LCD TFT LED touch scree	n	
	Definition	XGA 1024 x 768, 16 million col		
	Degree of protection		en mounted on panel or enclosu	e door
	Front panel bezel material	Aluminum		
CPU (1)	Processor	Intel [®] ATOM [™] N270 (1.6 GHz)		
	PCI slot Storage	– Compact Flash card ≥ 4 GB	Flash disk ≥ 60 GB	Hard disk ≥ 250 GB
		(SLC technology)	with 5 year warranty (3)	
	RAM (2)	1 GB	HMI PUF7  •0P01: 1 GB HMI PUF7 D0PL1: 2 GB	
	Integrated DVD-RW drive	_		
	Slide-in rack for peripheral device	1 x slide-in compact rack for st	orage disk	
	Integrated ports	2 x Ethernet 10/100/1000 Mbp 1 x USB 2.0 (1 A) on the front p 2 x RS232C/1 x DVI (VGA RGI	anel + 4 x USB 2.0 (0.5 and 1 A)	at the top
	Optional ports		otion only available in made-to-or	der configuration) (1)
	Optional RAID PCI card	-		
Operating syster	n	Windows® Embedded Standar	d 2009 Windows® XP Professio	nal SP3
Overall dimension	ons (W x H x D)/Cut-out (W x H)	402 x 301 x 104 mm/Cut-out: 3	83.5 x 282.5 mm	
Temperature	During operation	050°C, conforming to IEC 61	132-2. UL 508	
Vibration	Continuous	1.75 mm amplitude from 29		0.125 g from 5100 Hz
resistance during operation	Non-continuous	(conforming to IEC 60068-2-6 3.5 mm amplitude from 29 H	z, 1 g from 9200 Hz	0.250 g from 5100 Hz
	Merchant navy IACS E10	(conforming to IEC 60068-2-6 1 mm amplitude from 313.2	-	-
Shock resistance	During operation	90 minutes endurance 15 g/11 ms conforming to IEC (	60068-2-27 test Ea	
Standards and c		C€, cULus (UL 508, CSA 22.2 r UL 1604, CSA 22.2 n°213), C-	n°142), cULus Haz Loc Class I Di Tick, GOST	v 2 (ANSI/ISA 12.12.01,
Marine certif.	Germanischer Lloyd (Bridge Class)		r supply filter HMI YLFI MAR11	-
ATEX certificatio		-		
Software	Vijeo Designer Run Time Demo	21-day trial version. Unlimited	licence, to be ordered separately	(VJD SNRTMPC)
References of	24 V	HMI PUC7 D0E01	HMI PUF7 D0P01	HMI PUH7 D0P01
Aluminium bezel		-	HMI PUF7 D0PL1	-
versions (1)	24 V Interface for battery	-	-	-
	24 V Vijeo Citect Full 500 I/O	-	-	-
	100240 V ~	-	HMI PUF7 A0P01	HMI PUH7 A0P01
	100240 V $\sim$ Vijeo Citect Full 500 I/O	-	-	-
References of	24 V	-	-	-
Stainless steel bezel versions (1	100240 V ~	-	-	-
Pages		3/26		

(1) Other options available (interface for backup battery, of a serial port, etc.) in made to order configuration (see page 3/3).
 (2) Memory capacity not user-expandable; increased capacity available in made-to-order configuration (see page 3/31).

More technical information on www.schneider-electric.com

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Universal range (2 PCI slots	5)	Performance range (no l		Performance range (2 P	013003)
Maintenance-free (with Aluminium or Stainless steel bezel)	Standard (with Aluminium or Stainless steel bezel)	Harsh (with Aluminium bezel)	Standard (with Aluminium bezel)	Harsh (with Aluminium bezel)	Standard (with Aluminium or Stainles steel bezel)
* * * * *	****	- ****	-	- ****	-
	-	~ ~ ~ ~ ~	-		-
5" LCD TFT LED touch scre (GA 1024 x 768, 16 million c					
	when mounted on panel or en				
Aluminium or Stainless steel		Aluminum			Aluminium or Stainless steel
ntel [®] ATOM [™] N270 (1.6 GH 2 (1 PCI + 1 PCI Express®)	z)	Intel [®] Core [™] 2 Duo P8400	0 (2.26 GHz) + Intel [®] GM4	5 chipset 2 (1 PCI + 1 PCI Express®	9)
Flash disk $\ge$ 60 GB with 5 year warranty (3)	Hard disk ≥ 250 GB	Flash disk ≥ 60 GB with 5 year warranty <i>(3</i> )	Hard disk ≥ 250 GB	Flash disk $\ge$ 60 GB with 5 year warranty (3)	Hard disk ≥ 250 GB
HMI PoF7 A2P01: 1 GB HMI PUF7 A2PF1: 2 GB	1 GB	HMI PPF7 D0701: 2 GB HMI PPF7 D07F1: 4 GB	2 GB	HMI P•F7 A2701: 2 GB HMI PPF7 A27F1: 4 GB	2 GB
x slide-in compact rack for storage disk (Flash disk or ard disk included) x slide-in rack for DVD-RW drive (included) or storage		– 1 x slide-in compact rack t	for storage disk	1 1 x slide-in compact rack 1 or hard disk included) 1 x slide-in rack for DVD-F storage disk via adaptor (o	RW drive (included) or
x Ethernet 10/100/1000 Mt	•	azal varaian) + 4 × USD 2 (	(0.5  and  1.4) at the tap (f	ar all madala)	
2 x Ethernet 10/100/1000 Mt x USB 2.0 (1 A) on the fron 2 x RS232C/1 x DVI (VGA R x RS232C/RS422/RS485 (	t panel (only for aluminium b GB adaptor, optional) (option only available in mad		. ,	or all models) RAID PCI card with 2 redu	undant hard disks
2 x Ethernet 10/100/1000 Mt 1 x USB 2.0 (1 A) on the fron 2 x RS232C/1 x DVI (VGA R 1 x RS232C/RS422/RS485 ( RAID PCI card with 2 redund	t panel (only for aluminium b GB adaptor, optional) (option only available in mad lant hard disks		()		undant hard disks
2 x Ethernet 10/100/1000 Mt 1 x USB 2.0 (1 A) on the fron 2 x RS232C/1 x DVI (VGA R 1 x RS232C/RS422/RS485 ( RAID PCI card with 2 redund Windows® XP Professional S	t panel (only for aluminium b GB adaptor, optional) (option only available in mad lant hard disks	e-to-order configuration) (1	() Dit		
2 x Ethernet 10/100/1000 Mt 1 x USB 2.0 (1 A) on the fron 2 x RS232C/1 x DVI (VGA R 1 x RS232C/RS422/RS485 ( RAID PCI card with 2 redund Windows® XP Professional S 402 x 301 x 153 mm/Cut-out	t panel (only for aluminium b GB adaptor, optional) (option only available in mad lant hard disks SP3 : 383.5 x 282.5 mm	e-to-order configuration) (1 - Windows [®] 7 Ultimate 64-t	() Dit	RAID PCI card with 2 redu	
2 x Ethernet 10/100/1000 Mt 1 x USB 2.0 (1 A) on the fron 2 x RS232C/1 x DVI (VGA R 1 x RS232C/RS422/RS485 ( RAID PCI card with 2 redund Windows® XP Professional S 402 x 301 x 153 mm/Cut-out 050°C, conforming to IEC 1.75 mm from 29 Hz,	t panel (only for aluminium b GB adaptor, optional) (option only available in mad lant hard disks SP3 : 383.5 x 282.5 mm	e-to-order configuration) (1 - Windows [®] 7 Ultimate 64-t	() bit but: 383.5 x 282.5 mm	RAID PCI card with 2 redu	out: 383.5 x 282.5 mm
disk via adaptor (optional) 2 x Ethernet 10/100/1000 Mt 1 x USB 2.0 (1 A) on the fron 2 x RS232C/1 x DVI (VGA R 1 x RS232C/RS422/RS485 ( RAID PCI card with 2 redund Windows® XP Professional S 402 x 301 x 153 mm/Cut-out 050°C, conforming to IEC 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4)	t panel (only for aluminium b GB adaptor, optional) (option only available in mad dant hard disks SP3 : 383.5 x 282.5 mm 61132-2, UL 508	e-to-order configuration) (1 - Windows® 7 Ultimate 64-t 402 x 301 x 119 mm/Cut-o 1.75 mm from 29 Hz,	() bit but: 383.5 x 282.5 mm	RAID PCI card with 2 redu 402 x 301 x 168 mm/Cut-o 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4)	out: 383.5 x 282.5 mm 0.125 g from 5100 Hz
2 x Ethernet 10/100/1000 Mt 1 x USB 2.0 (1 A) on the fron 2 x RS232C/1 x DVI (VGA R 1 x RS232C/RS422/RS485 ( RAID PCI card with 2 redund Mindows® XP Professional S 402 x 301 x 153 mm/Cut-out 050°C, conforming to IEC 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) -	t panel (only for aluminium b GB adaptor, optional) (option only available in mad dant hard disks SP3 : 383.5 x 282.5 mm 61132-2, UL 508 0.125 g from 5100 Hz 0.250 g from 5100 Hz	e-to-order configuration) (1 - Windows® 7 Ultimate 64-t 402 x 301 x 119 mm/Cut-o 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz,	1) bit but: 383.5 x 282.5 mm 0.125 g from 5100 Hz	RAID PCI card with 2 redu 402 x 301 x 168 mm/Cut- 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz,	
2 x Ethernet 10/100/1000 Mt 1 x USB 2.0 (1 A) on the from 2 x RS232C/1 x DVI (VGA R 1 x RS232C/RS422/RS485 ( RAID PCI card with 2 redund Windows® XP Professional S 402 x 301 x 153 mm/Cut-out 050°C, conforming to IEC 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) - 15 g/11 ms conforming to IEC 1 CE, cULus (UL 508, CSA 2	t panel (only for aluminium b GB adaptor, optional) (option only available in mad dant hard disks SP3 : 383.5 x 282.5 mm 61132-2, UL 508 0.125 g from 5100 Hz 0.250 g from 5100 Hz	e-to-order configuration) (1 - Windows® 7 Ultimate 64-t 402 x 301 x 119 mm/Cut-c 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) Class I Div 2 (ANSI/ISA 12.	1) bit but: 383.5 x 282.5 mm 0.125 g from 5100 Hz 0.250 g from 5100 Hz 12.01, UL 1604, CSA 22.:	RAID PCI card with 2 redu 402 x 301 x 168 mm/Cut-d 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) 2 n°213), C-Tick, GOST	out: 383.5 x 282.5 mm 0.125 g from 5100 Hz
2 x Ethernet 10/100/1000 Mt 1 x USB 2.0 (1 A) on the fron 2 x RS232C/1 x DVI (VGA R 1 x RS232C/RS422/RS485 ( RAID PCI card with 2 redund Windows® XP Professional S 402 x 301 x 153 mm/Cut-out 050°C, conforming to IEC 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) - 15 g/11 ms conforming to IEC 2 C€, cULus (UL 508, CSA 2 2 EN 1672-2 Food and bever	t panel (only for aluminium b GB adaptor, optional) (option only available in mad dant hard disks SP3 : 383.5 x 282.5 mm 61132-2, UL 508 0.125 g from 5100 Hz 0.250 g from 5100 Hz C 60068-2-27 test Ea 22.2 n°142), cULus Haz Loc	e-to-order configuration) (1 - Windows® 7 Ultimate 64-t 402 x 301 x 119 mm/Cut-o 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) Class I Div 2 (ANSI/ISA 12. and FDA 21CFR 177.206 s	1) bit but: 383.5 x 282.5 mm 0.125 g from 5100 Hz 0.250 g from 5100 Hz 12.01, UL 1604, CSA 22.:	RAID PCI card with 2 redu 402 x 301 x 168 mm/Cut-d 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) 2 n°213), C-Tick, GOST	out: 383.5 x 282.5 mm 0.125 g from 5100 Hz
2 x Ethernet 10/100/1000 Mt 1 x USB 2.0 (1 A) on the from 2 x RS232C/1 x DVI (VGA R 1 x RS232C/RS422/RS485 ( RAID PCI card with 2 redund Windows® XP Professional S 402 x 301 x 153 mm/Cut-out 050°C, conforming to IEC 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) - 15 g/11 ms conforming to IEC C C, cULus (UL 508, CSA 2 E N 1672-2 Food and beve ATEX II 3 Gas and Dust zone 2	t panel (only for aluminium b GB adaptor, optional) (option only available in mad dant hard disks SP3 : 383.5 x 282.5 mm 61132-2, UL 508 0.125 g from 5100 Hz 0.250 g from 5100 Hz C 60068-2-27 test Ea 22.2 n°142), cULus Haz Loc erage processing machines	e-to-order configuration) (1 - Windows® 7 Ultimate 64-t 402 x 301 x 119 mm/Cut-o 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) Class I Div 2 (ANSI/ISA 12, and FDA 21CFR 177.206 s hs only)	1) bit but: 383.5 x 282.5 mm 0.125 g from 5100 Hz 0.250 g from 5100 Hz 12.01, UL 1604, CSA 22.:	RAID PCI card with 2 redu 402 x 301 x 168 mm/Cut-d 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) 2 n°213), C-Tick, GOST	out: 383.5 x 282.5 mm 0.125 g from 5100 Hz
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2 x Ethernet 10/100/1000 Mt 1 x USB 2.0 (1 A) on the from 2 x RS232C/1 x DVI (VGA R 1 x RS232C/RS422/RS485 ( RAID PCI card with 2 redund Windows® XP Professional S 402 x 301 x 153 mm/Cut-out 050°C, conforming to IEC 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) - 15 g/11 ms conforming to IEC 2 C€, cULus (UL 508, CSA 2 2 EN 1672-2 Food and beve - ATEX II 3 Gas and Dust zone 2	t panel (only for aluminium b GB adaptor, optional) (option only available in mad lant hard disks SP3 : 383.5 x 282.5 mm 61132-2, UL 508 0.125 g from 5100 Hz 0.250 g from 5100 Hz C 60068-2-27 test Ea 22.2 n°142), cULus Haz Loc erage processing machines 2 (Stainless steel bezel version ed licence, to be ordered sep	e-to-order configuration) (1 - Windows® 7 Ultimate 64-t 402 x 301 x 119 mm/Cut-o 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) Class I Div 2 (ANSI/ISA 12, and FDA 21CFR 177.206 s ns only) arately (VJD SNRTMPC)	() bit 0.125 g from 5100 Hz 0.250 g from 5100 Hz 12.01, UL 1604, CSA 22 pecific seals (Stainless st	RAID PCI card with 2 redu 402 x 301 x 168 mm/Cut- 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) 2 n°213), C-Tick, GOST eel bezel versions only)	out: 383.5 x 282.5 mm 0.125 g from 5100 Hz 0.250 g from 5100 Hz
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2 x Ethernet 10/100/1000 Mt 2 x USB 2.0 (1 A) on the from 2 x RS232C/1 x DVI (VGA R 2 x RS232C/RS422/RS485 ( RAID PCI card with 2 redund Windows® XP Professional S 402 x 301 x 153 mm/Cut-out 050°C, conforming to IEC 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 15 g/11 ms conforming to IEC 1 C (C, CULus (UL 508, CSA 2 1 EN 1672-2 Food and beve ATEX II 3 Gas and Dust zone 2 21-day trial version. Unlimite	t panel (only for aluminium b GB adaptor, optional) (option only available in mad dant hard disks SP3 : 383.5 x 282.5 mm 61132-2, UL 508 0.125 g from 5100 Hz 0.250 g from 5100 Hz 0.250 g from 5100 Hz C 60068-2-27 test Ea 22.2 n°142), cULus Haz Loc erage processing machines 2 (Stainless steel bezel version ed licence, to be ordered sep HMI PUH7 D2P01 - -	e-to-order configuration) (1 - Windows® 7 Ultimate 64-b 402 x 301 x 119 mm/Cut-o 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) Class I Div 2 (ANSI/ISA 12, and FDA 21CFR 177.206 s is only) arately (VJD SNRTMPC) HMI PPF7 D0701 -	<ul> <li>it</li> <li>bit</li> <li>but: 383.5 x 282.5 mm</li> <li>0.125 g from 5100 Hz</li> <li>0.250 g from 5100 Hz</li> <li>12.01, UL 1604, CSA 22</li> <li>pecific seals (Stainless st</li> </ul>	RAID PCI card with 2 redu 402 x 301 x 168 mm/Cut- 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) 2 n°213), C-Tick, GOST eel bezel versions only)	Dut: 383.5 x 282.5 mm 0.125 g from 5100 Hz 0.250 g from 5100 Hz HMI PPH7 D2701 – HMI PPH7 B2701 –
2 x Ethernet 10/100/1000 Mt 1 x USB 2.0 (1 A) on the from 2 x RS232C/1 x DVI (VGA R 1 x RS232C/RS422/RS485 ( RAID PCI card with 2 redund Windows® XP Professional S 402 x 301 x 153 mm/Cut-out 050°C, conforming to IEC 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) - 15 g/11 ms conforming to IEC 2 C€, cULus (UL 508, CSA 2 2 EN 1672-2 Food and beve - ATEX II 3 Gas and Dust zone 2 21-day trial version. Unlimite - - HII PUF7 A2P01	t panel (only for aluminium b GB adaptor, optional) (option only available in mad lant hard disks SP3 : 383.5 x 282.5 mm 61132-2, UL 508 0.125 g from 5100 Hz 0.250 g from 5100 Hz C 60068-2-27 test Ea 22.2 n°142), cULus Haz Loc erage processing machines 2 (Stainless steel bezel version ed licence, to be ordered sep	e-to-order configuration) (1 - Windows® 7 Ultimate 64-b 402 x 301 x 119 mm/Cut-o 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) Class I Div 2 (ANSI/ISA 12, and FDA 21CFR 177.206 s is only) arately (VJD SNRTMPC) HMI PPF7 D0701 - -	() bit but: 383.5 x 282.5 mm 0.125 g from 5100 Hz 0.250 g from 5100 Hz 12.01, UL 1604, CSA 22.: pecific seals (Stainless st HMI PPH7 D0701	RAID PCI card with 2 redu 402 x 301 x 168 mm/Cut-o 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) 2 n°213), C-Tick, GOST eel bezel versions only)	Dut: 383.5 x 282.5 mm 0.125 g from 5100 Hz 0.250 g from 5100 Hz HMI PPH7 D2701 – HMI PPH7 B2701
2 x Ethernet 10/100/1000 Mt 1 x USB 2.0 (1 A) on the from 2 x RS232C/1 x DVI (VGA R 1 x RS232C/RS422/RS485 ( RAID PCI card with 2 redund Windows® XP Professional S 402 x 301 x 153 mm/Cut-out 050°C, conforming to IEC 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) - 15 g/11 ms conforming to IEC 2 C€, cULus (UL 508, CSA 2 2 EN 1672-2 Food and beve - ATEX II 3 Gas and Dust zone 2 21-day trial version. Unlimite - - - HMI PUF7 A2P01 HMI PUF7 A2PF1	t panel (only for aluminium b GB adaptor, optional) (option only available in mad dant hard disks SP3 : 383.5 x 282.5 mm 61132-2, UL 508 0.125 g from 5100 Hz 0.250 g from 5100 Hz 0.250 g from 5100 Hz 2.2 2 n°142), cULus Haz Loc erage processing machines 2 (Stainless steel bezel version d licence, to be ordered sep HMI PUH7 D2P01 – HMI PUH7 A2P01 –	e-to-order configuration) (1 - Windows® 7 Ultimate 64-t 402 x 301 x 119 mm/Cut-o 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) Class I Div 2 (ANSI/ISA 12, and FDA 21CFR 177.206 s is only) arately (VJD SNRTMPC) HMI PPF7 D0701 - HMI PPF7 D07F1	<ul> <li>it</li> <li>bit</li> <li>but: 383.5 x 282.5 mm</li> <li>0.125 g from 5100 Hz</li> <li>0.250 g from 5100 Hz</li> <li>12.01, UL 1604, CSA 22</li> <li>pecific seals (Stainless st</li> <li>HMI PPH7 D0701</li> <li>–</li> <li>–</li> <li>–</li> </ul>	RAID PCI card with 2 redu 402 x 301 x 168 mm/Cut-o 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) 2 n°213), C-Tick, GOST eel bezel versions only)	Dut: 383.5 x 282.5 mm 0.125 g from 5100 Hz 0.250 g from 5100 Hz
2 x Ethernet 10/100/1000 Mt 1 x USB 2.0 (1 A) on the from 2 x RS232C/1 x DVI (VGA R 1 x RS232C/RS422/RS485 ( RAID PCI card with 2 redund Windows® XP Professional S 402 x 301 x 153 mm/Cut-out 050°C, conforming to IEC 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) - 15 g/11 ms conforming to IEC C (C, CULus (UL 508, CSA 2 EN 1672-2 Food and beve ATEX II 3 Gas and Dust zone 2 21-day trial version. Unlimite - HMI PUF7 A2P01 HMI PUF7 A2PF1	t panel (only for aluminium b GB adaptor, optional) (option only available in mad dant hard disks SP3 : 383.5 x 282.5 mm 61132-2, UL 508 0.125 g from 5100 Hz 0.250 g from 5100 Hz 0.250 g from 5100 Hz C 60068-2-27 test Ea 22.2 n°142), cULus Haz Loc erage processing machines 2 (Stainless steel bezel version ed licence, to be ordered sep HMI PUH7 D2P01 - -	e-to-order configuration) (1 - Windows® 7 Ultimate 64-t 402 x 301 x 119 mm/Cut-c 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) Class I Div 2 (ANSI/ISA 12, and FDA 21CFR 177.206 s ns only) arately (VJD SNRTMPC) HMI PPF7 D0701 - HMI PPF7 D07F1 -	() bit but: 383.5 x 282.5 mm 0.125 g from 5100 Hz 0.250 g from 5100 Hz 12.01, UL 1604, CSA 22 pecific seals (Stainless st HMI PPH7 D0701 - - HMI PPH7 A0701	RAID PCI card with 2 redu 402 x 301 x 168 mm/Cut-d 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) 2 n°213), C-Tick, GOST eel bezel versions only) - - HMI PPF7 A2701 HMI PPF7 A27F1 -	Dut: 383.5 x 282.5 mm 0.125 g from 5100 Hz 0.250 g from 5100 Hz HMI PPH7 D2701 - HMI PPH7 B2701 - HMI PPH7 A2701 - -
2 x Ethernet 10/100/1000 Mt 1 x USB 2.0 (1 A) on the from 2 x RS232C/1 x DVI (VGA R 1 x RS232C/RS422/RS485 ( RAID PCI card with 2 redund Windows® XP Professional S 402 x 301 x 153 mm/Cut-out 050°C, conforming to IEC 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) - 15 g/11 ms conforming to IEC C C, cULus (UL 508, CSA 2 E N 1672-2 Food and beve ATEX II 3 Gas and Dust zone 2	t panel (only for aluminium b GB adaptor, optional) (option only available in mad dant hard disks SP3 : 383.5 x 282.5 mm 61132-2, UL 508 0.125 g from 5100 Hz 0.250 g from 5100 Hz 0.250 g from 5100 Hz 2.2 2 n°142), cULus Haz Loc erage processing machines 2 (Stainless steel bezel version d licence, to be ordered sep HMI PUH7 D2P01 – HMI PUH7 A2P01 –	e-to-order configuration) (1 - Windows® 7 Ultimate 64-t 402 x 301 x 119 mm/Cut-c 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) Class I Div 2 (ANSI/ISA 12, and FDA 21CFR 177.206 s ns only) arately (VJD SNRTMPC) HMI PPF7 D0701 - HMI PPF7 D07F1 -	() bit but: 383.5 x 282.5 mm 0.125 g from 5100 Hz 0.250 g from 5100 Hz 12.01, UL 1604, CSA 22 pecific seals (Stainless st HMI PPH7 D0701 - - HMI PPH7 A0701	RAID PCI card with 2 redu 402 x 301 x 168 mm/Cut-o 1.75 mm from 29 Hz, 0.5 g from 9200 Hz (4) 3.5 mm from 29 Hz, 1 g from 9200 Hz (4) 2 n°213), C-Tick, GOST eel bezel versions only) - - HMI PPF7 A2701 HMI PPF7 A27F1	Dut: 383.5 x 282.5 mm 0.125 g from 5100 Hz 0.250 g from 5100 Hz HMI PPH7 D2701 - HMI PPH7 B2701 - HMI PPH7 A2701 -

More technical information on www.schneider-electric.com

## Selection guide (continued)

## **Industrial PCs**

Magelis[™] *i*PCs certified for automation Magelis[™] Panel PC Universal and Performance ranges with 19" touch screen

Туре		Universal range - 19" touch sc	reen (no PCI slot)	
Industrial enviro	nments	Maintenance-free (with Alumin	nium bezel)	Standard (with Aluminiun bezel)
Fanless		****	****	****
Diskless		****	****	-
Screen	Туре	19" LCD TFT LED touch screen		
	Resolution	SXGA 1280 x 1024, 16 million co	blours	
	Degree of protection	IP 65 front panel protection when	n mounted on panel or enclosur	e door
	Front panel bezel material	Aluminum		
CPU	Processor	Intel®ATOM™ N270 (1.6 GHz)		
(1)	PCI slot	-		
	Storage	Compact Flash card ≥ 4 GB (SLC technology)	Flash disk $\ge$ 60 GB with 5 year warranty (3)	Hard disk ≥ 250 GB
	RAM (2)	1 GB	HMI PUF9 D0P01: 1 GB HMI PUF9 D0PF1: 2 GB	1 GB
	Integrated DVD-RW drive Slide-in rack for peripheral device	<ul> <li>1 x slide-in compact rack for stor</li> </ul>		
	Integrated ports	2 x Ethernet 10/100/1000 Mbps 1 x USB 2.0 (1 A) on the front par	nel + 4 x USB 2.0 (0.5 and 1 A)	at the top
		2 x RS232C/1 x DVI (VGA RGB		
	Optional ports (1)	1 x RS232C/RS422/RS485 (opti	ion only available in made-to-or	der configuration) (1)
	Optional RAID PCI card	-		
Operating syste	m	Windows [®] Embedded Standard 20	009 Windows® XP Professiona	al SP3
Overall dimension	ons (W x H x D)/Cut-out (W x H)	480 x 380 x 114 mm/Cut-out: 459	9.5 x 359.5 mm	
Temperature	During operation	050°C, conforming to IEC 611	32-2. UL 508	
Vibration	Continuous	1.75 mm amplitude from 29 Hz		0.125 g from 5100 Hz
resistance				
during operation	Non-continuous	3.5 mm amplitude from 29 Hz,		0.250 g from 5100 Hz
Shock resistance	e During operation	1 mm amplitude from 313.2 Hz 90 minutes endurance 15 g/11 ms conforming to IEC 60		-
		- 3		
Standards and c	ertifications	CE, cULus (UL 508, CSA 22.2 n°		v 2 (ANSI/ISA 12.12.01,
	ertifications Germanischer Lloyd (Bridge Class)	C€, cULus (UL 508, CSA 22.2 n° UL 1604, CSA 22.2 n°213), C-Tic 24 V Magelis Panel PC equip HMI YLFI MAR11	ck, GOST	v 2 (ANSI/ISA 12.12.01, -
Standards and c Marine certification		UL 1604, CSA 22.2 n°213), C-Tic 24 V Magelis Panel PC equipp	ck, GOST ped with a power supply filter	-
Standards and c Marine	Germanischer Lloyd (Bridge Class)	UL 1604, CSA 22.2 n°213), C-Tid 24 V Magelis Panel PC equip HMI YLFI MAR11 21-day trial version. Unlimited lic	ck, GOST ped with a power supply filter sence, to be ordered separately	- (VJDSNRTMPC)
Standards and c Marine certification Software	Germanischer Lloyd (Bridge Class) Vijeo Designer Run Time Demo	UL 1604, CSA 22.2 n°213), C-Tic 24 V Magelis Panel PC equip HMI YLFI MAR11	ck, GOST ped with a power supply filter	-
Standards and c Marine certification Software	Germanischer Lloyd (Bridge Class)         Vijeo Designer Run Time Demo         24 V         24 V         Vijeo Citect Lite 1200 I/O	UL 1604, CSA 22.2 n°213), C-Tid 24 V Magelis Panel PC equip HMI YLFI MAR11 21-day trial version. Unlimited lic	ck, GOST ped with a power supply filter cence, to be ordered separately HMI PUF9 D0P01 –	- (VJDSNRTMPC) HMI PUH9 D0P01
Standards and c Marine certification Software	Germanischer Lloyd (Bridge Class)         Vijeo Designer Run Time Demo         24 V ==         Vijeo Citect Lite 1200 I/O         24 V ==         Vijeo Citect Full 500 I/O	UL 1604, CSA 22.2 n°213), C-Tid 24 V Magelis Panel PC equip HMI YLFI MAR11 21-day trial version. Unlimited lic	ck, GOST ped with a power supply filter sence, to be ordered separately HMI PUF9 D0P01 – HMI PUF9 D0PF1	- (VJDSNRTMPC) HMI PUH9 D0P01 - -
Standards and c Marine certification Software	Germanischer Lloyd (Bridge Class)         Vijeo Designer Run Time Demo         24 V ==         24 V ==         Vijeo Citect Lite 1200 I/O         24 V ==         Vijeo Citect Full 500 I/O         100240 V ~	UL 1604, CSA 22.2 n°213), C-Tid 24 V Magelis Panel PC equip HMI YLFI MAR11 21-day trial version. Unlimited lic	ck, GOST ped with a power supply filter sence, to be ordered separately HMI PUF9 D0P01 – HMI PUF9 D0PF1 –	- (VJDSNRTMPC) HMI PUH9 D0P01 - HMI PUH9 A0P01
Standards and c Marine certification Software	Germanischer Lloyd (Bridge Class)         Vijeo Designer Run Time Demo         24 V ==         Vijeo Citect Lite 1200 I/O         24 V ==         Vijeo Citect Full 500 I/O	UL 1604, CSA 22.2 n°213), C-Tid 24 V Magelis Panel PC equip HMI YLFI MAR11 21-day trial version. Unlimited lic	ck, GOST ped with a power supply filter sence, to be ordered separately HMI PUF9 D0P01 – HMI PUF9 D0PF1	- (VJDSNRTMPC) HMI PUH9 D0P01 - -

Other options available (interface for backup battery, 3rd serial port, etc.) in made-to-order configuration (see page 3/31).
 Memory capacity not user-expandable; increased capacity available in made-to-order configuration (see page 3/31).

### 3/20

Universal range - 19" touch screen (2 PCI slots)		Performance range - 19" (no PCI slot)	touch screen	Performance range - 19" touch screen (2 PCI slots)		
Maintenance-free (with Aluminium bezel)	Standard (with Aluminium bezel)	Harsh (with Aluminium bezel)	Standard (with Aluminium bezel)	Harsh (with Aluminium bezel)	Standard (with Aluminium bezel)	
	0					
****	****	-	-	-	-	
****	-	****	-	****	-	
19" LCD TFT LED touch so SXGA 1280 x 1024, 16 mill IP 65 front panel protection Aluminum		r enclosure door				
Intel [®] ATOM [™] N270 (1.6 G	iHz)	Intel [®] Core [™] 2 Duo P8400	(2.26 GHz) + Intel® GM45 c	chipset		
2 (1 PCI + 1 PCI Express®)	)	-		2 (1 PCI + 1 PCI Express®)		
Flash disk ≥ 60 GB with 5 year warranty <i>(3</i> )	Hard disk ≥ 250 GB	Flash disk ≥ 60 GB with 5 year warranty <i>(3</i> )	Hard disk ≥ 250 GB	Flash disk ≥ 60 GB with 5 year warranty (3)	Hard disk ≥ 250 GB	
HMI PUF9 A2P01: 1 GB HMI PUF9 A2PF1: 2 GB	1 GB	HMI PPF9 D0701: 2 GB HMI PPF9 D07F1: 4 GB	2 GB	HMI PPF9 A2701: 2 GB HMI PPF9 A27F1: 4 GB	2 GB	
1		-		1		
1 x slide-in compact rack for or hard disk included) 1 x slide-in rack for DVD-R storage disk via adaptor (o	W drive (included) or			1 x slide-in compact rack for storage disk (Flash dis or hard disk included) 1 x slide-in rack for DVD-RW drive (included) or storage disk via adaptor (optional)		
2 x Ethernet 10/100/1000 M	Vlbps					
1 x USB 2.0 (1 A) on the fro	ont panel + 4 x USB 2.0 (0.5	and 1 A) at the top				
2 x RS232C/1 x DVI (VGA						
		ade-to-order configuration)	(1)			
RAID PCI card with 2 redui	ndant hard disks	-		RAID PCI card with 2 redu	ndant hard disks	
Windows [®] XP Professional	ISP3	Windows® 7 Ultimate 64-bi	it			
480 x 380 x 153 mm/Cut-o	ut: 459.5 x 359.5 mm	480 x 380 x 129 mm/Cut-o	ut: 459.5 x 359.5 mm	480 x 380 x 168 mm/Cut-o	ut: 459.5 x 359.5 mm	
050°C, conforming to IE	C 61132-2, UL 508					
1.75 mm from 29 Hz, 0.5 g from 9200 Hz <i>(4)</i>	0.125 g from 5100 Hz	1.75 mm from 29 Hz, 0.5 g from 9200 Hz <i>(4)</i>	0.125 g from 5100 Hz	1.75 mm from 29 Hz, 0.5 g from 9200 Hz <i>(4)</i>	0.125 g from 5100 Hz	
3.5 mm from 29 Hz, 1 g from 9200 Hz <i>(4)</i>	0.250 g from 5100 Hz	3.5 mm from 29 Hz, 1 g from 9200 Hz <i>(4)</i>	0.250 g from 5100 Hz	3.5 mm from 29 Hz, 1 g from 9200 Hz <i>(4)</i>	0.250 g from 5100 Hz	
-						

### 15 g/11 ms conforming to IEC 60068-2-27 test Ea

CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), C-Tick, GOST

-

21-day trial version. Unlimited licence, to be ordered separately (VJDSNRTMPC)

-	HMI PUH9 D2P01	HMI PPF9 D0701	HMI PPH9 D0701	-	HMI PPH9 D2701
-	-	-	-	-	-
-	-	HMI PPF9 D07F1	-	-	-
HMI PUF9 A2P01	HMI PUH9 A2P01	-	HMI PPH9 A0701	HMI PPF9 A2701	HMI PPH9 A2701
HMI PUF9 A2PF1	-	-	-	HMI PPF9 A27F1	-
3/28		3/29			

See configured Magelis Panel PC on page 3/31

(3) For general conditions of manufacturer's 5 year warranty: please consult our Customer Care Centre.
 (4) Conforming to IEC 60068-2-6 Fc.

More technical information on www.schneider-electric.com

## Presentation

## Industrial PCs

Magelis[™] *i*PCs certified for automation Magelis[™] Panel PC Universal and Performance ranges



Magelis Panel PC 15" and 19"

3

### Presentation

The Magelis Panel PC Universal and Performance ranges offer products that are rugged and certified for automation applications.

Both ranges, available with 15" or 19" screen, are suitable for different types of use: In a maintenance-free environment

- In a harsh environment
- In a standard environment

The 15" screen Magelis Panel PC versions with a stainless steel front panel bezel and ATEX certification are particularly recommended for certain targeted sectors (food and beverage, chemical, pharmaceutical, gas and petroleum, etc.).

The modular design of the Panel PCs allows us to provide a complete and coherent offer of referenced products with the Universal and Performance ranges. In addition to the referenced offer, the flexibility offered by the modular design allows Magelis Panel PCs to be made-to-order (see page 3/31).

Overview of the range

Magelis Panel PC Universal range (1) (2)

The Magelis Universal Panel PC is equipped with a fanless Intel® ATOM™ N270 processor (1.6 GHz) and DDR2 RAM (3).

Featuring a 15" or 19" LCD TFT LED 16 million colour touch screen and IP 65 front panel protection when mounted on a panel or enclosure door, this range is designed for the following environments:

- Maintenance-free (fanless, with solid-state storage disk):
- □ HMI PUC7 D0E01 and HMI PUC9 D0E01:
  - No PCI slot
  - Compact Flash card/Windows® Embedded Standard 2009
  - 24 V --- power supply

□ HMI PUF7 D0P01, HMI PUF7 D0PL1, HMI PUF7 A0P01, HMI PUF9 D0P01 and HMI PUF9 D0PF1:

- No PCI slot
- Flash disk/Windows® XP Professional SP3
- 24 V  $\equiv$  or 100...240 V  $\sim$  power supply
- □ HMI PUF7 A2P01, HMI PUF7 A2PF1, HMI PUF9 A2P01 and HMI PUF9 A2PF1:
  - 1 PCI + 1 PCI Express®
  - Flash disk/Windows® XP Professional SP3
  - 100...240 V  $\sim$  power supply

 Maintenance-free (fanless, with solid-state storage disk) and with Stainless steel front panel bezel:

- HMI PTF7 D2P01:
  - 1 PCI + 1 PCI Express[®]
  - Flash disk/Windows® XP Professional SP3
  - 24 V --- power supply
- Standard industrial environments (with hard disk):
- □ HMI PUH7 D0P01, HMI PUH7 A0P01, HMI PUH9 D0P01 and HMI PUH9 A0P01:
  - No PCI slot
    - Hard disk/Windows® XP Professional SP3
    - 24 V  $\equiv$  or 100...240 V  $\sim$  power supply
- □ HMI PUH7 D2P01, HMI PUH7 A2P01, HMI PUH9 D2P01 and HMI PUH9 A2P01:
- 1 PCI + 1 PCI Express® _
  - Hard disk/Windows® XP Professional SP3
  - 24 V  $\equiv$  or 100...240 V  $\sim$  power supply

 Standard industrial environments (with hard disk) and with Stainless steel front panel bezel:

- HMI PTH7 D2P01:
  - 1 PCI + 1 PCI Express®
    - Flash disk/Windows® XP Professional SP3
    - 24 V --- power supply

(1) Types of PCI slot: Half-format PCI 2.2 and half-format PCI Express® 4x.

(2) For description, see pages 3/24 and 3/25.

(3) Not user-expandable; increased capacity available in made-to-order configuration (see page 3/31).

Magelis <i>i</i> PC selection page 3/10	on guide: Magelis <i>i</i> PC presenta page 3/12	on: Separate components: page 3/30	Equivalent product table: page 3/32	
3/22		Schneider Gelectric		

## **Industrial PCs**

Magelis[™] *i*PCs certified for automation Magelis[™] Panel PC Universal and Performance ranges

### Presentation (continued)

Overview of the range (continued)

### Magelis Panel PC Performance range (1) (2)

The Magelis Panel PC Performance range is equipped with the Intel[®] CoreTM 2 Duo P8400 processor (2.26 GHz) + Intel[®] GM45 chipset and DDR3 RAM (3).

Featuring a 15" or 19" LCD TFT LED 16 million colour touch screen and IP 65 front panel protection when mounted on a panel or enclosure door, this range is designed for the following environments:

- Harsh industrial environments (with solid-state storage disk):
- □ HMI PPF7 D0701, HMI PPF7 D07F1, HMI PPF9 D0701 and HMI PPF9 D07F1:
- No PCI slot
  - Flash disk/Windows® 7 Ultimate 64-bit
- 24 V == power supply
- HMI PPF7 A2701, HMI PPF7 A27F1, HMI PPF9 A2701 and HMI PPF9 A27F1:
   1 PCI + 1 PCI Express[®],
  - Flash disk/Windows[®] 7 Ultimate 64-bit
  - 100...240 V  $\sim$  power supply

Standard industrial environments (with hard disk):

- HMI PPH7 D0701, HMI PPH7 A0701, HMI PPH9 D0701 and HMI PPH9 A0701:
   No PCI slot
  - Hard disk/Windows[®] 7 Ultimate 64-bit
  - $24 \text{ V} = \text{ or } 100...240 \text{ V} \sim \text{ power supply}$

□ HMI PPH7 D2701, HMI PPH7 B2701 (4), HMI PPH7 A2701, HMI PPH9 D2701 and HMI PPH9 A2701:

- 1 PCI + 1 PCI Express[®],
- Hard disk/Windows® 7 Ultimate 64-bit
- 24 V  $\equiv$  or 100...240 V  $\sim$  power supply
- Harsh industrial environments (with solid-state storage disk) and with Stainless
- steel front panel bezel:
- □ HMI PRH7 A2701:
  - 1 PCI + PCI Express[®]
  - Hard disk/Windows® 7 Ultimate 64-bit
  - 100...240 V  $\sim$  power supply

### Made-to-order Magelis Panel PC Universal and Performance ranges

On Magelis Universal and Performance Panel PC bases, it is possible to customize the CPU by selecting:

- The capacity of the Compact Flash card and the RAM
- The number of PCI and PCI Express[®] slots
- The operating system and dedicated HMI software

 Additional assembled options: PCI RAID card with 2 redundant hard disks (5), interface for backup battery, interface for battery-backed power supply module, third RS 485 port, etc.

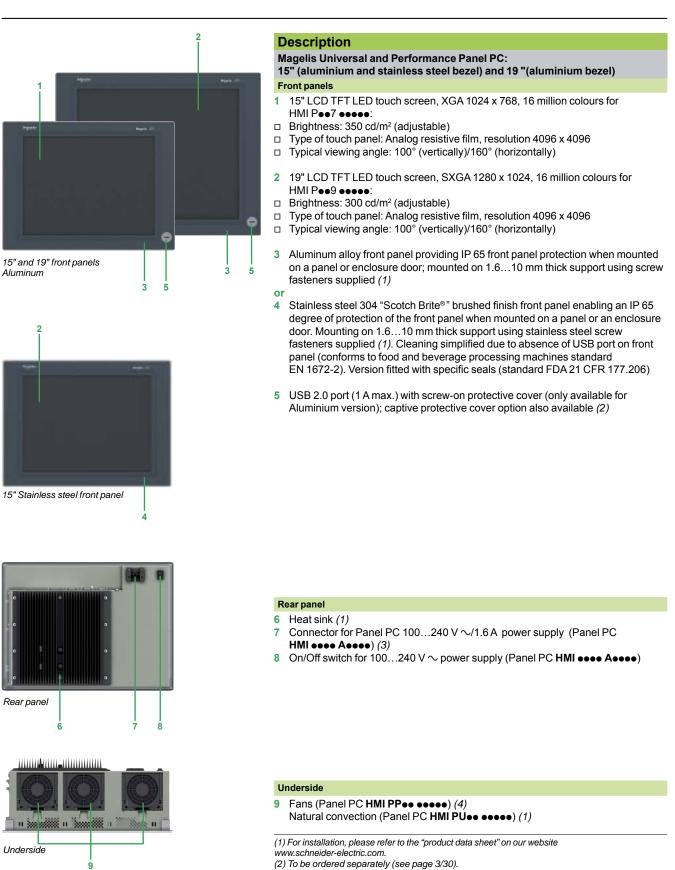
For this HMIPCC offer see page 3/31.

- (1) Types of PCI slot: Half-format PCI 2.2 and half-format PCI Express® 4x.
- (2) For description, see pages 3/24 and 3/25.
- (3) Not user-expandable; increased capacity available in made-to-order configuration (see page 3/31).
- (4) Supplied with battery-backed interface module inserted.
- (5) Operating temperature details available on our website www.schneider-electric.com.

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# **Industrial PCs**

Magelis[™] *i*PCs certified for automation Magelis[™] Panel PC Universal and Performance ranges



Magelis Panel PC, 15" or 19"

(3) Consumption excluding additional PCI card.
 (4) Can be replaced with the Panel PC fan kit by the customer (to be ordered separately, see

(+) Can be replaced with the Partel PC fan kit by the customer (to be ordered separately, see page 3/30).

Magelis <i>i</i> PC selection guide: page 3/10	Magelis <i>i</i> PC presentation: page 3/12	Separate components: page 3/30	Equivalent product table: page 3/32	
3/24		Schneider Felectric		

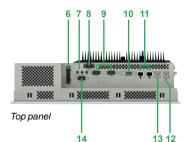
## **Description** (continued)

## Industrial PCs

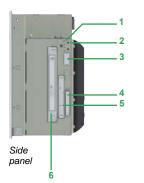
Magelis[™] *i*PCs certified for automation Magelis[™] Panel PC Universal and Performance ranges

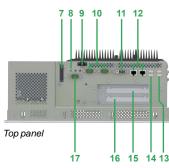


Side panel



Magelis Panel PC, 15" or 19", no PCI slot





Magelis Panel PC, 15" or 19", 2 PCI slots

### **Description** (continued)

Magelis Universal and Performance Panel PC, 15" and 19", no PCI slot Side panel

- 4 status and power supply LEDs 1
- 2 2 pushbuttons: 1 for the power supply and 1 for resetting
- 3 Battery
- Slot for Compact Flash card: 4
- With Compact Flash card (SLC technology) ≥ 4GB (Panel PC
- HMI PUC D0E01)
- Free slot (Panel PC HMI PoFo 00001, HMI PoHo 00001)
- 5 Slide-in compact rack:
- Free slot (Panel PC HMI PUC D0E01)

□ With Flash disk ≥ 60 GB (Panel PC HMI PoFo o0oo1) and manufacturer's 5 year warranty (1)

□ With hard disk ≥ 250 GB (Panel PC HMI PeHe e0ee1)

#### Top panel

- 6 Free slot for battery-backed power supply interface module (2)
- 7 Micro input, line input/line output
- Connector for Panel PC 24 V == /7 A power supply (Panel PC HMI Peee D0ee1) 8 (3)
- 9 2 RS232C ports
- 10 DVI port RGB connection with adaptor (HMI YAD DVI RGB 11) (2)
- 11 2 Ethernet 10/100/1000 Mbps ports
- 12 2 USB 2.0 ports (1 A max.)
- 13 2 USB 2.0 ports (0.5 A max.)
- 14 Slot for additional RS232C/RS422/RS485 serial link interface: to be ordered separately in made-to-order configuration (2).

### Magelis Universal and Performance Panel PC, 15" and 19", 2 PCI slots Side panel

- 1 4 status and power supply LEDs
- 2 2 pushbuttons: 1 for the power supply and 1 for resetting
- 3 Batterv
- Free slot for Compact Flash card 4
- 5 Slide-in compact rack:

□ with Flash disk ≥ 60 GB (Panel PC HMI PoFo ●●●●1) and manufacturer's 5 year warranty (1)

- With hard disk ≥ 250 GB (Panel PC HMI PeHe e2ee1) п
- Slide-in rack with the DVD-RW drive included (4). Can be used for an additional 6 storage disk with adaptor (HMI YAD SLIDEIN 11) (5)

### Top panel

- Slot for battery-backed power supply interface module: 7
- Module mounted on Panel PC HMI PPH7 B2701
- Module not included as standard on other models (2)
- Micro input, line input/line output 8
- 9 Connector for Panel PC 24 V == /7 A power supply (Panel PC HMI PoDo ooo1) (3) 10 2 RS232C ports
- 11 DVI port RGB connection with adaptor (HMI YAD DVI RGB 11) (2)
- 12 2 Ethernet 10/100/1000 Mbps ports
- 13 2 USB 2.0 ports (1 A max.)
- 14 2 USB 2.0 ports (0.5 A max.)
- 15 Half-format PCI Express® 4x slot
- 16 Half-format PCI 2.2 slot
- 17 Slot for additional RS232C/RS422/RS485 serial link interface; to be ordered separately in made-to-order configuration (2).

(1) For general conditions of manufacturer's 5 year warranty: please consult our Customer Care Centre.

(2) To be ordered separately in made-to-order configuration (see page 3/31).

(3) Consumption excluding additional PCI card.

(4) Operating temperature details available on our website www.schneider-electric.com.

(5	) To be	ordered s	eparately	as an	accessory	/ (see	page 3/30	).

Magelis <i>i</i> PC selection guide:	Magelis <i>i</i> PC presentation:	Separate components:	Equivalent product table:	
page 3/10	page 3/12	page 3/30	page 3/32	

References

3

**Industrial PCs** Magelis[™] *i*PCs certified for automation Magelis[™] Panel PC Universal range - 15" touch screen

HMI PUF7 A2PF1	9.000 9.500 10.900
HMI PUF7 D0P01         HMI PUF7 D0PL1         HMI PUF7 A0P01         HMI PUF7 A2P01         HMI PUF7 A2PF1	9.000 9.000 9.500 10.900
HMI PUF7 D0P01         HMI PUF7 D0PL1         HMI PUF7 A0P01         HMI PUF7 A2P01         HMI PUF7 A2PF1	9.000 9.000 9.500 10.900
HMI PUF7 D0PL1 HMI PUF7 A0P01 HMI PUF7 A2P01 HMI PUF7 A2PF1	10.900
HMI PUF7 A0P01 HMI PUF7 A2P01 HMI PUF7 A2PF1	9.500 10.900 10.900
HMI PUF7 A2P01 HMI PUF7 A2PF1	10.900
HMI PUF7 A2PF1	10.900 10.900 11.100
HMI PTF7 D2P01	11.100
HMI PTF7 D2P01	11.100
HMI PUH7 D0P01	9.000
HMI PUH7 D2P01	10.300
HMI PUH7 A0P01	9.500
HMI PUH7 A2P01	10.900
HMI PTH7 D2P01	11.100
H Inte Jura	

(a) For general conditions of manufacturer's 5 year warranty: please consult our Customer Care Centre.

Separate components: page 3/30

Equivalent product table: page 3/32

Schneider Gelectric

# **Industrial PCs** Magelis[™] *i*PCs certified for automation Magelis[™] Panel PC Performance range - 15" touch screen

Magelis Performance Panel - 15" LCD TFT LED touch screen (1) (2)



*HMI PP*●7●●●1 (screen side)



HMI PPF7 A2701 (screen side)



HMI PP•7 A0701 (CPU side)



HMI PP•7 A27•1 (CPU side)



HMI PPH7 D2701 (CPU side)

Supply voltage PCI slot	Operating system	Software	Storage	DDR3 RAM (3)	Reference	Weight kg
	-	nent (with Alum	inium front panel bez	• • •		.5
24 V <del></del> No PCI slot	Windows [®] 7 Ultimate 64-bit	Vijeo Designer RT Demo <i>(4)</i>	Flash disk ≥60 GB with 5 year warranty <i>(5)</i>	2 GB	HMI PPF7 D0701	10.100
		Vijeo Designer RT Demo <i>(4)</i> Vijeo Citect Full 500 I/O	Flash disk ≥60 GB with 5 year warranty <i>(5)</i>	4 GB	HMI PPF7 D07F1	10.100
100240 V $\sim$ 1 PCI + 1 PCI Express $^{\circ}$	Windows [®] 7 Ultimate 64-bit	Vijeo Designer RT Demo <i>(4)</i>	Flash disk ≥60 GB with 5 year warranty <i>(5)</i>	2 GB	HMI PPF7 A2701	12.000
·		Vijeo Designer RT Demo <i>(4)</i> Vijeo Citect Full 500 I/O	Flash disk ≥60 GB with 5 year warranty <i>(5)</i>	4 GB	HMI PPF7 A27F1	12.000
For standard i	ndustrial envir	onment (with Al	uminium front panel l	bezel)		
24 V <del></del> No PCI slot	Windows [®] 7 Ultimate 64-bit	Vijeo Designer RT Demo <i>(4)</i>	Hard disk ≥ 250 GB	2 GB	HMI PPH7 D0701	10.100
24 V 1 PCI + 1 PCI Express®	Windows [®] 7 Ultimate 64-bit	Vijeo Designer RT Demo <i>(4)</i>	Hard disk ≥ 250 GB	2 GB	HMI PPH7 D2701	11.400
24 V with interface for backup battery 1 PCI + 1 PCI Express®	Windows [®] 7 Ultimate 64-bit	Vijeo Designer RT Demo <i>(4)</i>	Hard disk ≥ 250 GB	2 GB	HMI PPH7 B2701	11.400
100240 V $\sim$ No PCI slot	Windows [®] 7 Ultimate 64-bit	Vijeo Designer RT Demo <i>(4)</i>	Hard disk ≥ 250 GB	2 GB	HMI PPH7 A0701	10.600
100240 V $\sim$ 1 PCI + 1 PCI Express $^{\circ}$	Windows [®] 7 Ultimate 64-bit	Vijeo Designer RT Demo <i>(4)</i>	Hard disk ≥ 250 GB	2 GB	HMI PPH7 A2701	12.000
For standard i	ndustrial envir	onment (with St	ainless steel front pa	nel bezel)		
100240 V ∼ 1 PCI + 1 PCI Express®	Windows [®] 7 Ultimate 64-bit	Vijeo Designer RT Demo <i>(4)</i>	Hard disk ≥ 250 GB	2 GB	HMI PRH7 A2701	12.200

(1) 15" touch screen: XGA 1024 x 768, 16 million colours, IP 65 front panel protection when mounted on panel or enclosure door.

 (2) For separate components, software and external power supply see page 3/30.
 (3) Memory capacity not user-expandable; increased capacity available in made-to-order configuration (see page 3/31).
 (4) Vijeo Designer RT (Run Time) Demo (21-day trial version). Unlimited licence, to be ordered separately (VJDSNRTMPC) (see page 3/30).

(5) For general conditions of manufacturer's 5 year warranty: please consult our Customer Care Centre.

Schneider Belectric

# **Industrial PCs** Magelis[™] *i*PCs certified for automation Magelis[™] Panel PC Universal range - 19" touch screen

	Supply voltage PCI slot	Operating system	Software	Storage	DDR2 RAM (3)	Reference	Weight kg
	For maintenar	ce-free environ	ment (with Alu	minium front panel be	zel)		
	24 V <del></del> No PCI slot	Windows [®] Embedded Standard 2009 <i>(4)</i>	Vijeo Designer RT Demo <i>(5)</i>	Compact Flash ≥ 4 GB	1 GB	HMI PUC9 D0E01	13.600
		Windows [®] XP Professional SP3	Vijeo Designer RT Demo <i>(5)</i>	Flash disk ≥ 60 GB with 5 year warranty <i>(6</i> )	1 GB	HMI PUF9 D0P01	13.700
U•9 ••••1 m side)			Vijeo Designer RT Demo <i>(5)</i> Vijeo Citect Full 500 I/O	Flash disk ≥ 60 GB with 5 year warranty ( <i>6</i> )	2 GB	HMI PUF9 D0PF1	13.700
	100240 ∿V 1 PCI + 1 PCI Express®	Windows [®] XP Professional SP3	Vijeo Designer RT Demo <i>(5)</i>	Flash disk ≥ 60 GB with 5 year warranty <i>(6</i> )	1 GB	HMI PUF9 A2P01	14.700
And a state of the			Vijeo Designer RT Demo (5) Vijeo Citect Full 500 I/O	Flash disk $\ge$ 60 GB with 5 year warranty (6)	2 GB	HMI PUF9 A2PF1	15.500
U●9A2P●1	For standard i	ndustrial enviro	nment (with Al	uminium front panel b	oezel)		
le)	24 V <del></del> No PCI slot	Windows [®] XP Professional SP3	Vijeo Designer RT Demo <i>(5)</i>	Hard disk ≥ 250 GB	1 GB	HMI PUH9 D0P01	13.700
And the second	24 V <del></del> 1 PCI + 1 PCI Express®	Windows [®] XP Professional SP3	Vijeo Designer RT Demo <i>(5)</i>	Hard disk ≥ 250 GB	1 GB	HMI PUH9 D2P01	15.000
IH9 D2P01 ide)	100240 V $\sim$ No PCI slot	Windows [®] XP Professional SP3	Vijeo Designer RT Demo <i>(5)</i>	Hard disk ≥ 250 GB	1 GB	HMI PUH9 A0P01	14.300
	100240 V $\sim$ 1 PCI + 1 PCI Express $^{\circ}$	Windows [®] XP Professional SP3	Vijeo Designer RT Demo <i>(5)</i>	Hard disk ≥ 250 GB	1 GB	HMI PUH9 A2P01	15.500

Acrobat Reader, Word/Excel/Power Point Viewer
Framework.Net 3.5
Web browser

 Vijeo Citect Web Client
 Vijeo Designer Run Time Demo (5)
 (5) Vijeo Designer RT (Run Time) Demo (21-day trial version). Unlimited licence, to be ordered separately (VJDSNRTMPC) (see page 3/30).

(6) For general conditions of manufacturer's 5 year warranty: please consult our Customer Care Centre.

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PF110326





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# **Industrial PCs** Magelis[™] *i*PCs certified for automation Magelis[™] Panel PC Performance range - 19" touch screen



HMI PP•9 ••••1 (screen side)



HMI PP•9 A27•1 (CPU side)



HMI PPH9 D2701 (CPU side)



HMI PPH9 A0701 (CPU side)

Supply voltage PCI slot	Operating system	Software	Storage	DDR3 RAM (3)	Reference	Weight kg
For harsh indu	strial environm	nent (with Alum	inium front panel be	zel)		
24 V <del></del> No PCI slot	Windows [®] 7 Ultimate 64-bit	Vijeo Designer RT Demo <i>(4)</i>	Flash disk ≥ 60 GB <i>(5)</i>	2 GB	HMI PPF9 D0701	14.800
		Vijeo Designer RT Demo <i>(4)</i> Vijeo Citect Full 500 I/O	Flash disk ≥ 60 GB <i>(5)</i>	4 GB	HMI PPF9 D07F1	14.800
100240 V $\sim$ 1 PCI +	Windows [®] 7 Ultimate 64-bit	Vijeo Designer RT Demo <i>(4)</i>	Flash disk ≥ 60 GB <i>(5)</i>	2 GB	HMI PPF9 A2701	16.600
1 PCI Express®		Vijeo Designer RT Demo <i>(4)</i> Vijeo Citect Full 500 I/O	Flash disk ≥ 60 GB <i>(5)</i>	4 GB	HMI PPF9 A27F1	16.600
For standard i	ndustrial envir	onment (with Al	uminium front pane	l bezel)		
24 V <del></del> No PCI slot	Windows [®] 7 Ultimate 64-bit	Vijeo Designer RT Demo <i>(4)</i>	Hard disk ≥ 250 GB	2 GB	НМІ РРН9 D0701	14.800
24 V <del></del> 1 PCI + 1 PCI Express®	Windows [®] 7 Ultimate 64-bit	Vijeo Designer RT Demo <i>(4)</i>	Hard disk ≥ 250 GB	2 GB	HMI PPH9 D2701	16.100
100240 V $\sim$ No PCI slot	Windows [®] 7 Ultimate 64-bit	Vijeo Designer RT Demo <i>(4)</i>	Hard disk ≥ 250 GB	2 GB	HMI PPH9 A0701	15.400
100240 V $\sim$ 1 PCI + 1 PCI Express®	Windows [®] 7 Ultimate 64-bit	Vijeo Designer RT Demo <i>(4)</i>	Hard disk ≥ 250 GB	2 GB	HMI PPH9 A2701	16.500

Magelis Performance Panel - 19" LCD TET LED touch screen(1)(2)

(1) 19" touch screen: SXGA 1280 x 1024, 16 million colours, IP 65 front panel protection when mounted on panel or enclosure

(1) To total operation of the second secon (see page 3/30).

(5) For general conditions of manufacturer's 5 year warranty: please consult our Customer Care Centre.

Schneider Gelectric

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## **Industrial PCs**

Magelis[™] *i*PCs certified for automation Separate components for Magelis[™] Panel PC Optimum, Universal and Performance ranges

Separate componen Description	Details	Compatible wit	th Magelis Pane	PC ranges	Reference	Weight
		Optimum	Universal	Performance		kg
Storage disks, peripheral	equipment, kits					
Hard disk	250 GB, blank	-	All models		HMI YHDD 0250 11	
Flash disk with 5 year warranty (1)	60 GB, blank	_	All models		HMI YSDD 0060 11	
Compact Flash card	2 GB, blank	All models	•		HMI YCF S02 11	
SLC technology)	4 GB, blank	All models			HMI YCF S04 11	
	8 GB, blank	All models			HMI YCF S08 11	-
SD memory card	4 GB, blank, for user data	All models	-		HMI ZSD 4G	-
DVD-RW drive for slide-in rack (2)	CD-RW and DVD-RW reader/writer	-	Panel PC with 2	2 PCI slots	HMI YDR DVDRW 11	-
Slide-in adaptor for storage disk	Used to insert a hard disk or an SSD Flash disk in a slide-in rack	-	Panel PC with 2	2 PCI slots	HMI YAD SLIDEIN 11	-
DVI/VGA RGB adaptor	For connecting an RGB screen to the integrated DVI port	-	All models		HMI YAD DVI RGB 11	-
RAID PCI card with 2 redundant hard disks (2)	PCI card equipped with two 250 GB redundant hard disks	-	Panel PC with 2		HMI YRAID PCI 11	
Hard disk for RAID PCI card	Replacement hard disk for RAID PCI card HMI YRAID PCI 11	-	Panel PC with 2 RAID PCI card HMI YRAID PC		HMI YRAID D0250 11	
Backup power supply kit	Provides an uninterruptible power supply. Includes: 1 backup battery 1 x 3 m cordset	_	Configured Magelis Panel PC with battery-backed power supply interface module (3)		HMI YUPS KT 11	-
Power supply filter for marine certification	Necessary for compliance with marine certification.	Panel PC HMI PWC7 D0E01	Panel PC HMI PUC• D••••/ PUF• D••••	-	HMI YLFI MAR 11	-
Maintenance kit for Panel PC	Includes: ■ 1 x 3-way removable connector for 24 V power supply ■ 1 x 3-way removable connector for 100240 V ~> power supply ■ 2 protective covers for USB port on front panel (only on Aluminium bezel versions) ■ 10 replacement filters for fan, including: ■ 5 for Magelis Panel PC with no PCI slot ■ 5 for Magelis Panel PC with 2 PCI slots ■ 18 screw fasteners (Aluminium bezel) or 14 fasteners (Stainless steel bezel)		All models		НМІ ҮРМКТ 11	0.06
· ·	2 captive covers for USB port on front panel	All Aluminium b	ezel version mod	els	HMI YPUSB UN5 11	0.04
Fan kit for Panel PC	For fan replacement by user	-	All models with	no PCI slot	HMI YPFKT 01	0.25
			All models with	2 PCI slots	HMI YPFKT 21	0.80
Screen protection	5 protective film sheets for 10" screen	Panel PC HMI PWC5 D0E01	-		MPC YK2 0SPS KIT	
	5 protective film sheets for 15" screen (Aluminium and Stainless steel bezel versions)	Panel PC HMI PeC7 D0E01	Panel PC HMI	₽●●7 ●●●●●	MPC YK5 0SPS KIT	
	5 protective film sheets for 19" screen	-	Panel PC HMI	₽●●9 ●●●●●	MPC YK9 0SPS KIT	
Cable for <i>i</i> Display	Extra long (10 m)	-	All models		HMI YCAB DVI1011	
Software						
Vijeo Designer Run Time licence for 1 workstation	Converts the 21-day trial version of Vijeo Designer Run Time Demo to an unlimited licence	All models			VJDSNRTMPC	-
Licence extension Intelligent Data Service for Vijeo Designer Run Time for 1 workstation	Used to track the process variables and all operator actions, and offers visibility of the key process values	All models (requ	iires storage cap	acity≥4GB)	VJDSNTRCKV60M	-
External Phaseo power su	apply					
Phaseo regulated switch mode power supply ABL 8 Rail mounting	Input voltage: 100120 V/200500 V~ (4) Output voltage: 24 V Power: 120 W	All models	-		<b>ABL 8RPS24050</b> (5) (6)	0.70
Phaseo regulated switch mode power supply ABL 4 Rail mounting	Input voltage: 100230 V $\sim$ (4) Output voltage: 24 V Power: 120 W	All models	-		<b>ABL 4RSM24050</b> (5) (6)	0.50

(2) For configured Magelis Panel PC see page 3/31.
 (4) Single-phase connection. Phase-to-phase connection possible on certain American line supplies, please consult our Customer Care Centre.
 (5) If adding a PCI card, you need to select a Phaseo power supply with a power rating suitable for the extra consumption. Please consult the "Phaseo power supply and transformer" catalogue on our website www.schneider-electric.com.
 (6) To order this reference, please consult our Customer Care Centre.

Magelis *i*PC selection guide: page 3/10

Magelis *i*PC presentation: page 3/12

Equivalent product table: page 3/32

Schneider Belectric

# Industrial PCs Magelis[™] *i*PCs certified for automation Configured Magelis[™] Panel PC

### **Configured Magelis Panel PC industrial PC**

With the "configured iPC" service, Schneider Electric offers a vast number of configuration combinations for Magelis iPCs.

This service, available exclusively from our Customer Care Centre, allows users to configure a certified product suitable for specific automation applications and environments, based on Magelis Universal and Performance Panel PCs.

Our Customer Care Centre draws up:

The complete parts list for the configured Magelis Panel PC

- Its selling price
- The complete reference (root + code which varies according to the configuration)
- A purchase order

### Ordering procedure for a configured Magelis Panel PC

- 1 Please consult our Customer Care Centre.
- 2 State the reference root; this root will be completed with the variable part of the reference, once configuration is complete. The root varies depending on which Magelis Panel PC base is selected:
  - HMI PCCW corresponds to a configured Magelis Optimum Panel PC base, with an aluminium front panel
  - HMI PCCV corresponds to a configured Magelis Optimum Panel PC base, with a stainless steel front panel
  - HMI PCCP corresponds to a configured Magelis Universal or Performance Panel PC base, with an aluminium front panel
  - HMI PCCT corresponds to a configured Magelis Universal or Performance Panel PC base, with a stainless steel front panel.
- 3 Configure your Magelis Panel PC (see table below).
- 4 Confirm your order.

References					
Description		Magelis Panel PC base	Reference	Weigh kg	
Configured Magelis Panel PC	Reference root to be stated to	Optimum, aluminium front panel b	HMI PCCW (2)		
The configuration should be	our Customer Care Centre.	Optimum, stainless steel front pa	nel bezel (15" screen only)	HMI PCCV (2)	
made up from the components		Universal and Performance, alum	ninium front panel bezel	HMI PCCP (2)	
below. (1)		Optimum and Performance, stain (15" screen only)	less steel front panel bezel	HMI PCCT(2)	
Description	Available on Magelis Panel PC	base		Reference	Weight
	Optimum	Universal	Performance	_	kg
	Processor Intel® ATOM™ Z510 (1.1 GHz) DDR2 RAM 24 V power supply	Processor Intel® ATOM™ N270 (1.6 GHz) DDR2 RAM 24 V or 100240 V ∼ power supply	Intel® Core™ 2 Duo P8400 processor (2.26 GHz) DDR3 RAM 24 V or 100240 V ~ power supply		
LCD TFT LED touch screen 16 million colours	10.4" or 15"	15" or 19"		(2)	
RAM	2 GB max. (DDR2)	3 GB max. (DDR2)	8 GB max. (DDR3)	_	
Peripheral storage devices	Compact Flash card 8 GB max.				
		Up to 2 Flash disks $(3) \ge 60$ GB (	_		
	-	Up to 2 hard disks ≥ 250 GB			
Other peripheral device	-	DVD-RW drive		_	
PCI slot configuration	_	No PCI slot		_	
		1 PCI + 1 PCI Express® or 2 PCI			
Operating systems	Windows® Embedded Standard	2009			
	_	Windows [®] Embedded Standard	7 32-bit		
		Windows [®] XP PRO SP3		_	
		Windows [®] 7 Ultimate 32-bit		_	
		Windows [®] 7 Ultimate 64-bit		_	
Software	Vijeo Designer Run Time	_			
	_	Vijeo Citect	_		
Assembled options	<u> </u>	RAID PCI card with 2 redundant	_		
	-	Interface module for backup pow HMI YUPS KT 11 backup power	supply kit (see page 3/30)	_	
		Additional RS232C/RS422/RS4	85 serial link interface	_	
	1 or 2 Ethernet ports	2 Ethernet ports			

1) Please consult our Customer Care Centre.

(2) The reference of configured Magelis Panel PC industrial PCs is made up of a root (HMI PCCW, HMI PCCV, HMI PCCP or HMI PCCT) followed by a variable part generated during configuration.

(3) Flash disk (SSD) with manufacturer's 5 year warranty. Please consult our Customer Care Centre.

Separate components: page 3/30 Equivalent product table page 3/32

3/31

# **Substitution**

# **Industrial PCs**

Magelis[™] *i*PCs certified for automation Equivalent product table

Old PC Panels		Replaced by Mageli	is Panel PC	Compatibility	/
Description	References	Description	References		creen efinition
Magelis Smart		Magelis Panel PC			
with Compact Flash card)		(Optimum or Universal ran	ige)		
lagelis Smart .4" screen, 24 V <del></del>	MPC ST1 1NDJ 00T	Magelis Optimum Panel PC 10" screen, 24 V ==-	HMI PWC5 D0E01		
/lagelis Smart .4" screen, 100…240 V $\sim$	MPC ST1 1NAJ 00T	Magelis Optimum Panel PC 10" screen, 24 V	HMI PWC5 D0E01 + Phaseo power supply (1)		
lagelis Smart 5" screen, 24 V	HMI PSC7 DE03 MPC ST5 2NDJ 20T	Magelis Optimum Panel PC 15" screen, 24 V	HMI PWC7 D0E01		
	MFC 3132ND3201	Magelis Optimum Panel PC 15" screen, 24 V, ATEX	HMI PVC7 D0E01		
		· · · · · · · · · · · · · · · · · · ·	HMI PCCT (3)		
		Magelis Universal Panel PC 15" screen, 24 V	HMI PUC7 D0E01		
lagelis Smart	HMI PSC7 AE03	Magelis Optimum Panel PC	HMI PWC7 D0E01 +		
5" screen, 100240 V $\sim$	MPC ST5 2NAJ 20T	15" screen, 24 V	Phaseo power supply (1)		
	MPC ST5 2NAJ 20H	Magelis Universal Panel PC 15" screen, 24 V	HMI PUC7 D0E01 + Phaseo power supply (1)		
Magelis Smart+ (with Flash disk)		Magelis Panel PC (Universal range)			
lagelis Smart+ 5" screen. 24 V	HMI PSF7 DP03	Magelis Universal Panel PC 15" screen, 24 V	HMI PUF7 D0P01		
0 0010011, ZT V		Magelis Universal Panel PC 15" screen, 24 V, ATEX	HMI PTF7 D2P01		
lagelis Smart+ 5" screen, 100240 V $\sim$	HMI PSF7 AP03	Magelis Universal Panel PC 15" screen, 100240 V ~	HMI PUF7 A0P01		
		Magelis Universal Panel PC 15" screen, 100240 V $\sim$ , ATEX	HMI PCCT(3)		
lagelis Smart+ 5" screen, 100240 V $\sim$ 'ijeo Citect Lite 1200 I/O	HMI PSF7 APL3 (2)	Magelis Universal Panel PC 15" screen, 24 V Vijeo Citect Lite 1200 I/O	HMI PUF7 D0PL1 (2)		
		Magelis Universal Panel PC 15" screen, 100240 V $\sim$ , ATEX	HMI PCCT (3)		
lagelis Smart+ 5" screen, 100240 V $\sim$ ijeo Citect Full 500 I/O	HMI PSF7 APF3	Magelis Universal Panel PC 15" screen, 100240 V $\sim$ Vijeo Citect Full 500 I/O	HMI PUF7 A2PF1		
,		Magelis Universal Panel PC 15" screen, 100240 V $\sim$ , ATEX	HMI PCCT(3)		
Magelis Compact <i>i</i> PC - Ger (with hard disk)	neral Purpose	Magelis Panel PC (Universal range)			
lagelis Compact <i>i</i> PC - General urpose 15" screen, 24 V	MPC KT5 5NDX 20N	Magelis Universal Panel PC 15" screen, 24 V	HMI PUH7 D2P01		
		Magelis Universal Panel PC 15" screen, 24 V, ATEX	HMI PTH7 D2P01		
lagelis Compact <i>i</i> PC General urpose - 15" screen, 100240 V $\sim$	MPC KT5 5NAX 20N	Magelis Universal Panel PC 15" screen, 100240 V ~	HMI PUH7 A2P01		
Magelis Compact <i>i</i> PC - Hea with Flash disk)		Magelis Panel PC (Universal range)			
lagelis Compact <i>i</i> PC - Heavy Duty 5" screen, 100240 V $\sim$	MPC KT5 5MAX 20N	Magelis Universal Panel PC 15" screen, 100240 V ~	HMI PUF7 A2P01		
agelis Compact <i>i</i> PC - Heavy Duty 5" screen, 100240 V $\sim$	MPC KT5 5MAX 20L	Magelis Universal Panel PC 15" screen, 100240 V ~ Vijeo Citect Full 500 I/O	HMI PUF7 A2PF1		
jeo Citect Lite 1200 I/O		Configured Magelis Panel PC Universal Panel PC base with: 15" screen, 100240 V ~ Vijeo Citect Lite 1200 I/O	HMI PCCP (3)		
agelis Compact $i\rm PC$ - Heavy Duty 5" screen, 100240 V $\sim$ ijeo Citect Full 500 I/O	MPC KT5 5MAX 20V	Magelis Universal Panel PC 15" screen, 100240 V $\sim$ Vijeo Citect Full 500 I/O	HMI PUF7A2PF1		
		Cut-out or	Identical		
		screen definition			
			Different		

ABL 8RPS24050 or ABL 4RSM24050 Phaseo power supply (see page 3/30).
 Correspondence between different power supplies: 100...240 V ~/24 V ......
 Made-to-order configuration (see page 3/31).

Magelis <i>i</i> PC selection guide: page 3/10	Magelis <i>i</i> PC presentation: page 3/12	Magelis Panel PC: pages 3/16 and 3/22	Magelis BOX PC: page 3/36	Magelis <i>i</i> Display: page 3/46
3/32		Schneider Electric		

# Substitution (continued)

# **Industrial PCs**

Magelis[™] *i*PCs certified for automation Equivalent product table

Front Panel with 12' touch tront Panel with 12' touch team       MPC YB2 ONNN 00N team       MPC YB2 ONNN 00N team       HMI Per 7 ***********************************	Front Panels + Magelis Flex PC BOX     Magelis Panel PC or Magelis Display + Magelis BOX PC     mounting     definition       Front Panel with 12" touch tegels Flex PC BOX     MPC YB2 NNN 00N + MPC F/H= • • • • • • • • • • • • • • • • • • •	Old Front Panels +	FIEX PC BOX	Replaced by Magelis	S 2PC	Compatibilit	( <b>y</b>
Magelis / Display + Magelis BOX PC         Import Yase With 12* touch creen and keypad       MPC YB2 0NNN 00N + MPC F/He       Magelis / Display with 15* screen, 100240 V~       MPC YTS 0NAN 00N (3) + HMI Be         Agelis Filex PC BOX 4V ::::::::::::::::::::::::::::::::::::	Imagelis Zubsplay + Magelis BOX PC         isoperative formance Panel PC: 1soperative screen, and keypad       MPC YB2 ONN 00 +       MPC F/He         isoperative formance Panel PC: 1soperative screen, and keypad       MPC YF BOX NAN 00 +       MPC YF S ONAN 00N (3) to the screen, and keypad         isoperative formance Panel PC: 1soperative screen, and keypad       MPC YF S ONAN 00N (3) to the screen, and keypad       MPC YF S ONAN 00N (3) to the screen, and keypad         isoperative formance Panel PC: 1soperative fo	Description	References	Description	References (1)		Screen definition
icreen and keypad       +         Aegelis Fiex PC BOX       MPC F/He	creen and keypad       +       Performance Panel PC       MPC F/He + +         //agelis Flex PC BOX       MPC F/He + +       MPC F/He + +       MPC F/He + +         //agelis Flex PC BOX       MPC F/He + +       MPC F/He + +       MPC F/He + +         //agelis Display with 15°       screen, 100240 V ~       +       MPC F/He + +         //agelis Display with 15°       magelis Display with 15°       HMI DOT DT0 (3)         //agelis Display with 15°       mrc NBS 0NAN 00N       +         //agelis Display with 15°       MPC NBS 0NAN 00N       +         //agelis Display with 15°       MPC NBS 0NAN 00N       +         //agelis Display with 15°       MPC NBS 0NAN 00N       +         //agelis Display with 15°       MPC NBS 0NAN 00N       +         //agelis Display with 15°       MPC YTS 0NAN 00N       +         //agelis Display with 15°       MPC YTS 0NAN 00N       +         //agelis Display with 15°       MPC YTS 0NAN 00N       +         //agelis Display with 15°       MPC YTS 0NAN 00N       +         //agelis Display with 15°       MPC YTS 0NAN 00N       +         //agelis Display with 15°       MPC YTS 0NAN 00N       +         //agelis Display with 15°       MPC YTS 0NAN 00N       +         //agelis Display with 1	Front Panels + Magelis F	lex PC BOX		s BOX PC		
Vagelis Tick Y C BOX       V       V       V       WPC YTS ONAN 00N (3)         42 V ::: or 100240 V ~ (2)       V       HMI Best Steps with 15"       HMI Dior DT0 (3)         Screen, 100240 V ~ ::       HMI Best Steps with 15"       HMI Dior DT0 (3)         Screen, 24 V :::       Magelis Display with 15"       HMI Dior DT0 (3)         Screen, 24 V :::       HMI Best Steps with 15"       HMI Best Steps with 15"         Magelis Display with 15"       HMI Dior DT0 (3)       +         Screen and Keypad, 100240 V ~ ::       HMI Best Steps with 15"       HMI Best Steps with 15"         Front Panel with 15" touch screen n       MPC YTS ONNN 00N       +       +         * tor 100240 V ~ (2)       *       HMI Best Steps with 15"       HMI Performance         BOX PC, 24 V :::       Magelis Display with 15"       MPC YTS ONAN 00N       +         * tor 100240 V ~ (2)       *       Magelis Display with 15"       HMI Best Steps with 15"         V::: or 100240 V ~ (2)       MPC YTS ONNN 00N       +       HMI Best Steps with 15"       +         Magelis Display with 15"       MPC YTS ONAN 00N       +       HMI Best Steps with 15"       +         Magelis Display with 15"       MPC YTS ONAN 00N       +       +       HMI Best Steps with 15"       +         <	Adjents include CBCX       24 V ==:: 0100240 V ~ (2)       24 V ==:: 0100240 V ~ (2)       MPC YTS 0NAN 00N (3) + +         Adjects Display with 15" screen, 24 V ==:: 0100240 V ~ (2)       MPC YTS 0NAN 00N (3) + +       +         Magelis Display with 15" screen, 24 V ==: 0100240 V ~ (2)       MPC YTS 0NAN 00N (3) + +       +         Magelis Display with 15" screen and keypad, 1000240 V ~ (2)       MPC YTS 0NAN 00N +       +         Magelis Display with 15" screen and keypad, 1000240 V ~ (2)       MPC YTS 0NAN 00N +       +         Magelis Display with 15" screen and keypad, 1000240 V ~ (2)       MPC YTS 0NAN 00N +       +         Magelis Display with 15" screen, 1000240 V ~ (2)       MPC YTS 0NAN 00N +       +         Magelis Display with 15" screen, 1000240 V ~ (2)       MPC YTS 0NAN 00N +       +         Magelis Display with 15" screen, 1000240 V ~ (2)       MPC YTS 0NAN 00N +       +         Magelis Display with 15" screen, 1000240 V ~ (2)       MPC YTS 0NAN 00N +       +         Magelis Display with 15" screen, 1000240 V ~ (2)       MPC YTS 0NAN 00N +       +         Magelis Display with 15" screen, 1000240 V ~ (2)       MPC YTS 0NAN 00N +       +         Magelis Display with 15" screen and keypad, 1000240 V ~ (2)       +       +         Magelis Display with 15" screen and keypad, 1000240 V ~ (2)       MPC YTS 0NAN 00N +       +	screen and keypad	+	Magelis Optimum/Universal/ Performance Panel PC			
*       Magelis Universal/Performance BOX PC, 24 V :::       HMI DID7 DT0 (3) +         *       Magelis Display with 15" screen, 24 V :::       +         *       Magelis Universal/Performance BOX PC, 24 V :::       MPC NB5 0NAN 00N +         *       Magelis Objepal with 15" screen, 24 V :::       MPC NB5 0NAN 00N +         *       Magelis Objepal with 15" screen, 24 V :::       MPC NB5 0NAN 00N +         *       Magelis Objepal with 15" screen and keypad, +       MPC YT5 0NNN 00N +         *       MPC YT5 0NNN 00N +       MPC YT5 0NAN 00N +         *       MPC YT5 0NNN 00N +       MPC YT5 0NAN 00N +         *       MPC YT5 0NNN 00N +       MPC YT5 0NAN 00N +         *       MPC YT5 0NAN 00N +       MPC YT5 0NAN 00N +         *       MPC YT5 0NAN 00N +       MPC YT5 0NAN 00N +         *       Magelis Objepal with 15" screen, 124 V :::       MPC YT5 0NAN 00N +         *       Magelis Objepal with 15" screen and keypad, +       HMI DID7 DT0 +         *       Magelis Objepal with 15" screen and keypad, +       HMI Bee-occee (4) BOX PC, 24 V :::         *       Magelis Objeplay with 15" screen and keypad, +       HMI Bee-occee (4) HMI Bee-occee (4) HMI Bee-occee (4) HMI Bee-occee (4) HMI Bee-occee (4) Magelis Objeplay with 19"         *       MPC YT9 ONNN 00N +       MPC YT9 ONNN 00N +       HMI Peg e-occee BOX	*       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *	Magelis Flex PC BOX 24 V or100240 V ~ <i>(2)</i>	MPC F/Hee eeee eee	Magelis iDisplay with 15"	MPC YT5 ONAN OON (3)		
Magelis Jbiplay with 15" screen, 24 V ::::       HMI DID7 DT0 (3) + +         *       *         Magelis Jbiplay with 15" screen, 24 V ::::       +         Magelis Jbiplay with 15" screen and keypad, 100240 V~       HMI Bec NES ONAN 00N + +         *       *         Magelis Jeix Performance BOX PC, 24 V :::       Magelis Universal/Performance BOX PC, 24 V :::         Magelis Jeix PC BS0 MAN 00N + +       *         *       Magelis Jeix PC HS0 NNN 00N + +         *       *         *       Magelis Jeix PC BS0 MAN 00N + +         *       *         *       Magelis Jeix PC BS0 MAN 00N + +         *       *         *       Magelis Jeix PC BS0 MAN 00N + +         *       *         *       Magelis Joiplay with 15" screen, 24 V ::::         Magelis Joiplay with 15" screen, 24 V ::::       *         Magelis Joiplay with 15" screen, 24 V ::::       *         *       *       *         *       *       *         *       *       *         *       *       *         *       *       *         *       *       *         *       *       *         *       *	Magelis Display with 15"       HMI DID7 DT0 (3)         screen, 24 V ::::       HMI BD07 DT0 (3)         Magelis Display with 15"       HMI Box TOC (3)         Screen and keypad,       HMI Beso core (4)         MOC NES ONNN 00N       *         *       MPC VTS 0NNN 00N         *       *         Magelis Universal/Performance       MPC NBS 0NAN 00N         *       *         Magelis Diversal/Performance       MPC NBS 0NAN 00N         *       *         Magelis Diversal/Performance       MPC NBS 0NAN 00N         *       *         Magelis Diversal/Performance       MPC NBS 0NAN 00N         *       *         *       MPC TS 0NN 00N         *       *         *       *         Magelis Display with 15"       *         *       *         Magelis Display with 15"       *         *       *         Magelis Display with 15"       *         *       *         *       *         *       *         Magelis Display with 15"       *         *       *         Magelis Display with 15"       *         *			+			
**       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       **       ** <td< td=""><td>* Magelis Universal/Performance BOX PC, 24 V::: Magelis JDisplay with 15" screen and keypad, 100240 V ~       MPC NB5 0NAN 00N + HMI Beserves (4) MPC NB5 0NAN 00N + HMI Beserves (4) Magelis Diversal/Performance BOX PC, 24 V ::: MPC F/He         * more Panel with 15" touch screen in VC P/He       MPC YT5 0NIN 00N + MPC F/He       Magelis Cptimum/Universal/ Performance Panel PC 15" touch screen, 24 V ::: or 100240 V ~       HMI Peer *****         * Magelis Display with 15" screen, 100240 V ~       MPC YT5 0NAN 00N + MPC F/He       MPC YT5 0NAN 00N + Magelis Display with 15" screen, 100240 V ~         * Magelis Display with 15" screen, 100240 V ~       MPC YT5 0NAN 00N + Magelis Display with 15" screen, 24 V ::: Magelis Diversal/Performance BOX PC, 24 V ::: Magelis Diversal/Performance       MPC TT5 0NAN 00N + HMI Beserves (4) BOX PC, 24 V ::: Magelis Diversal/Performance BOX PC, 24 V ::: Magelis Diversal/Performance BOX PC, 24 V ::: MPC F/He       MPC YT5 0NAN 00N + HMI Beserves (4) Magelis Diversal/Performance BOX PC, 24 V ::: Magelis Diversal/Performance BOX PC, 24 V ::: Magelis Diversal/Performance BOX PC, 24 V ::: MPC F/He       MPC YT5 0NAN 00N + HMI Beserves (4) Magelis Diversal/Performance BOX PC, 24 V ::: MPC F/He         * Magelis Diversal/Performance BOX PC, 24 V ::: MPC F/He       Magelis Diversal/Performance BOX PC, 24 V ::: Magelis Diversal/Performance BOX PC, 24 V ::: MPC F/He       Magelis Diversal/Performance BOX PC, 24 V ::: MAgelis Diversal/Performance BOX PC, 24 V ::: Magelis Diversal/Performance BOX PC, 24 V ::: Magelis Diversal/Performance Magelis Diversal/Performance BOX PC, 24 V ::: Magelis Diversal/Pe</td><td></td><td></td><td>Magelis iDisplay with 15"</td><td>HMI DID7 DT0 (3)</td><td>·</td><td></td></td<>	* Magelis Universal/Performance BOX PC, 24 V::: Magelis JDisplay with 15" screen and keypad, 100240 V ~       MPC NB5 0NAN 00N + HMI Beserves (4) MPC NB5 0NAN 00N + HMI Beserves (4) Magelis Diversal/Performance BOX PC, 24 V ::: MPC F/He         * more Panel with 15" touch screen in VC P/He       MPC YT5 0NIN 00N + MPC F/He       Magelis Cptimum/Universal/ Performance Panel PC 15" touch screen, 24 V ::: or 100240 V ~       HMI Peer *****         * Magelis Display with 15" screen, 100240 V ~       MPC YT5 0NAN 00N + MPC F/He       MPC YT5 0NAN 00N + Magelis Display with 15" screen, 100240 V ~         * Magelis Display with 15" screen, 100240 V ~       MPC YT5 0NAN 00N + Magelis Display with 15" screen, 24 V ::: Magelis Diversal/Performance BOX PC, 24 V ::: Magelis Diversal/Performance       MPC TT5 0NAN 00N + HMI Beserves (4) BOX PC, 24 V ::: Magelis Diversal/Performance BOX PC, 24 V ::: Magelis Diversal/Performance BOX PC, 24 V ::: MPC F/He       MPC YT5 0NAN 00N + HMI Beserves (4) Magelis Diversal/Performance BOX PC, 24 V ::: Magelis Diversal/Performance BOX PC, 24 V ::: Magelis Diversal/Performance BOX PC, 24 V ::: MPC F/He       MPC YT5 0NAN 00N + HMI Beserves (4) Magelis Diversal/Performance BOX PC, 24 V ::: MPC F/He         * Magelis Diversal/Performance BOX PC, 24 V ::: MPC F/He       Magelis Diversal/Performance BOX PC, 24 V ::: Magelis Diversal/Performance BOX PC, 24 V ::: MPC F/He       Magelis Diversal/Performance BOX PC, 24 V ::: MAgelis Diversal/Performance BOX PC, 24 V ::: Magelis Diversal/Performance BOX PC, 24 V ::: Magelis Diversal/Performance Magelis Diversal/Performance BOX PC, 24 V ::: Magelis Diversal/Pe			Magelis iDisplay with 15"	HMI DID7 DT0 (3)	·	
Magelis JDisplay with 15" screen and keypad, 100240 V~       MPC NB5 0NAN 00N         100240 V~       +         Magelis Universal/Performance BOX PC, 24 V :::       MII Peerformance Panel PC         Front Panel with 15" touch screen, 24 V ::: or 100240 V ~ (2)       MPC F/Hee corresting for formance Panel PC         Magelis Display with 15"       MPC YT5 0NNN 00N         +       Magelis Display with 15"         MPC F/Hee corresting for formance Panel PC       MPC YT5 0NAN 00N         +       Magelis Display with 15"         MPC YT5 0NNN 00N       +         +       Magelis Display with 15"         Screen, 100240 V ~ (2)       MPC YB5 0NNN 00N         +       Magelis Display with 15"         Screen, 24 V :::       +         Magelis Display with 15"       HMI DID7 DT0         screen, 24 V :::       +         Magelis Display with 15"       MPC NB5 0NAN 00N         +       Magelis Display with 15"         Screen and keypad, +       +         +       +         Magelis Display with 15"       MPC NB5 0NAN 00N         +       Magelis Display with 15"         Screen and keypad, +       +         +       +         MPC YB5 0NNN 00N       +         +	Magelis Display with 15" screen and keypad, 100240 V~, + Magelis Universal/Performance BOX PC, 24 V :::       MPC NB5 0NAN 00N + HMI Beo occes (4) Magelis Universal/Performance BOX PC, 24 V :::         Front Panel with 15" touch + MPC F/Heo       MPC YT5 0NNN 00N + MPC F/Heo       Magelis Optimum/Universal/ Performance Panel PC 15" touch screen, 24 V ::: or 100240 V~ Magelis Display with 15" screen, 100240 V~ + Magelis Display with 15" screen, 100240 V~ + Magelis Display with 15" screen, 24 V ::: + Magelis Display with 15" screen, 24 V ::: + Magelis Display with 15" screen and keypad + MPC F/Heo       MPC YB5 0NAN 00N + HMI DIO7 DT0 * + Magelis Display with 15" screen and keypad + MPC F/Heo         Front Panel with 15" touch screen and keypad + MPC F/Heo       MPC YB5 0NAN 00N * MPC F/Heo       MPC YB5 0NAN 00N * + MPC F/Heo         Front Panel with 15" touch screen and keypad + MPC F/Heo       MPC YB5 0NAN 00N * MPC F/Heo       MPC NB5 0NAN 00N * + MPC F/Heo         Front Panel with 15" touch screen and keypad + MPC F/Heo       MPC YB 0NN 00N * Magelis Display with 15" screen, 24 V ::: MPC C BOX 24 V ::: or 100240 V~ Magelis Display with 19" screen, 100240 V~ HMB Beo       MI Peos 0000 * HMI Peos 0000 * HMI Peos 00000 * HMI Peos 000000 * HMI Peos 00000 *			+			
100240 V~       HMI Beeseeee (4)         * Magelis Universal/Performance BOX PC, 24 V :::       HMI Beeseeee (4)         * Magelis Optimum/Universal/ Performance Panel PC 15" touch screen, 24 V ::: or 100240 V ~ (2)       HMI Pee7 *****         * MPC F/Heeseeeeee       MPC YT5 0NNN 00N *       MPC YT5 0NAN 00N *         * MPC F/Heeseeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee	Interpret Panel with 15" touch screen, 24 V ==:       HMI Become (4)         HMI Become (4)       HMI Become (4)         Magelis Diversal/Performance BOX PC, 24 V ==:       HMI Peo7 excee         Magelis Flex PC BOX 24 V =::       MPC YT5 0NN 00N +         HMI Become Panel PC 15" touch screen, 24 V =::       HMI Peo7 excee         Magelis Sipsing with 15"       MPC YT5 0NAN 00N +         HMI Become Panel PC 15" touch screen, 100240 V ~       HMI Become (4)         Magelis Sipsing with 15"       MPC YT5 0NAN 00N +         Magelis Sipsing with 15"       MPC YT5 0NAN 00N +         Magelis Sipsing with 15"       MPC YT5 0NAN 00N +         Screen and keypad +       HMI Become (4)         MPC F/Hee exceene       MPC YT5 0NAN 00N +         *       Magelis Jipsing with 15" screen and keypad, 100240 V ~         *       HMI Become (4)         MPC YT9 0NNN 00N +       HMI Become (4)         *       MPC YT9 0NNN 00N +         *       HMI Become (4)         Magelis Jipsing with 15" screen and keypad, 100240 V ~       HMI Become (4)         *       Magelis Jipsing with 15" screen and keypad, 100240 V ~       HMI Become (4)         *       MPC YT9 0NNN 00N +       HMI Become (4)       HMI Become (4)         Magelis Jipsing With 15" screen and keypad, 100240 V ~			Magelis iDisplay with 15"			
Front Panel with 15" touch screen + MPC F/Hee encoded       MPC YT5 0NNN 00N + MPC F/Hee encoded       HMI Peo7 encoded         4 V :::: or 100240 V ~ (2)       MPC F/Hee encoded       MPC YT5 0NAN 00N + MPC YT5 0NAN 00N + MPC YT5 0NAN 00N + MRC YES 0NNN 0NN	Front Panel with 15" touch screen Magelis Flex PC BOX 24 V :::: or 100240 V ~ (2)       MPC YT5 0NN 00N + MPC F/Hee end MPC F/H						
screen       +       MPC F/Hee ence ence       Performance Panel PC       15" touch screen, 015" touch screen, 015" touch screen, 010240 V ~         24 V = or 100240 V ~ (2)       MPC F/Hee ence ence       MPC YT5 0NAN 00N       +         HMI Bee ence ence       MPC YT5 0NAN 00N       +         +       Magelis rDisplay with 15"       MPC YT5 0NAN 00N         +       HMI Bee ence ence       (4)         DX PC, 24 V ==       Magelis rDisplay with 15"       HMI DID7 DT0         +       Magelis rDisplay with 15"       +         Magelis rDisplay with 15"       HMI Bee ence ence (4)       (4)         BOX PC, 24 V ==       MPC YB5 0NNN 00N       +         *       Magelis rDisplay with 15"       MPC NB5 0NAN 00N         *       +       Magelis rDisplay with 15"       +         Magelis Flex PC BOX       *       HMI Bee ence (4)       (4)         Magelis Flex PC BOX       *       +       HMI Bee ence (4)       (4)         Magelis Si Display with 19" touch       *       +       +       HMI Bee ence (4)       (4)         Magelis Si Universal/Performance       BOX PC, 24 V ==       +       +       HMI Bee ence (4)       (4)         Magelis Si Display with 19" touch screen, 24 V ==       *       +       <	screen       +       MPC F/Hee       Performance Panel PC       15" touch screen, 100240 V ~         24 V :::: or 100240 V ~ (2)       +       MPC F/Hee       MPC TTO 00240 V ~         Magelis Display with 15"       MPC TTO 00240 V ~       +         Magelis Universal/Performance       MPC TTO 00240 V ~       +         Magelis Universal/Performance       HMI Bee       +         Magelis Display with 15"       HMI DID7 DTO       +         screen, 24 V :::       +       HMI Bee       +         Magelis Display with 15"       HMI Bee       +       +         MPC F/Hee       +       Magelis Display with 15"       +       +         Magelis Diversal/Performance       MPC NB5 0NAN 00N       +       +       +         *       MPC F/Hee       +       Magelis Universal/Performance       HMI Bee       +         Magelis Diversal/Performance       Parel PC       +       +       +       +         Magelis Diversal/Performance       Parel PC       +       +						
24 V == or 100240 V ~ (2)       Magelis fDisplay with 15" screen, 100240 V ~ +       MPC YT5 0NAN 00N +         *       *       Magelis fDisplay with 15" screen, 100240 V ~ +       HMI Bees essee (4)         BOX PC, 24 V ==       Magelis fDisplay with 15" screen, 24 V ==       HMI DID7 DT0 +         *       *       Magelis fDisplay with 15" screen, 24 V ==       HMI DID7 DT0 +         *       *       Magelis fDisplay with 15" screen, 24 V ==       HMI Bees essee (4)         Front Panel with 15" touch screen and keypad +       *       MPC YB5 0NNN 00N +         *       MPC F/Hee essee       MPC F/Hee essee (4)       MPC NB5 0NAN 00N +         *       Magelis fDisplay with 15" screen and keypad +       *       HMI Bees essee (4)         *       MPC F/Hee essee (4)       MPC V ~ +       HMI Bees essee (4)         *       MPC F/Hee essee (4)       *       *         *       MPC F/Hee essee (4)       *       *         *       MPC F/Hee essee (4)       *       *       *         *       MPC F/Hee essee (4)	24 V == or 100240 V ~ (2)       Magelis /Display with 15" screeen, 100240 V ~ +       MPC YT5 0NAN 00N +         Magelis /Display with 15" screeen, 100240 V ~ +       +       HMI Beee exerce (4)         Magelis /Display with 15" screeen, 24 V ==       HMI DID7 DT0 +         Magelis /Display with 15" screen, 24 V ==       +         Magelis /Display with 15" screen, 24 V ==       +         Magelis /Display with 15" screen, 24 V ==       +         Magelis /Display with 15" screen, 24 V ==       +         Magelis /Display with 15" screen, 24 V ==       +         Magelis /Display with 15" screen and keypad, 100240 V ~       +         Magelis /Display with 15" screen and keypad, 100240 V ~       +         Magelis /Display with 19" touch screen, 14W Performance BOX PC, 24 V ==       +         Front Panel with 19" touch screen, 24 V ==       +         MPC F/Hee exerce       +       Magelis /Display with 10" screen, 24 V ==         Magelis /Display with 19" touch screen, 24 V ==       +       +         MPC F/Hee exerce       +       Magelis /Display with 10" screen, 100240 V ~       +         Magelis /Display with 19" screen, 24 V ==       +       +       +         Magelis /Display with 10" screen, 100240 V ~       +       +       +         Magelis /Display with 10" screen, 100240 V ~	screen	+	Performance Panel PC 15" touch screen,	HMI P••7 ••••		
BOX PC, 24 V ==:       Magelis /Display with 15"       HMI DID7 DT0         screen, 24 V ==:       +         Magelis /Display with 15"       +         HMI Beee exerces       +         Magelis /Display with 15"       +         HMI Beee exerces       +         Magelis /Display with 15"       +         HMI Beee exerces       +         Magelis /Display with 15"       MPC NB5 0NAN 00N         +       +         Magelis /Display with 15"       MPC NB5 0NAN 00N         +       +         Magelis Flex PC BOX       +         Pront Panel with 19" touch       MPC YT9 0NNN 00N         +       +         Magelis Universal/Performance       HMI Beee exerces         Front Panel with 19" touch       +         Screen       +         Magelis Universal/Performance       HMI Pee9 exerce         Panel PC       Panel PC         Panel PC       +         Magelis /Display with 19"       MPC YT9 0NAN 00N	BOX PC, 24 V :::       Magelis :Display with 15"         Magelis :Display with 15"       HMI DID7 DT0         *       *         Magelis Universal/Performance       HMI Bees essee (4)         BOX PC, 24 V :::       HMI Bees essee (4)         Magelis :Display with 15"       *         Screen and keypad       *         *       Magelis :Display with 15"         *       MPC F/Hee essee essee         *       *         Magelis Diversal/Performance       MPC NB5 0NAN 00N         *       *         Magelis Flex PC BOX       MPC F/Hee essee essee         *       Magelis Universal/Performance         BOX PC, 24 V :::       Magelis Universal/Performance         BOX PC, 24 V :::       *         *       Magelis Universal/Performance         BOX PC, 24 V :::       *         *       Magelis Universal/Performance         BOX PC, 24 V ::::       *         *       *         *       *         MPC F/Hee essee       *         *       *         *       *         *       *         *       *         *       *         *       *     <			Magelis iDisplay with 15"			
screen, 24 V ::::       +         Magelis Universal/Performance BOX PC, 24 V ::::       +         HMI Been energy       +         Magelis Universal/Performance BOX PC, 24 V ::::       MPC NB5 ONAN 00N +         Magelis Flex PC BOX 24 V :::: or 100240 V ~ (2)       MPC F/Hee energy         Front Panel with 19" touch bcreen 24 V :::: or 100240 V ~ (2)       MPC YT9 ONNN 00N +         Magelis Universal/Performance BOX PC, 24 V ::::       HMI Pee9 energy         Magelis Universal/Performance BOX PC, 24 V ::::       HMI Pee9 energy         MPC F/Hee energy       -         Magelis Universal/Performance BOX PC, 24 V ::::       HMI Pee9 energy         Magelis Universal/Performance BOX PC, 24 V ::::       HMI Pee9 energy         Magelis Flex PC BOX 24 V :::: or 100240 V ~ (2)       Magelis JDisplay with 19"	screen, 24 V       +         Magelis Universal/Performance       +         HMI Been energy       +         HMI Peeg energy       +         HMI Peeg energy       +         HMI Peeg energy       +         HMagelis Flex PC BOX       +         Magelis Flex PC BOX       +         MAPC F/Hee energy       +         MARC F/Hee energy       +         Magelis JDisplay with 19"       MPC YT9 ONAN 00N         +       +       +         Magelis Universal/Performance       +         H				<b>НМІ Вөөө өөөө</b> (4)		
Magelis Universal/Performance BOX PC, 24 V ==       HMI Beese essee (4)         Front Panel with 15" touch screen and keypad + Magelis Flex PC BOX 24 V == or 100240 V ~ (2)       MPC YB5 0NNN 00N + MPC F/Hee essee MPC F/Hee essee Escreen + MPC F/Hee essee MPC YT9 0NNN 00N + Magelis Universal/Performance BOX PC, 24 V ==       MPC NB5 0NAN 00N + HMI Beese essee (4)         Front Panel with 19" touch screen + Magelis Flex PC BOX 24 V == or 100240 V ~ (2)       MPC YT9 0NNN 00N + MPC F/Hee essee Escreen, 24 V == or 100240 V ~ Magelis <i>i</i> Display with 19"       HMI Pee9 essee HMI Pee9 essee HMI Pee9 essee Panel PC 19" touch screen, 24 V == or 100240 V ~	Magelis Universal/Performance BOX PC, 24 V ==       HMI Beee evee (4) BOX PC, 24 V ==         Front Panel with 15" touch two Magelis Flex PC BOX 24 V == or 100240 V ~ (2)       MPC YBS ONNN 00N two MPC F/Hee evee Panel With 19" touch two Magelis Universal/Performance BOX PC, 24 V ==       MPC NB5 ONAN 00N two Screen and keypad, two Magelis Universal/Performance BOX PC, 24 V ==         Front Panel with 19" touch two Magelis Flex PC BOX 24 V == or 100240 V ~ (2)       MPC YT9 ONNN 00N two Magelis Universal/Performance Panel PC 19" touch screen, 24 V == or 100240 V ~ Magelis JDisplay with 19" screen, 100240 V ~ HMI Beee evee (4)       HMI Pee9 evee Panel PC 19" touch screen, 24 V == or 100240 V ~ two HMI Beee evee (4)			screen, 24 V			
screen and keypad + MPC F/Hee even 24 V or 100240 V ~ (2) Front Panel with 19" touch screen + MPC F/Hee even MPC F/Hee even MPC F/Hee even + MPC F/Hee even MPC F/Hee even + MPC F/Hee even MPC F/Hee even + MPC YT9 0NAN 00N MPC YT9 0NAN 00N	screen and keypad + Magelis Flex PC BOX 24 V or 100240 V ~ (2) Front Panel with 19" touch screen + MPC F/Hee even Eront Panel with 19" touch screen + MPC F/Hee even MPC YT9 0NNN 00N + MPC F/Hee even + MPC YT9 0NAN 00N + + Magelis Universal/Performance + MPC YT9 0NAN 00N + + Magelis Universal/Performance + MPC YT9 0NAN 00N + + MPC YT9 0NAN 00N + + Magelis Universal/Performance + Magelis JDisplay with 19" + MPC YT9 0NAN 00N + + Magelis Universal/Performance + MPC YT9 0NAN 00N + + Magelis Universal/Performance + MPC YT9 0NAN 00N + + Magelis Universal/Performance + MPC YT9 0NAN 00N + + MAGELS PERFORMAN + MAGELS PERFORMAN + MAGELS PERFORMAN + + MAGELS PERFORMAN + + + MAGELS PERFORMAN + + + + MAGELS PERFORMAN + + + + + + + + + + + + +			Magelis Universal/Performance	HMI B••• •••• (4)		
Magelis Flex PC BOX       MPC F/Hee evene       +       HMI Beee evene (4)         V4 V :::: or 100240 V ~ (2)       Magelis Universal/Performance BOX PC, 24 V ::::       Magelis Universal/Performance BOX PC, 24 V ::::         Front Panel with 19" touch screen       MPC YT9 0NNN 00N       Magelis Universal/Performance HMI Pee9 evene         -       -       Panel PC         -       -       19" touch screen, 24 V :::: or 100240 V ~         Vagelis /Display with 19"       MPC YT9 0NAN 00N	Magelis Flex PC BOX       MPC F/Hee evene       +       HMI Bee evene (4)         Magelis Flex PC BOX       MPC YT9 0NNN 00N       +       Magelis Universal/Performance         Front Panel with 19" touch       MPC YT9 0NNN 00N       +       Magelis Universal/Performance         Front Panel with 19" touch       +       Magelis Universal/Performance       HMI Pee9 evene         Adgelis Flex PC BOX       +       Panel PC       19" touch screen, 24 V       19" touch screen, 24 V         Magelis JDisplay with 19"       MPC YT9 0NAN 00N       +       +         Magelis Universal/Performance       HMI Beee evene (4)       +			screen and keypad,			
Front Panel with 19" touch       MPC YT9 0NNN 00N       Magelis Universal/Performance       HMI Pee9 eeeee         screen       +       Panel PC       19" touch screen,         +       MPC F/Hee eeee       19" touch screen,       24 V = or 100240 V ~         24 V = or 100240 V ~ (2)       Magelis <i>i</i> Display with 19"       MPC YT9 0NAN 00N	Front Panel with 19" touch screen + Magelis Flex PC BOX 24 V == or 100240 V ~ (2)	+ Magelis Flex PC BOX 24 V or 100…240 V 〜 (2)	МРС F/Нөө өөөө өөө	+ Magelis Universal/Performance	. ,		
Magelis Flex PC BOX         MPC F/Hee eeee eee         19" touch screen, 24 V or 100240 V ~           24 V or 100240 V ~ (2)         Magelis <i>i</i> Display with 19"         MPC YT9 ONAN 00N	Magelis Flex PC BOX       MPC F/Hee eeee eee       19" touch screen, 24 V or 100240 V ~         24 V or 100240 V ~ (2)       Magelis <i>i</i> Display with 19"       MPC YT9 0NAN 00N screen, 100240 V ~         *       *       *         Magelis Universal/Performance       HMI Beee eeeee (4)	Front Panel with 19" touch	MPC YT9 0NNN 00N		HMI P••9 ••••		
24 V == or 100240 V ~ (2) Magelis <i>i</i> Display with 19" MPC YT9 ONAN 00N	24 V or 100240 V ~ (2)       Magelis iDisplay with 19"       MPC YT9 0NAN 00N         screen, 100240 V ~       +         +       Magelis Universal/Performance       HMI Beee eeeee (4)	÷		19" touch screen,			
screen, 100240 V ~ +	Magens Oniversally enormance	24 V or 100240 V ∼ (2)					
Mageis Oniversal/Tenomance					НМІ Вөөө өөөөө <i>(4)</i>		

Cut-out or Identical screen Different definition

(1) Complete references: Magelis Panel, see pages 3/17, 3/26 or 3/28 / Magelis iDisplay, see page 3/47 / Magelis BOX PC, see page 3/40.
(2) Power provided by the Magelis Flex PC BOX CPU; the type of power supply depends on the CPU model.
(3) Correspondence between different screen functions: touch screen + keypad/touch screen.
(4) Correspondence between possibly different power supplies: 100...240 V ~/24 V .....

Magelis <i>i</i> PC selection guide:	
page 3/10	

Magelis Panel PC: pages 3/16 and 3/22

Magelis BOX PC: page 3/36

# **Industrial PCs**

Magelis[™] *i*PCs certified for automation Magelis[™] BOX PC Universal and Performance ranges

Туре		Universal range - 1 PCI s	lot	
Industrial environ	ments	Maintenance-free		Standard
Fanless		****	****	****
Diskless		****	****	-
CPU (1)	Processor	Intel [®] ATOM [™] N270 (1.6 0	2Hz)	
	PCI slot	1 PCI	(2)	
	Storage	Compact Flash card ≥ 4 G (SLC technology)	B Flash disk ≥ 60 GB with 5 ye warranty <i>(3)</i>	ear Hard disk ≥ 250 GB
	RAM (2)	1 GB	HMI BUFN D1PF1: 2 GB HMI BUFN D1P01: 1 GB	1 GB
	Integrated DVD-RW drive	-		
	Slide-in rack for peripheral device	1 x slide-in compact rack f storage disk	or 1 x slide-in compact rack fo disk included)	r storage disk (Flash disk or ha
	Integrated ports	2 x Ethernet 10/100/1000 1 x USB 2.0 (1 A) on the fr 2 x RS232C 1 x DVI (VGA RGB adapto	ont panel + 4 x USB 2.0 (0.5 and 1 /	A) at the top
	Optional ports	1 x RS232C/RS422/RS48		
	Optional RAID PCI card	RAID PCI card with 2 redu		
Operating system		Windows [®] Embedded Standard 2009	Windows® XP Professional	SP3
Supply voltage	Voltage Current (excluding PCI card)	24 V (± 25%) <i>(4)</i> Nominal current 6 A. Typic	al inrush current 7 A, 50 A < 300 μs	
Mounting Overall dimensior	ns (W x H x D in mm)	Vertical, at the back of the 82 x 270 x 251	enclosure ("book" format) or flat (re	equiring fan kit HMI YBFKT 11)
Temperature	during operation	Conforming to IEC 61132-	2, UL 508: 050°C (mounted verti	cally) or 045°C (mounted fla
Vibration resistance during operation	Continuous	1.75 mm amplitude from 2	9 Hz, 0.5 g from 9200Hz <i>(5)</i>	0.125 g from 5100 Hz
<b>3 1</b>	Non-continuous	3.5 mm amplitude from 2.	9 Hz, 1 g from 9200Hz <i>(5)</i>	0.250 g from 5100 Hz
	Merchant navy IACS E10	1 mm amplitude from 5 90 minutes endurance	13.2 Hz, 0.7 g from 13.2100Hz,	-
Shock resistance	During operation	15 g/11 ms conforming to	IEC 60068-2-27 test Ea	
Standards and ce	rtifications		2.2 n°142), cULus Haz Loc Class I ), ATEX II 3 Dust zone 22, C-Tick, G	
Marine certificatio	n Germanischer Lloyd (Bridge Class)	With power supply filter H		-
Compatible scree	ns	The whole range of Mage	is <i>i</i> Display screens (see page 3/44	
Software	Vijeo Designer Run Time Demo	Vijeo Designer Run Time separately (VJDSNRTMP	Demo (21-day trial version). Unlimit C)	ed licence, to be ordered
References	Vijeo Designer Run Time Demo Vijeo Citect Full 500 I/O	-	HMI BUFN D1PF1	-
	Vijeo Designer Run Time Demo	HMI BUCN D1E01	HMI BUFN D1P01	HMI BUHN D1P01

Memory capacity not user-expandable; increased capacity available in made-to-order configuration (see page 3/42).
 For other available options (interface for backup battery, etc.) in made-to-order configuration, see pages 3/41 and 3/42.
 For general conditions of manufacturer's 5 year warranty: please consult our Customer Care Centre.

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Universal range - 2 PCI sl	ots	Performance range - 2 PC	CI slots	Performance range - 5 PC	I slots
Maintenance-free	Standard	Harsh	Standard	Harsh	Standard
****	****	-	-	-	-
****	-	****	-	****	-
Intel [®] ATOM [™] N270 (1.6 G	11-1	Intel [®] Core [™] 2 Duo P8400		ahinaat	
2 (1 PCI + 1 PCI Express [®] )	ΠZ)	Intel [®] Cole ^{®®} 2 Duo Po400	(2.20 GHZ) + IIItel* GW45	5 (2 PCI + 3 PCI Express [®] )	
Flash disk $\ge$ 60 GB with	Hard disk ≥ 250 GB	Flash disk ≥ 60 GB with	Hard disk ≥ 250 GB	Flash disk $\ge 60$ GB with	Hard disk ≥ 250 GB
5 year warranty (3)		5 year warranty (3)		5 year warranty $(3)$	
HMI BUFN D2PF1: 2 GB	1 GB	HMI BPFD D27F1: 4 GB	2 GB	HMI BPFD D57F1: 4 GB	2 GB
HMI BUFN D2P01: 1 GB		HMI BPFD D2701: 2 GB		HMI BPFD D5701: 2 GB	
	W drive (included) or stora	or hard disk included) ge disk via adaptor (optional	)	1 x slide-in compact rack fo or hard disk included) 1 x slide-in rack for DVD-R 1 x slide-in rack for storage	N drive (supplied)
2 x Ethernet 10/100/1000 M 1 x USB 2.0 (1 A) on the fro 2 x RS232C	•	5 and 1 A) at the top			
1 x DVI (VGA RGB adaptor 1 x RS232C/RS422/RS485 RAID PCI card with 2 redur	i, 1 x DVI				
Windows® XP Professional	SP3	Windows® 7 Ultimate 64-bi	t		
24 V (± 25%) (4) Nominal current 6 A. Typica	al inrush current 7 A, 50 A <	: 300 µs			
Vertical, at the back of the e 121 x 270 x 251	enclosure ("book" format) c	r flat (requiring fan kit HMI Y 136 x 270 x 251	BFKT 21, for BOX PC HMI	BU•N D2P•1) 217 x 270 x 251	
121 X 210 X 201		100 X 210 X 201		211 X 210 X 201	
Conforming to IEC 61132-2	2, UL 508: 050°C (mount	ed vertically) or 045°C (me	ounted flat)		
1.75 mm amplitude from 29 Hz, 0.5 g from 9200Hz <i>(5)</i>	0.125 g from 5100 Hz	1.75 mm amplitude from 29 Hz, 0.5 g from 9200Hz <i>(</i> 5)	0.125 g from 5100 Hz	1.75 mm amplitude from 29 Hz, 0.5 g from 9200Hz <i>(5)</i>	0.125 g from 5100 Hz
3.5 mm amplitude from 29 Hz, 1 g from 9200Hz <i>(5)</i>	0.250 g from 5100 Hz	3.5 mm amplitude from 29 Hz, 1 g from 9200Hz <i>(5)</i>	0.250 g from 5100 Hz	3.5 mm amplitude from 29 Hz, 1 g from 9200Hz <i>(5)</i>	0.250 g from 5100 Hz
1 mm from 513.2 Hz, 0.7 g from 13.2100Hz, 90 minutes endurance	-	1 g 1011 02001 2 (0)		1 g 1011 02001 2 (0)	
15 g/11 ms conforming to IE	EC 60068-2-27 test Ea				
CE, cULus (UL 508, CSA 22	2.2 n°142), cULus Haz Loc	Class I Div 2 (ANSI/ISA 12.1	12.01, UL 1604, CSA 22.2 I	n°213), ATEX II 3 Dust zone :	22, C-Tick, GOST
With power supply filter HMI YLFI MAR11	-				
The whole range of Magelis	iDisplay screens (see page	ge 3/44)			
Vijeo Designer Run Time D	emo (21-day trial version).	Unlimited licence, to be ord	ered separately (VJDSNR ⁻	TMPC)	
HMI BUFN D2PF1	_	HMI BPFD D27F1	_	HMI BPFD D57F1	_

HMI BUFN D2PF1	-	HMI BPFD D27F1	-	HMI BPFD D57F1	-
HMI BUFN D2P01	HMI BUHN D2P01	HMI BPFD D2701	HMI BPHD D2701	HMI BPFD D5701	HMI BPHD D5701
3/40					

See configured Magelis BOX PC on page 3/42

(4) For an  $\sim$  supply voltage, an external Phaseo power supply can be used (see page 3/41). (5) Conforming to IEC 60068-2-6 Fc.

OS More technical information on www.schneider-electric.com

# Presentation

Industrial PCs Magelis[™] *i*PCs certified for automation Magelis[™] BOX PC Universal and Performance ranges



Universal BOX PC 1 PCI



Universal BOX PC/Performance BOX PC 1 PCI + 1 PCI Express®



Performance BOX PC 2 PCI + 3 PCI Express®

### Presentation

The Magelis BOX PC industrial PC offer includes products that are rugged and certified for automation applications.

With its Universal (1 or 2 PCI slots) and Performance (2 or 5 PCI slots) ranges, this Magelis BOX PC offer is suitable for all types of use that do not require an integrated screen:

■ In a maintenance-free environment: Fanless Magelis BOX PC (unaffected by dust, no filters to clean, etc.) and without any rotating parts such as a hard disk. Data storage on Compact Flash card or on Flash disk offers good resistance to vibration and long life.

- In a harsh environment: Magelis BOX PC without hard disk
- In a standard environment: Magelis BOX PC with hard disk

In addition to the referenced offer, the flexibility offered by the modular design allows made-to-order configuration of the Magelis BOX PC (see page 3/42).

This offer is compatible with Magelis iDisplay screens (see page 3/44).

### Overview of the range

### Universal Magelis BOX PC range (1) (2)

The Universal BOX PC range is equipped with the fanless Intel[®] ATOM[™] N270 processor (1.6 GHz) and DDR2 RAM (3).

It is specifically for the following environments:

- "Maintenance-free" (fanless, with solid-state storage disk):
- □ HMI BUCN D1E01:
- 1 PCI slot/Compact Flash card/Windows[®] Embedded Standard 2009, etc. □ HMI BUFN D1P01 and HMI BUFN D1 PF1:
- 1 PCI slot, Flash disk, Windows® XP Professional SP3, etc. □ HMI BUFN D2P01 and HMI BUFN D2 PF1:
  - 1 PCI + 1 PCI Express[®] slot/Flash disk/Windows[®] XP Professional SP3, etc.
- Standard industrial environments (with hard disk):
- HMI BUHN D1P01:
  - 1 PCI slot/hard disk/Windows® XP Professional SP3, etc.
- □ HMI BUHN D2P01:
  - 1 PCI + 1 PCI Express® slot/hard disk/Windows® XP Professional SP3, etc.

### Performance Magelis BOX PC range (1) (2)

The Performance BOX PC range is equipped with the Intel[®] Core[™] 2 Duo P8400 processor (2.26 GHz) + Intel[®] GM45 chipset and DDR3 RAM (3).

- It is specifically for the following environments:
- Harsh industrial environments (with solid-state storage disk):
- □ HMI BPFD D2701 and HMI BPFD D27F1:
- 1 PCI + 1 PCI Express[®] /Flash disk/Windows[®] 7 Ultimate 64-bit, etc. □ HMI BPFD D5701 and HMI BPFD D57F1:
  - 2 PCI + 3 PCI Express® /Flash disk/Windows® 7 Ultimate 64-bit, etc.
- Standard industrial environments (with hard disk):
- □ HMI BPHD D2701:
- 1 PCI + 1 PCI Express[®] /hard disk/Windows[®] 7 Ultimate 64-bit, etc. □ HMI BPHD D5701:
  - 2 PCI + 3 PCI Express[®] /hard disk/Windows[®] 7 Ultimate 64-bit, etc.

(1) Types of PCI slot: Half-format PCI 2.2 and half-format PCI Express® (1x for Magelis BOX PC 1 or 5 slots, 4x for Magelis BOX PC 2 slots).

(2) For description, see pages 3/38 and 3/39.

(3) Not user-expandable; increased capacity available in made-to-order configuration (see page 3/42).

3

Magelis *i*PC selection guide: page 3/10

# **Industrial PCs**

Magelis[™] *i*PCs certified for automation Magelis[™] BOX PC Universal and Performance ranges

### Presentation (continued)

Overview of the range (continued)

Made-to-order Magelis BOX PC range (1)

On Universal and Performance Magelis BOX PC bases, it is possible to customize the CPU by selecting:

- The capacity of the Compact Flash card and the RAM
- The number of PCI and PCI Express[®] slots
- The operating system and dedicated HMI software
   Additional assembled options: PCI RAID card with 2 redundant hard disks (2),

battery-backed power supply interface module, etc.

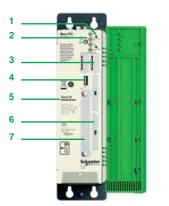
For this HMI PCCB1 offer see page 3/42.

(1) Types of PCI slot: Half-format PCI 2.2 and half-format PCI Express® (1x for Magelis BOX PC 1 or 5 slots, 4x for Magelis BOX PC 2 slots).

(2) Operating temperature details available on our website www.schneider-electric.com.

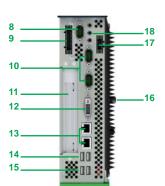
# Industrial PCs

Magelis[™] *i*PCs certified for automation Magelis[™] BOX PC Universal and Performance ranges



Front panel of Magelis BOX PC, door open 1 PCI slot

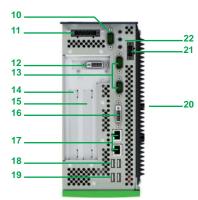
3



Top panel of Magelis BOX PC 1 PCI slot



Front panel of Magelis BOX PC, door open 2 PCI slots



Top panel of Magelis BOX PC 2 PCI slots

### Description

### Universal Magelis BOX PC CPUs, 1 PCI slot

### Front panel, door open

- 2 pushbuttons: 1 for the power supply and 1 for resetting 1
- 2 4 status and power supply LEDs, also visible with the front panel door closed
- Battery 3
- USB 2.0 port (1 A max.) 4
- 5 Identification (reference, serial number, etc.)
- 6 Slot for Compact Flash card:
- With Compact Flash (SLC technology) ≥ 4GB (BOX PC HMI BUCN D1E01)
- Free slot (BOX PC HMI BUFN D1Pe1, BOX PC HMI BUHN D1P01)
- 7 Slide-in compact rack:
- □ Free slot (BOX PC HMI BUCN D1E01)
- With Flash disk (1) (SLC technology SSD) ≥ 60 GB (BOX PC HMI BUFN D1Pe1)
- □ With hard disk  $\ge$  250 GB (BOX PC **HMI BUHN D1P01**)

### Top panel

- Free slot for additional RS232C/RS422/RS485 serial link interface 8 (HMI YBIN SL 11) (2)
- 9 Free slot for battery-backed power supply interface module (3)
- 10 2 RS232C ports
- 11 Half-format PCI 2.2 slot
- 12 DVI port RGB connection with adaptor (HMI YAD DVI RGB 11) (2)
- 13 2 Ethernet 10/100/1000 Mbps ports
- 14 2 USB 2.0 ports (0.5 A max.)
- 15 2 USB 2.0 ports (1 A max.)
- 16 Heat sink (4)
- 17 Connector for the CPU 24 V ----/6 A power supply (5)
- 18 Micro input, line input/line output

### Universal and Performance Magelis BOX PC CPUs, 2 PCI slots Front panel, door open

- 1 2 pushbuttons: 1 for the power supply and 1 for resetting
- 2 4 status and power supply LEDs, also visible with the front panel door closed
- 3 Batterv
- 4 USB 2.0 port (1 A max.)
- 5 Identification (reference, serial number, etc.)
- Free slot for Compact Flash card 6
- 7 Slide-in compact rack:
- With Flash disk (1) (SLC technology SSD) ≥ 60 GB (BOX PC HMI BeFe D2ee1)
- □ With hard disk ≥ 250 GB (BOX PC HMI BeHe D2e01)
- Slide-in rack with the DVD-RW drive included (6). Can be used for an additional storage disk with adaptor (HMI YAD SLIDEIN 11) (2)
- 9 Access to the fan filters (7) (BOX PC HMI BP•D D•7•1)

### Top panel

- 10 Free slot for additional RS232C/RS422/RS485 serial link interface (HMI YBIN SL 11) (2)
- 11 Free slot for battery-backed power supply interface module (3)
- 12 Free slot for additional DVI interface (HMI YIN DVI RGB 11) (2)
- 13 2 RS232C ports
- 14 Half-format PCI Express® 4x slot
- 15 Half-format PCI 2.2 slot
- 16 DVI port RGB connection with adaptor (HMI YAD DVI RGB 11) (2)
- 17 2 Ethernet 10/100/1000 Mbps ports
- 18 2 USB 2.0 ports (0.5 A max.)
- 19 2 USB 2.0 ports (1 A max.)
- 20 Heat sink (4)
- 21 Connector for the CPU 24 V ----/6 A power supply (5)
- 22 Micro input, line input/line output
- (1) Flash disk (SSD) with manufacturer's 5 year warranty. Please consult our Customer Care Centre.
- (2) To be ordered separately (see page 3/41).(3) To be ordered separately in made-to-order configuration (see page 3/42).
- (4) For installation, please refer to the "product data sheet" on our website
- www.schneider-electric.com.

(5) Consumption excluding additional PCI card. For an  $\sim$  supply voltage, an external Phaseo power supply can be used (see page 3/41).

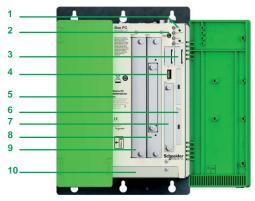
(6) Operating temperature details available on our website www.schneider-electric.com. (7) Fans can be replaced by the user using the BOX PC fan kit (to be ordered separately, see page 3/41).

### Schneider

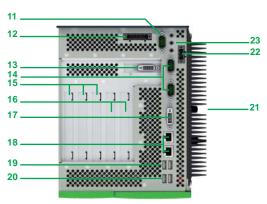
# **Description** (continued)

# **Industrial PCs**

Magelis[™] *i*PCs certified for automation Magelis[™] BOX PC Performance range



Front panel of Magelis BOX PC, door open 5 PCI slots



Top panel of Magelis BOX PC 5 PCI slots

### **Description** (continued)

### Performance Magelis BOX PC CPUs, 5 PCI slots

- Front panel, door open
- 2 pushbuttons: 1 for the power supply and 1 for resetting 1
- 2 4 status and power supply LEDs, also visible with the front panel door closed Battery
- 3 4
- USB 2.0 port (1 A max.)
- 5 Identification (reference, serial number, etc.) Free slot for Compact Flash card
- 6
- 7 Slide-in compact rack:
- With Flash disk (1) (SLC technology SSD) ≥ 60 GB (BOX PC HMI BPFD D57•1)
- With hard disk ≥ 250 GB (BOX PC HMI BPHD D5701)
- 8 Slide-in rack with the DVD-RW drive included (2)
- 9 Slide-in rack for additional storage disk with adaptor (HMI YAD SLIDEIN 11) (3)
- 10 Access to the fan filters (4)

### Top panel

- 11 Free slot for additional RS232C/RS422/RS485 serial link interface (HMI YBIN SL 11) (3)
- 12 Free slot for battery-backed power supply interface module (5)
- 13 Free slot for additional DVI interface (HMI YIN DVI RGB 11) (3)
- 14 2 RS232C ports
- 15 3 half-format PCI Express® 1x slots
- 16 2 half-format PCI 2.2 slots
- 17 DVI port RGB connection with adaptor (HMI YAD DVI RGB 11) (2)
- 18 2 Ethernet 10/100/1000 Mbps ports
- 19 2 USB 2.0 ports (0.5 A max.)
- 20 2 USB 2.0 ports (1 A max.)
- 21 Heat sink (6)
- 22 Connector for the CPU 24 V ===-/6 A power supply (7)
- 23 Micro input, line input/line output

(1) Flash disk (SSD) with manufacturer's 5 year warranty. Please consult our Customer Care Centre. (2)Operating temperature details available on our website www.schneider-electric.com. (3) To be ordered separately (see page 3/41).

(4) Fans can be replaced by the user using the BOX PC fan kit (to be ordered separately, see page 3/41). (5) To be ordered separately in made-to-order configuration (see page 3/42).

(6) Refer to the installation precautions available on our website www.schneider-electric.com. (7) Consumption excluding additional PCI card. For an  $\sim$  supply voltage, an external Phaseo power supply can be used (see page 3/41).

Schneider

References

### Industrial PCs Magelis[™] *i*PCs certified for automation Magelis[™] BOX PC Universal and Performance ranges

DDR2 RAM Reference

(5)

Weight

kg



1

1

1

HMI BU•N D1••1

3



HMI BU•N D2P•1 HMI BP•D D27•1



HMI BP•D D57•1

PCI slot Operating Software Storage disk system

Universal Magelis BOX PC, 1 or 2 PCI slots

(Intel® ATOM™ N270 processor (1.6 GHz)/DDR2 RAM/24 V .... supply voltage) (1)

For maintenan	ce-free environ	ment				
1 PCI	Windows [®] Embedded Standard 2009 <i>(</i> 2 <i>)</i>	Vijeo Designer RT Demo <i>(3)</i>	Compact Flash ≥ 4 GB	1 GB	HMI BUCN D1E01	4.000
	Windows [®] XP Professional SP3	Vijeo Designer RT Demo <i>(3)</i>	Flash disk $\ge$ 60 GB with 5 year warranty (4)	1 GB	HMI BUFN D1P01	4.000
		Vijeo Designer RT Demo (3) Vijeo Citect Full 500 I/O	Flash disk ≥ 60 GB with 5 year warranty <i>(4)</i>	2 GB	HMI BUFN D1PF1	4.000
1 PCI + 1 PCI Express®	Windows [®] XP Professional	Vijeo Designer RT Demo <i>(3)</i>	Flash disk $\ge$ 60 GB with 5 year warranty (4)	1 GB	HMI BUFN D2P01	5.000
	SP3	Vijeo Designer RT Demo (3) Vijeo Citect Full 500 I/O	Flash disk ≥ 60 GB with 5 year warranty <i>(4)</i>	2 GB	HMI BUFN D2PF1	5.000

For standard industrial environment									
1 PCI	Windows [®] XP Professional SP3	Vijeo Designer RT Demo <i>(3)</i>	Hard disk≥250 GB	1 GB	HMI BUHN D1P01	4,000			
1 PCI + 1 PCI Express®	Windows [®] XP Professional SP3	Vijeo Designer RT Demo <i>(3)</i>	Hard disk ≥ 250 GB	1 GB	HMI BUHN D2P01	5.000			

### Performance Magelis BOX PC, 2 or 5 PCI slots

(Intel [®] Core™	2 Duo P8400 pro	cessor (2.26 G	iHz) / DDR3 RAM / 24 V	· supply v	voltage) (1)	
PCI slot	Operating system	Software	Storage disk	DDR3 RAM (5)	Reference	Weight kg
For standard	industrial enviro	onment				
1 PCI + 1 PCI Express®	Windows [®] 7 Ultimate 64-bit	Vijeo Designer RT Demo <i>(3)</i>	Hard disk ≥ 250 GB	2 GB	HMI BPHD D2701	6.000
2 PCI + 3 PCI Express®	Windows [®] 7 Ultimate 64-bit	Vijeo Designer RT Demo <i>(3)</i>	Hard disk ≥ 250 GB	2 GB	HMI BPHD D5701	7.000

### For harsh industrial environment

i oi maroni ma		ioni				
1 PCI + 1 PCI Express®	Windows [®] 7 Ultimate 64-bit	Vijeo Designer RT Demo <i>(3)</i>	Flash disk $\ge$ 60 GB with 5 year warranty (4)	2 GB	HMI BPFD D2701	6,000
		Vijeo Designer RT Demo <i>(3)</i> Vijeo Citect Full 500 I/O	Flash disk $\ge$ 60 GB with 5 year warranty (4)	4 GB	HMI BPFD D27F1	6,000
2 PCI + 3 PCI Express®	Windows [®] 7 Ultimate 64-bit	Vijeo Designer RT Demo <i>(3)</i>	Flash disk $\ge$ 60 GB with 5 year warranty (4)	2 GB	HMI BPFD D5701	7.000
		Vijeo Designer RT Demo (3) Vijeo Citect Full 500 I/O	Flash disk ≥ 60 GB with 5 year warranty <i>(4)</i>	4 GB	HMI BPFD D57F1	7.000

(1) For an  $\sim$  supply voltage, an external Phaseo power supply can be used (see page 3/41).

(2) Windows® Embedded Standard 2009 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:

- Acrobat Reader, Word/Excel/Power Point Viewer

- Framework.Net 3.5
- Web browser
- Vijeo Citect Web Client
- Vijeo Designer Run Time Demo (3)

(3) Vijeo Designer RT (Run Time) Demo (21-day trial version). Unlimited licence, to be ordered separately (VJDSNRTMPC) (see page 3/41).

(4) For general conditions of manufacturer's 5 year warranty: please consult our Customer Care Centre.

(5) Memory capacity not user-expandable; increased capacity available in made-to-order configuration (see page 3/42).

Magelis iPC selection guide:	
page 3/10	

Separate components: page 3/41

Equivalent product table: page 3/43

# References (continued)

# **Industrial PCs**

Magelis[™] *i*PCs certified for automation Magelis[™] BOX PC Separate components

Separate component			Reference	Woight	
Description	Details	Compatible with Magelis BOX PC ranges: Universal Performance			Weight
Storage disks, peripheral	aquinment kits	Universal	Performance		kg
Hard disk	250 GB, blank	All models		HMI YHDD 0250 11	-
Flash disk with	60 GB, blank	All models		HMI YSDD 0060 11	_
5 year warranty (1)					
Compact Flash card	2 GB, blank	All models		HMI YCF S02 11	-
(SLC technology)	4 GB, blank	All models		HMI YCF S04 11	-
	8 GB, blank	All models		HMI YCF S08 11	-
DVD-RW drive for slide-in rack (2)	CD-RW and DVD-RW reader/writer	BOX PC, 2 PCI and 5 PC		HMI YDR DVDRW 11	-
Slide-in adaptor for storage disk	Used to insert a hard disk or an SSD Flash disk in a slide-in rack	BOX PC, 2 PCI and 5 PC	Islots	HMI YAD SLIDEIN 11	-
Additional DVI interface	Provides a second DVI interface	BOX PC, 2 PCI and 5 PC	Islots	HMI YIN DVI RGB 11	-
DVI/VGA RGB adaptor	For connecting an RGB screen to the integrated DVI port	All models		HMI YAD DVI RGB 11	-
RAID PCI card with 2 redundant hard disks (2)	PCI card equipped with two 250 GB redundant hard disks	All models		HMI YRAID PCI 11	-
Hard disk for RAID PCI card	Replacement hard disk for RAID PCI card HMI YRAID PCI 11	BOX PC + RAID PCI card HMI YRAID PCI 11		HMI YRAID D0250 11	_
Additional serial link interface	RS232C/RS422/RS485 serial link	All models		HMI YBIN SL 11	-
Backup power supply kit	Provides an uninterruptible power supply. Includes: 1 backup battery 1 x 3 m cordset	Magelis BOX PC configured with battery-backed power supply interface module <i>(3)</i>		HMI YUPS KT 11	_
Power supply filter for marine certification	Necessary for compliance with marine certification.	BOX PC: HMI BUCN D1E01 and HMI BUFN D•P•1	-	HMI YLFI MAR 11	-
Maintenance kit for BOX PC	Includes: 1 x 3-way removable connector for 24 V power supply 15 replacement filters for fan, including: 5 for Magelis BOX PC - 1 PCI 5 for Magelis BOX PC - 2 PCI 5 for Magelis BOX PC - 5 PCI	All models		НМІ ҮВМКТ 11	-
Fan kit for BOX PC	Enables:	BOX PC, 1 PCI		HMI YBFKT 11	
	Replacement of fans by	BOX PC, 2 PCI		HMI YBFKT 21	-
	the user ■ Flat mounting of fanless Magelis BOX PC <i>(4)</i>	BOX PC, 5 PCI		HMI YBFKT 51	-
Software					
Vijeo Designer Run Time licence	Converts the 21-day trial version of Vijeo Designer Run Time Demo to an	All models		VJDSNRTMPC	-
for 1 workstation Intelligent Data Service licence extension for Vijeo Designer Run Time for 1 workstation	unlimited licence. Used to track the process variables and all operator actions, and offers visibility of the key process values	All models (requires storage capacity ≥ 4 GB)		VJDSNTRCKV60M	-
External Phaseo power su	apply				
Phaseo regulated switch mode power supply ABL 8 Rail mounting	Input voltage: 100120 V/200500 V~ (5) Output voltage: 24 V Power: 120 W	All models		<b>ABL 8RPS24050</b> (6) (7)	0.700
Phaseo regulated switch mode power supply ABL 4 Rail mounting	Input voltage: 100230 V $\sim$ (5) Output voltage: 24 V Power: 120 W	All models		<b>ABL 4RSM24050</b> (6) (7)	0.500

(1) For general conditions of manufacturer's 5 year warranty: please consult our Customer Care Centre.
 (2) Operating temperature details available on our website www.schneider-electric.com.
 (3) For configured Magelis BOX PC see page 3/42.
 (4) Operating temperature for flat mounting: 0...45°C (see pages 3/34 and 3/35).
 (5) Single-phase connection. Phase-to-phase connection possible on certain American line supplies, please consult our Customer Care Centre.
 (6) If adding a PCI card, you need to select a Phaseo power supply with a power rating suitable for the extra consumption. Please consult the "Phaseo power supply and transformer" catalogue on our website www.schneider-electric.com.
 (7) To order this reference, please consult our Customer Care Centre.

### **Configured Magelis BOX PC industrial PC**

With the "configured *i*PC" service, Schneider Electric offers a vast number of configuration combinations for Magelis *i*PCs.

This service, available exclusively from our Customer Care Centre, allows users to configure a certified product suitable for specific automation applications and environments, based on Universal and Performance Magelis BOX PCs.

Our Customer Care Centre draws up:

- The complete parts list for the configured Magelis BOX PC
- Its selling price
- The complete reference (root + code which varies according to the configuration)
- A purchase order

### Ordering procedure for a configured Magelis BOX PC

- 1 Please consult our Customer Care Centre.
- 2 State the reference root HMI PCCB1 corresponding to a request for a configured Magelis BOX PC. It will be completed with the variable part of the reference, once configuration is complete.
- 3 Configure your Magelis BOX PC (see table below).
- 4 Confirm your order.

References				
Description			Reference	Weight kg
Configured Magelis BOX PC (1)	Reference root to be stated to ou configuration should be made up	HMI PCCB1 (2)		
Description	Available on Magelis BOX PC b	Reference	Weight	
	Universal Performance		_	kg
	Processor Intel [®] ATOM™ N270 (1.6 GHz) DDR2 RAM Supply voltage 24 V supply voltage	Intel [®] Core [™] 2 Duo P8400 processor (2.26 GHz) DDR3 RAM 24 V supply voltage		
RAM	3 GB max. (DDR2)	8 GB max. (DDR3)	(2)	
Peripheral storage devices	Compact Flash card 8 GB max. (	SLC technology)	_	
	Up to 2 Flash disks ≥ 60 GB with	5 year warranty (3)	_	
	Up to 2 hard disks ≥ 250 GB	_		
Other peripheral device	DVD-RW drive	_		
PCI slot configuration	1 PCI or 1 PCI Express®	_		
	1 PCI + 1 PCI Express [®] or 2 PCI	_		
	2 PCI + 3 PCI Express® or 4 PCI			
Operating systems	Windows® Embedded Standard 2	_		
	Windows [®] Embedded Standard 7	_		
	Windows [®] XP PRO SP3	_		
	Windows [®] 7 Ultimate 32-bit	_		
	Windows [®] 7 Ultimate 64-bit		_	
Software	Vijeo Designer Run Time	_		
	Vijeo Citect			
Assembled options	RAID PCI card with 2 redundant	_		
	Interface module for backup pow HMI YUPS KT 11 backup powers	_		
	Additional RS232C/RS422/RS48	_		
	Additional DVI interface (needs a slots)	configuration with 2 or 5 PCI	_	

(1) Please consult our Customer Care Centre.

(2) The reference of configured Magelis BOX PC industrial PCs is made up of a root (HMI PCCB1) followed by a variable

part generated during configuration.

(3) For general conditions of manufacturer's 5 year warranty: please consult our Customer Care Centre.

Magelis <i>i</i> PC selection guide: page 3/10	Magelis <i>i</i> PC presentation: page 3/12	Separate components: page 3/41	Equivalent product table: page 3/43	Magelis <i>i</i> Display: page 3/46
2/12		Calum af da u		



**Substitution** 

# **Industrial PCs**

Magelis^m *i*PCs certified for automation Equivalent product table

Old in dustrial DO		Developed by Mary P			
Old industrial PCs		Replaced by Magelia			
Description	Reference	Description	References		
Magelis Smart BOX		Magelis BOX PC (1 PCI slot)			
Magelis Smart BOX 100240 V $\sim$	MPC SN0 1NAJ 00T	Universal Magelis BOX PC	HMI BUCN D1E01 + Phaseo power supply (1)		
Magelis Smart BOX 24 V	MPC SN0 1NDJ 00T	Universal Magelis BOX PC	HMI BUCN D1E01		
Magelis Compact PC BO	X (1 PCI slot)	Magelis BOX PC (1 PCI sl	ot)		
Magelis Compact PC BOX 100240 V $\sim$	MPC KN0 2NAX 00N	Universal Magelis BOX PC	HMI BUHN D1P01 + Phaseo power supply (1)		
Magelis Flex PC BOX F (	2 PCI slots)	Magelis BOX PC (2 PCI sl	ots)		
Magelis Flex PC BOX (Celeron M) 100240 V $\sim$	MPC FN0 2NAX 00N	Universal Magelis BOX PC	HMI BUHN D2P01 + Phaseo power supply (1)		
Magelis Flex PC BOX (Celeron M) 24 V	MPC FN0 2NDX 00N	Universal Magelis BOX PC	HMI BUHN D2P01		
Magelis Flex PC BOX (Core Duo) 100240 V $\sim$	MPC FN0 5NAX 00N	Performance Magelis BOX PC	HMI BPHD D2701 + Phaseo power supply (1)		
Magelis Flex PC BOX (Core Duo) 24 V	MPC FN0 5NDX 00N	Performance Magelis BOX PC	HMI BPHD D2701		
Magelis Flex PC BOX (Core Duo) 100240 V $\sim$	MPC FN0 5MAX 00N	Performance Magelis BOX PC	HMI BPFD D2701 + Phaseo power supply (1)		
Magelis Flex PC BOX (Core Duo) 100240 V $\sim$ Vijeo Citect Full 500 I/O	MPC FN0 5MAX 00V	Performance Magelis BOX PC Vijeo Citect Full 500 I/O	HMI BPFD D27F1 + Phaseo power supply (1)		
Magelis Flex PC BOX H (	4 PCI slots)	Magelis BOX PC (5 PCI sl	ots)		
Magelis Flex PC BOX (Celeron M) 100…240 V $\sim$	MPC HN0 2NAX 00N	Performance Magelis BOX PC	HMI BPHD D5701		
Magelis Flex PC BOX (Core Duo) 100240 V $\sim$	MPC HN0 5NAX 00N	Performance Magelis BOX PC	HMI BPHD D5701 + Phaseo power supply (1)		
Magelis Flex PC BOX (Core Duo) 100240 V $\sim$ with backup battery	MPC HN0 5NBX 00N	Configured Magelis BOX PC (2)	HMI PCCB 1B5CB26K10N + kit HMI YUPS KT11 + Phaseo power supply (1)		
Magelis Flex PC BOX (Core Duo) 24 V	MPC HN0 5NDX00N	Performance Magelis BOX PC	HMI BPHD D5701		
Magelis Flex PC BOX (Core Duo) 100240 V $\sim$	MPC HN0 5MAX 00N	Performance Magelis BOX PC	HMI BPFD D5701 + Phaseo power supply (1)		
Magelis Flex PC BOX (Core Duo) 100240 V $\sim$ Vijeo Citect Full 500 I/O	MPC HN0 5MAX 00V	Performance Magelis BOX PC Vijeo Citect Full 500 I/O	HMI BPFD D57F1 + Phaseo power supply (1)		

(1) ABL 8RPS24050 or ABL 4RSM24050 Phaseo power supply (see page 3/41). (2) See page 3/42.

Magelis *i*PC selection guide: page 3/10 Separate components: page 3/41

Schneider Electric Magelis *i*Display: page 3/46

# Selection guide

Industrial PCs Magelis[™] *i*Display screens certified for automation 15" and 19" flat screens

Industrial PCs		Magelis <i>i</i> Display flat screens				
Model		15" touch screens		15" touch screen and keypad		
Screen	Туре	15" colour TFT LCD				
	Definition	XGA 1024 x 768				
	Number of colours	16,777,216				
	Brightness Backlighting service life	≥ 200 cd/m² adjustable 50,000 hours				
Touch screen		Analog resistive, 35 million cycl	es			
Keypad		-		70 standard IBM keys 2 x 20 user function keys		
I/O ports	On the front panel	1 x USB 2.0 type A				
pone	Other	1 x VGA video (analog RGB, 15 1 x DVI-D video (analog RGB, 2 1 x USB 2.0 type B 1 x COM1 (RS 232C, 9-way ma	4-way male DVI-D)			
Standards and cert	ifications	UL 508, CSA, IEC 61131-2	cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n° 213)	UL 1604, UL 508, IEC 61131-2		
Supply voltage		100240 V $\sim$ (98264 V), according to EN 61131-2	24 V (19,228,8 V)	100240 V $\sim$		
Consumption		120 VA max.	17 A (typical inrush current 30 A max.)	200 VA max.		
Degree of protectio	n	IP 65 for the front of the screen IP 20 for the sides and back of t	he screen			
Dimensions	Overall dimensions (W x H x D)	395 x 294 x 60 mm		483 x 365 x 31 mm		
	Cut-out (W x H)	383.5 x 282.5 (+1, -0) mm		441.5 x 313.5 (+1, -0) mm		
Environment	Operating temperature	050°C, according to EN 6113	1-2 and UL			
	Vibration resistance	Conforming to JIS B 3501 and I 59 Hz, 3.5 mm fixed amplit 9150 Hz: constant accelera X, Y, Z directions tested 10 times	ude ation of 1 g (9.8 m/s²)			
Туре		MPC YT5 0NAN 00N	HMI DID 7DT0	MPC NB5 0NAN 00N		
		3/47				

3

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Schneider Gelectric

### Magelis iDisplay flat screens

19" touch screen



19" colour TFT LCD SVGA 1280 x 1024

16,777,216 ≥ 200 cd/m² adjustable 50,000 hours Analog resistive, 35 million cycles

1 x USB 2.0 type A

1 x VGA video (analog RGB, 15-way male SUB-D) 1 x DVI-D video (analog RGB, 24-way male DVI-D) 1 x USB 2.0 type B 1 x COM1 (RS 232C, 9-way male SUB-D)

UL 508, CSA, IEC 61131-2

100...240 V  $\sim$  (85...265 V), according to EN 61131-2

200 VA max.

IP 65 for the front of the screen IP 20 for the sides and back of the screen

460 x 390 x 65 mm

419.5 x 352.5 (+1, -0) mm

 $0...50^\circ\text{C},$  according to EN 61131-2 and UL

Conforming to JIS B 3501 and IEC 61131-2 standards: 5...9 Hz, 3.5 mm fixed amplitude 9...150 Hz: constant acceleration of 1 g (9.8 m/s²)

X, Y, Z directions tested 10 times (100 minutes)

### MPC YT9 0NAN 00N

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More technical information on www.schneider-electric.com

# Presentation

### Industrial PCs Magelis[™] *i*Display screens certified for automation 15" and 19" flat screens



MPC YT5 0NAN 00N and HMI DID 7DT0

### **Presentation**

Magelis  $i\!D$  isplay screens are monitors with industrial flat screens designed for use in conjunction with PCs.

Two screen sizes are available: 15" and 19" to suit various types of requirements.

Featuring the latest TFT LCD technology, they offer top class viewing and extended service life. Their touch screen interface enables easy creation of user-friendly and high performance HMI interfaces.

The Magelis *i*Display screen **MPC NB5 0NAN 00N** also has a 70-key (standard IBM) keypad and user function keys (2 x 20 keys).

Certified in accordance with PLC product standards, designed for use in severe industrial environments and offering an excellent screen size/dimensions ratio, they can be installed easily on any machine and in any equipment. They are suitable for use in any type of environment.

15" Magelis *i*Display screens have the same cut-out dimensions as 15" Magelis Panel PCs, which makes it easy to upgrade installations.



MPC NB5 ONAN OON

### Architecture

Magelis iDisplay screens are compatible with Magelis BOX PC industrial PCs.



Magelis BOX PC

# **Industrial PCs**

Magelis[™] *i*Display screens certified for automation 15" and 19" flat screens

Description	Screen	Interface	Supply voltage	Reference	Weigh kg
Flat screen for flush mounting, P 65 front panel	15", XGA (1024 x 768)	Touch	100240 V $\sim$	<b>MPC YT5 ONAN 00N</b> (1)	
		Touch	24 V	<b>HMI DID 7DT0</b> (2)	
		Touch and keypad	100240 V $\sim$	<b>MPC NB5 0NAN 00N</b> (1)	
	19", SXGA (1280 x 1024)	Touch	100240 V $\sim$	<b>MPC YT9 0NAN 00N</b> (1)	
Separate parts					
Description		For		Reference	Weigh kç
Maintenance kit: mounting brackets + seals		Magelis <i>i</i> PC 15"		MPC YK5 0MNT KIT	
		Magelis <i>i</i> PC 19"		MPC YK9 0MNT KIT	
Protective films for screen: 5 p	beel-off films	Magelis <i>i</i> PC 15"		MPC YK5 0SPS KIT	
		Magelis <i>i</i> PC 19"		MPC YK9 0SPS KIT	
Extra long cable (10 m) for cor Magelis BOX PC and Magelis I		Magelis <i>i</i> PC 15" only	/	HMI CAB DVI1011	

### Mounting

Magelis *i*Display flat screens can be mounted on a panel or enclosure door using the fixing parts (3 x 4 spring clips) supplied with each screen.

(1) Supplied with 3 m VGA cable (2) Supplied with 5 m DVI-D cable

# 4 - HMI software

# Configuration softwares

Selection guide page 4/	2
■ Vijeo Designer™ Lite	
Presentation page 4	⁄4
Uijeo Designer Lite configuration software page 4	7
■ Vijeo Designer™	
Presentation page 4	⁄8
□ Vijeo Designer configuration software Page 4/1	3

# Selection guide

Applications

4

# **HMI** software

Traditional architecture, HMI executed on PC platform or dedicated terminal

		Configuration software for operator dialogue applications
Compatible products	Туре	Magelis [™] XBT N/R/RT Small Panels <i>(1)</i>
	Maximum number of targets	1
	Operating system on terminals	Proprietary Magelis
		r ophotal y magono
Functions	Reading/writing of PLC variables	Yes
	Display of variables	Yes
	Data processing	-
	Sharing of variables between HMI applications	-
	Saving of variables to external database	-
Internationalization		-
Development of graphic Native library of graphic objects		Yes
applications	Curves and alarms	Yes (2)
	Scripts	-
Communication between HMI application and PLCs		Via I/O drivers: Schneider Electric or third party protocols (Mitsubishi, Omron, Rockwell Automation, Siemens) (3)
Uploading of applicatio	ns	Yes
Simulation of HMI appli	cations	Yes
Recipe management		-
Report and barcode prin	nting	-
Screen capture		_
Access security		Linked to user profiles
Interface languages		Screens, online help and documentation in electronic format available in 6 languages: English, French, German, Italian, Simplified Chinese and Spanish
OS compatibility		Windows XP Professional, Windows Vista Business (32-bit), Windows 2000 Professional
Software type		Vijeo Designer ™ Lite
Page		4/7
(1) All Magelis XBT and M (2) Depending on compati	agelis GTO terminals behave transparer	tly on restoration of power.

(2) Depending on comparise product.
(3) See protocols supported on page 4/6.
(4) See protocols supported on page 4/12.

More technical information on www.schneider-electric.com

Schneider Electric

### Traditional architecture, HMI executed on PC platform or dedicated terminal

### Configuration software for operator dialogue applications





Magelis[™] STO/STU Small Panels Magelis[™] XBT GT/GK/GH/GTW and Magelis[™] GTO Advanced Panels *(1)* Magelis[™]industrial PCs

### 32

Proprietary for Magelis STO/STU, Magelis XBT GT/GK/GH and Magelis GTO Windows XP embedded for Magelis GTW

Yes, up to 8000 internal and external variables

Yes

Yes, using expression editor or Java programming

Up to 300 variables between 8 terminals, without router PLC Proprietary protocol above TCP/IP

Yes, with the Intelligent Data Service extension

Up to 15 languages supported by 34 western alphabets, 4 Asian alphabets and 2 middle eastern alphabets embedded in the application

### Yes

Yes, with log

Java

Via I/O drivers: Schneider Electric or third party protocols (Mitsubishi, Omron, Rockwell Automation, Siemens) (4)

Yes

Yes

Yes, up to 32 groups, 1024 ingredients for 256 recipes per group, proprietary or CSV format, complete multilingual support for labels and ingredients

On the fly alarms, log data. Up to 9999 active alarms, record or logs Main barcode types supported: UPC-A, UPC-E, JAN/EAN8, JAN/EAN13, ITF, CODE39, CODE93, CODE128, CODABAR (NW-7)

Yes, for Magelis XBT GT (XBT GT 1105 and higher), Magelis GTO and Magelis industrial PCs. JPEG format

### Linked to user profiles

Screens, online help and documentation in electronic format available in 7 languages: English, French, German, Italian, Brazilian Portuguese, Simplified Chinese and Spanish

Windows XP Professional, Windows 7 Business (32-bit and 64-bit)

### Vijeo Designer [™]

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Presentation



### Presentation

Vijeo Designer[™] Lite configuration software allows you to create operator dialogue applications for Magelis[™] XBT N/R/RT Small Panels for controlling simple automation systems.

For operator dialogue terminals Magelis[™] STO/STU Small Panels and Magelis[™] GT/GTO/GK/GH/GTW Advanced Panels, refer to the Vijeo Designer configuration software on pages 4/8 to 4/10.

Vijeo Designer Lite has been designed with simplicity in mind and is inspired by the same user-friendly philosophy as Vijeo Designer. The primary aim of Vijeo Designer Lite is to show users who have not had any prior training how to create applications. It does this by adopting an intuitive approach to operation and providing advice in the form of wizards.

Vijeo Designer Lite is used to design page content in WYSIWYG (*What You See Is What You Get*) format: everything created using this software is displayed in exactly the same way as it appears on the dialogue terminal screen.

Since Vijeo Designer Lite is capable of simultaneously defining, within the same project, as many versions in different languages as the terminal's memory can support, users have the option of internationalizing their applications.

The interface and documentation for Vijeo Designer Lite are available in 6 languages: English, French, German, Italian, Simplified Chinese and Spanish.

Since applications created with Vijeo Designer Lite are independent of the communication protocol used, the same application can be used with the various PLCs offered by the major suppliers.

Vijeo Designer Lite works on compatible PCs with Windows 2000, XP or Vista operating software.

# Bit All and an analysis A.P. Bit All and analysis </tabular>

Example project

### Configuration

With Vijeo Designer Lite configuration software, operator dialogue applications can be developed quickly and easily using its very simple and user-friendly tools.

- The development environment has two main windows:
- Application browser: This is a logical guide to designing applications. All projectrelated information can be clearly displayed at any time.
- Dialogue view: This displays the contextual information for the selection made in the application browser. This information is arranged on a tab.

Vijeo Designer Lite applications have different types of pages:

- Application pages, which can be interlinked
- Alarm pages
- Preconfigured system pages

Pages can contain text or bitmaps, as well as all kinds of variables and graphic objects.

Applications can be configured without dialogue boxes. Instead of dialogue boxes, preconfigured lists of parameters are available to help users make their selections and avoid errors.

Vijeo Designer Lite comes with a toolset:

- Graphics editor
- Library of pictograms and symbols
- Editor for linking to PLC variables
- Simulator
- Application printing

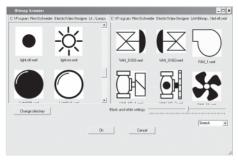
Selection guide:	References:
age 4/2	page 4/7

4/4

s

# Presentation (continued)

# **HMI software** Vijeo Designer[™] Lite configuration software



Symbols library

### **Graphics editor**

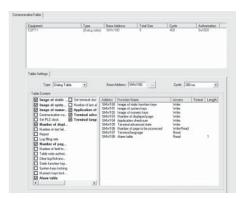
The graphics editor in Vijeo Designer Lite makes it easy for developers of operator dialogue applications to create pages based on objects:

- Point, line, rectangle, ellipse
- Text and image
- Graphic, trending curve, button, light
- Enumerated list and scrolling text

### Symbols library

The symbols library makes the process of creating pages more efficient. It contains pictograms which are easily recognizable within industrial contexts as well as drawings of the main components used in automation. With Vijeo Designer Lite, linking of these these graphic symbols to the function keys

of the terminal is instantaneous.



Communication table

### Links with PLC variables

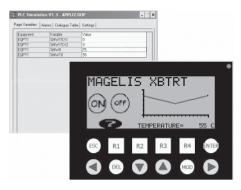
Vijeo Designer Lite also enables the user to easily link symbols with the internal variables of Schneider Electric PLCs by importing Twido Soft, PL7 and Concept automation database files.

### **Communication table**

The communication table in Vijeo Designer Lite provides the user with an easy way of configuring all data exchanged between the Magelis compact XBT terminal and the main device.

The communication table is also used to define:

- Access to data: read/write
- All the alarm conditions



Simulation

page 4/2

### Simulator

Vijeo Designer Lite makes it possible to simulate the entire operator dialogue application at design office level without using a Magelis compact terminal or a PLC. The simulator program can be used to thoroughly check the following application characteristics:

- Navigation between pages
- Entry of variable data
- Display of variables
- Display of alarms

### **Application printing**

You can print all or part of the HMI application using the Vijeo Designer Lite print function. It is possible to send the data to a printer or to print to file.

### Protocols for communication between the HMI application and the PLCs

Communication between the operator dialogue application and the connected control equipment is established using a communication protocol (driver), which is selected when creating the application in Vijeo Designer Lite.

### Schneider Electric protocols

Vijeo Designer Lite supports the following Schneider Electric protocols:

- Modbus RTU Master/Slave
- Unitelway
- Zelio Logic

### Third-party protocols

Vijeo Designer Lite supports the following third-party protocols:

- Mitsubishi:
- □ Melsec FX protocol (CPU)
- Omron:
- □ Sysmac protocols
- Rockwell Automation:
- □ Allen Bradley protocols: DF1-Full Duplex, RS DataHighway 485
- Siemens:
- □ Simatic PPI protocols

4/6



# HMI software Vijeo Designer[™] Lite configuration software



VJD SUD TMS V13M

### References

- Licences for the Vijeo Designer Lite configuration software listed below consist of a CD-ROM containing:
- Vijeo Designer Lite V1.3 software
- User documentation in electronic format
- The communication protocols described on page 4/6
- XBT L1001 development software for converting existing XBT applications

Single-station lice	ences				
Description	Licence	Application tr	ansfer cable	Reference	Weight
	type PC side port	PC side port	Magelis terminal side		kg
Vijeo Designer Lite configuration software	<i>Single</i> (1 station)	-	- (1)	VJD SND TMS V13M	0.125
		USB	Magelis XBT N/R/RT (2)	VJD SUD TMS V13M	0.675

(1) References for application transfer cables (PC to Magelis XBT N/R/RT terminal) are listed under "Connection to PCs and printers" on page 1/24. (2) USB cable for PC **TSX CUSB 485** connection and XBT adaptor for USB cable **XBT 2925** included (see page 1/24).

Presentation

# HMI software Vijeo Designer[™] configuration software



### Presentation

The cross-platform Vijeo Designer[™] configuration software can be used to create operator dialogue applications for controlling automation systems for:

- Magelis[™] STO and STU terminals (Vijeo Designer Limited Edition is sufficient)
- Magelis[™] GTO terminals
   Magelis[™] XBT GT and XBT GK terminals
- Magelis[™] XBT GH portable terminals
- Magelis[™] GTW open terminals
- Magelis[™] industrial PCs Panel PC and BOX PC

Note: For semi-graphic terminals Magelis XBT N/R/RT, please refer to the Vijeo Designer Lite development software. Magelis XBT G terminals are no longer supported.

Vijeo Designer and a suitable terminal can be combined to provide a solution for each and every control station requirement, at the cost of a simple software reconfiguration.

Capable of supporting video image streaming, the Magelis Vijeo Designer offer provides access to new types of application. Users can view their process instantly or subject to a delay, on the same screen as the HMI dialogue.

Vijeo Designer uses Magelis Ethernet TCP/IP connectivity and is, therefore, able to support WEB Gate remote access, the sharing of application data between terminals, the transfer of recipes and logs for variables, and much more.

Applications can take on an international nature, because Vijeo Designer supports up to 15 languages simultaneously in one project (40 alphabets are available on the Magelis GT/GTO/GK terminal). The interface and documentation for Vijeo Designer are available in 7 languages: English, French, German, Italian, Brazilian Portuguese, Simplified Chinese and Spanish.

Vijeo Designer is the HMI component of SoMachine. Vijeo Designer will run on any PC with Windows XP Professional or Windows 7. It supports WYSIWYG simulation (1) of the developed application (without the target Magelis GT/GTO/GK/GTW terminal or Magelis iPC), simulation of the PLC variables (I/O, internal bits and words) and ensures that the application runs in total security on the Magelis GT/GTO/GK/GTW terminal or Magelis industrial PC.

### Configuration

Vijeo Designer configuration software enables operator dialogue projects to be processed quickly and easily thanks to its advanced ergonomics using up to 5 configurable windows:

- 1 Browser window
- 2 Object List window
- Recipes window 3
- 4 Library of Animated Graphic Objects and Image Objects window
- 5 Report window

The software also offers a complete set of application management tools for: Project creation, whereby a project comprises one or a number of applications for Magelis GT/GTO/GK/GTW, Panel PC and PC BOX with sharing of variables between terminals (up to 8 terminals and 300 variables)

- Recipe management (32 groups of 256 recipes with up to 1024 ingredients)
- Cross-referencing of application variables
- Documentation of views for an application
- A full simulation mode for testing the application from the design office
- Bar code reader management via:
- USB port on multifunction XBT GT terminals, Magelis GT/GTO/GK/GTW keypad terminals and Magelis industrial PCs
- □ COM1 or COM2 serial port on Magelis GT/GK/GTW (2)
- USB keyboard and mouse support for all terminals incorporating a USB port
- (only one peripheral can be connected at any one time)
- Retrieval of symbol files for PLC variables generated by TwidoSuite, PL7, Concept, ProWORX 32 and Unity Pro software (3)
- Report printing
- Barcode printing

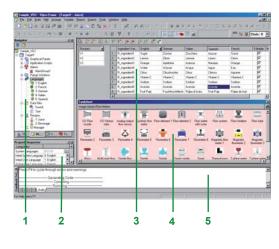
(1) What You See Is What You Get (on the screen of the target terminal).

(2) Except XBT GT11 terminals.

(3) DDT structured types and "unlocated" variables are supported.



Example project



# Presentation (continued)

## **HMI software** Vijeo Designer[™] configuration software



Graphic toolbar

### **Graphics editor**

The graphics editor in Vijeo Designer offers interface consistency for simple objects as well as for more sophisticated ones. It enables application developers to create views easily based on:

- Simple objects to be configured:
- points, lines, rectangles, ellipses, arcs
- □ bar graphs, meters, tanks, fillers, pie charts, curves
- D polylines, polygons, regular polygons, Bézier curves, scales
- □ texts, images or alarm summary, etc.

Preconfigured advanced objects: switches, radio buttons, indicators, buttons, tanks, bar graphs, potentiometers, selector switches, text or number fields, enumerated lists, etc.

Screen masks and skeletons for type applications



Object animation example

### **Object animations**

8 types of graphic-object animation support the rapid creation of animated mimics on the basis of:

- Pressing the touch panel
- Change of color
- Filling
- Movement
- Rotation
- Size
- Visibility
- Display of associated value

Library of animated graphic objects

### Library of animated graphic objects

The library of animated graphic objects makes the creation of mimics very efficient thanks to the numerous "ready-made" animation objects. It includes more than 4000 2-D and 3-D "industrial" vector images. Simply "drag and drop" the object using the mouse to position it on the mimic being created.

User-defined objects can be added to this library using the same simple "drag and drop" method.

### Java scripts

Vijeo Designer supports data processing using Java language scripts. This function facilitates the running of complex animations, the automation of tasks within the terminal and the management of calculations in order to relieve the load on the PLC programs.

The scripts (50 lines, max.) can be associated with:

**User-customizable resources** 

- Variables
- Operator actions
- Screens
- The application itself

//	
//Script Created: 10 09, 2001	
17	
// Description:	
0	
//	
// Replace this line with your acript int pos;	
f (movebottles.getIntValue() = 0) // If conveyor is OFF, do not move bottles	
pos = BottlePos.getIntVslue(); if (pos >= 1000)	
pos = 0; // If bottle position has been the out of display area, reset position. pos = pos + 10 + 2 * ConveyorSpeed.getIntValue0;	
BottlePos.write(pos);	
}	
	ļ

### Java script example

To enable applications to be customized in accordance with customer requirements, Vijeo Designer features a new resource concept that makes it possible to define styles (colours, images, character fonts, text lists). To quickly customize a generic application to meet customer requirements, simply

assign these styles to the objects concerned. The resource concept is supported by the following native objects: Meter, Bar Graph,

Slider, Potentiometer, Selector, Text List and Image List.

Selection guide:	References:	
page 4/2	page 4/13	

# Presentation (continued)

# HMI software Vijeo Designer[™] configuration software



Data Manager: Transfer recipes, videos, images, etc. via Ethernet or USB, by simply clicking the mouse

### **Advanced functions**

Based on new information technologies, Vijeo Designer features a large number of advanced functions for processing a higher volume of data, both faster and more reliably:

- Multimedia data management in the most popular formats:
- □ image display (jpeg, bmp, emf and png files)
- □ text display and processing (txt files)
- □ sound message processing (wav files)
- Alarm or curve logs recorded
   Zeam in/out function on transition
- Zoom in/out function on trending curves for a detailed analysis

■ Alarm management. All variables can be categorized as "Alarms" and can be customized in respect of visualization and acknowledgment. These Boolean and analogue threshold type alarms can be printed on the fly.

■ Multimode application transfer: via serial link, USB, Ethernet and Compact Flash memory card (on multifunction terminals)

- Backup of application source files on the terminal or *i*PC to facilitate maintenance
- User-friendly data exchange between PC and terminal using the Data Manager tool

■ Integrated FTP server for downloading/uploading recipes via Ethernet TCP/IP and restoring logs to Magelis GT/GTO/GK/GTW and Magelis *i*PC

 Multiport communication for multifunction terminals, 2 serial links and 1 Ethernet network can be active simultaneously

- Action table for associating a particular behavior with an event
- Use of a USB memory stick (up to 4 GB) for application downloads/uploads, data retrieval or recipe exchange
- E-mail on action and event (the e-mail text can contain up to 1000 characters)

### WEB Gate remote connection

Vijeo Designer supports a WEB Gate remote connection with any platform which has an Ethernet connection point.

WEB Gate supports remote visualization of Vijeo Designer applications with Internet Explorer on any PC running Windows XP or Windows 7. The size of the page displayed is determined by the terminal.

WEB Gate supports the display of pages similar to those in the Vijeo Designer application, or of different pages, i.e. startup pages and navigation pages can be differentiated in order to indicate the type of access (terminal/WEB Gate). Several connections are possible at the same time, with the number depending on the size of the application.

The high security mode of WEB Gate excludes any risk of applications jamming as a result of variables being modified via the terminal and WEB Gate at the same time. For increased confidentiality:

■ WEB Gate access can be restricted to only those PCs whose IP address appears in the licensing list.

- Some Vijeo Designer functions are not supported by WEB Gate:
- □ application shutdown, restart
- □ terminal configuration
- □ reading of an acoustic animation (sound file)
- □ display a recorded video sequence

### WEB Maintenance remote diagnostics

In addition to WEB Gate, Vijeo Designer features the embedded diagnostics service WEB Maintenance - Transparent Ready WEB Server Class B15 (1). This server's navigation bar features an option for accessing the following functions:

- WEB Gate
- Animation tables
- Web interface for retrieving data files (recipes, logs, multimedia files)

**Note:** Terminals programmed using Vijeo Designer can be accessed directly via their names. This function is supported by the DHCP and DNS network services.

(1) Please consult our website www.schneider-electric.com



Alarm management



Report printing

Selection guide:

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References: page 4/13

> Schneider Gelectric

# HMI software Vijeo Designer[™] configuration software

### Integrated diagnostics

Vijeo Designer can be used to access the "Diag buffer" function of Modicon M340/ Premium/Quantum PLCs via the following protocols:

	Modicon M340	Premium	Premium	Quantum
	Unity Pro	PL7	Unity Pro	Unity Pro
UNITE-Series				
UNITE-TCP/IP XWAY				
UMAS Modbus TCP				
UMAS Modbus RTU				
UMAS Modbus Plus				
UMAS UNITE-Series				
UMAS UNITE-TCP/IP XWAY				
UMAS Modbus TCP USB PPP				
				•

Accessible Not accessible

### Intelligent Data Service option

Intelligent Data Service (IDS) is an extension of Vijeo Designer for the target PC (Magelis or standard PC) which supports the implementation of control solutions for one or a number of terminals (up to 8).

This extension offers full process traceability. Both process variables and operator actions are tracked so that the right decisions can be made at the right time *(Industrial Business Intelligence).* 

### Powerful

The IDS extension enables data to be collected from multiple terminals via Ethernet without impairing HMI reaction times.

### Flexible

The IDS extension supports various storage methods; CSV files can be read directly in MS Excel, saving as free format in an SQL database or secure IDV (*Intelligent Data Vault*) files to ensure compatibility with the requirements of 21 CFR Part 11.

### Innovative

In just a few clicks of the mouse, the IDS extension allows you to create dashboards that can be accessed from any WEB browser (Silverlight) as well as clear and well organized reporting documents.

### Intelligent Data Service Report Printing option

Intelligent Data Service (IDS) Report Printing is an extension of Intelligent Data Service for the PC (Magelis or Standard PC). This extension allows you to create new reports "from scratch" and link them to IDS data.

In addition to editing functions, IDS Report Printing allows you to preview the report before printing, print it or save it to file on disk.

### Communication protocols between the HMI application and the PLCs

Communication between the operator dialogue application and the connected control equipment is established using a communication protocol (driver), which is selected when creating the application in Vijeo Designer.

### **Schneider Electric protocols**

Vijeo Designer supports the following Schneider Electric protocols:

- Modbus RTU Master
- Modbus TCP/IP Master
- Modbus Plus (1)
- Modbus 32-bit extensions
- ELAU PacDrive (ELAU C00x/LMCx00)
- Unitelway
- UniTE TCP/IP
- USB terminal port for Modicon M340 CPUs
- FIPIO (2), FIPWAY (2)

All Schneider Electric drivers provide IEC access to input bits/words and output bits/words: Modbus (RTU and TCP/IP), Modbus Plus (GMU and USB), Uni-Telway, Xway,

Direct I/O access authorizes access to the hardware input and output registers.

Register addresses comply with the syntax of IEC standards and the address rules for UNITY configuration software (%I, %IW, %Q, %QW). If requested by the user, the variables associated with a PLC can be read ("on demand scan" function).

The DDT and unlocated variables of Unity Pro are supported.

### Third-party protocols

Vijeo Designer supports the following third-party protocols:

### Emerson

ROC Plus (SIO) and ROC Plus TCP/IP protocols.

### Mitsubishi

Melsec protocols: A/Q CPU (SIO), A/Q Ethernet (TCP), QnU Ethernet (TCP), A/Q Link (SIO), QnA CPU (SIO), Q Ethernet (UDP), QnU Ethernet (UDP), FX (CPU), QUTE for Q00JCPU. Except for Melsec-A Link (SIO) protocol, Mitsubishi serial link protocols do not work on the RJ45 port (1).

### Omron

Sysmac protocols: FINS (SIO), LINK (SIO), FINS (Ethernet) and Trajexia. OMRON serial link protocols do not work on the RJ45 port (3).

### **Rockwell Automation**

Allen-Bradley protocols: DF1-Full Duplex, RS DataHighway 485, Ethernet IP (4) (PLC5, SLC500, MicroLogix, ControlLogix), Ethernet IP native (3) (ControlLogix), Ethernet IP High Speed access, DeviceNet Slave (6), Ethernet IP Explicit.

### Siemens

Simatic protocols: MPI (S7-300/400), MPI Direct, RK512/3964R (S7-300/400), PPI, Siemens Ethernet (ISO-on-TCP/Profinet), MPI pass-through function.

The S7-300/400 MPI Adapter and RK512/3964R - RS485 connection serial link protocols do not work on the RJ45 port (3).

Profibus DP protocol (5).

### Toyoda

Toyopuc Ethernet PC3J (TCP/IP) and Toyopuc Link (SIO) protocols.

### Migration of XBTL 1000 applications

The Switch2VijeoDesigner service offer makes it even easier to migrate XBTL 1000 applications created on XBT F terminals to Vijeo Designer applications for use on XBT GT/GK terminals. For further information on this service offer, please consult your Customer Care Centre.

(1) Via USB Modbus Plus gateways: XBT ZGUMP for Magelis XBT GT 2000 and higher, TSX CUSBMBP for Smart and Compact iPC (see page 1/70).
(2) Via USB FIPIO gateway TSX CUSB FIP (see page 1/70).
(3) They are supported on XBT GT (SUB-D connector, XBT GT2 and higher).

- (4) Certified ODVA compatibility.

(5) Via Profibus DP Bus expansion card XBT ZGPDP (see page 1/70). Certified by Profibus Foundation. (6) Via Device Net Bus expansion card XBT ZGDVN (see page 1/70).

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Selection guide:

References

# **HMI** software Vijeo Designer[™] configuration software



### References

- All licences for the Vijeo Designer configuration software listed below consist of a DVD containing:
- Vijeo Designer software, including:
- Copyright-free stand-alone installation of Data Manager
- User documentation in electronic format, including:
- Online help for the software
- User Manual for the supported targets
- п Setup Manual for the different protocols supported
- A multimedia self-learning tool lasting 1 hour 30 minutes in English/French
- The supported communication protocols .

Note: Magelis STO/STU terminals can be programmed using Vijeo Designer Limited Edition. Vijeo Designer V6.1 supports applications created with any version of Vijeo Designer ≥ V4.6.

If you are updating an earlier application, please consult your Schneider Electric Customer Care Centre.

Single-station B	uild Time licen	ices			
Description	Licence	Appl	ication transfer cable	Reference	Weight
	type	PC side port	Magelis terminal side		kg
Vijeo Designer configuration	Single (1 station)	-	- (1)	VJD SND TGS V61M	0.125
software		USB	Magelis STO/STU Magelis GT/GTO/GK/GH/GTW Magelis industrial PCs (2)	VJD SUD TGA V61M /	0.330

Multi-station Bu	ild Time licen	ces		
Description	Licence type	Number of stations	Reference	Weight
Vijeo Designer configuration	Group	3	VJD GND TGS V61M	0.125
software	Team	10	VJD TND TGS V61M	0.125
	Facility	Unlimited number of stations on one site	VJD FND TGS V61M	0.125

<b>Run Time licences</b>	(3)			
Description	Licence type	Number of stations	Reference	Weight
Vijeo Designer Run Time licence for Magelis GTW & <i>i</i> PC	Single	1	VJDSNRTMPC	-
Intelligent Data Service licence extension for Vijeo Designer Run Time	Single	1	VJDSNTRCKV61M	_
Intelligent Data Service Report Printing for IDS	Single	1	VJDSNTRPRV61M	-
Vijeo Designer Run Time IDS Report Print pack (4)	Single	1	VJDSNTRPKV61M	_

(1) References for application transfer cables (PC to Magelis GT/GTO/GK/GH/GTW terminal) are listed under "Application transfer cables - terminal to PC" on page 1/65.

(2) USB cable for PC connection included, for Magelis XBT 2000 and higher: XBT ZG935 (see page 1/65). (3) The Run Time licence drives the execution of an application. It is only used for Magelis industrial PCs and

Magelis GTW terminals.

(4) Pack of 3 licences: Vijeo Designer Run Time licence for Magelis iPC, Intelligent Data Service licence extension and Intelligent Data Service Report Printing licence extension.

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# 5 - Services

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# **Technical appendices** Automation product certifications

EC regulations

Some countries require certain electrical components to undergo certification by law. This certification takes the form of a certificate of conformity to the relevant standards and is issued by the official body in question. Where applicable, certified devices must be labelled accordingly. Use of electrical equipment on board merchant vessels generally implies that it has gained prior approval (i.e. certification) by certain shipping classification societies.

Abbreviation	Certification body	Country
CSA	Canadian Standards Association	Canada
C-Tick	Australian Communications and Media Authority	Australia, New Zealand
GOST	Scientific research institute for GOST standards	Russia
UL	Underwriters Laboratories	USA
Abbreviation	Classification authority	Country
IACS	International Association of Classification Societies	International
ABS	American Bureau of Shipping	USA
BV	Bureau Veritas	France
DNV	Det Norske Veritas	Norway
GL	Germanischer Lloyd	Germany
LR	Lloyd's Register	UK
RINA	Registro Italiano Navale	Italy
RMRS	Russian Maritime Register of Shipping	Russia
RRR	Russian River Register	Russia
CCS	China Classification Society	China

The tables below provide an overview of the situation as at 1st October 2012 in terms of which certifications (listed next to their respective bodies) have been granted or are pending for our automation products.

Up-to-date information on which certifications have been obtained by products bearing the Schneider Electric brand can be viewed on our website: <u>www.schneider-electric.com</u>

	Certifica	tions							
Certified Certification pending		()	C-Tick	(C)	Hazardous locations (1) Class I, div 2	IEC Ex Ex	TUNTRestant	SIMTARS	AS- Interface
	UL	CSA	ACMA	GOST		(6)	TÜV Rheinland		
	USA	Canada	Australia	Russia	USA, Canada			Australia	Europe
Modicon OTB									
Modicon STB					FM	Zone 2 (2)(5)			
Modicon Telefast ABE 7									
ConneXium					(2)				
Magelis <i>i</i> PC/GTW		(3)		(2)	(3)	Zone 2/22 (2)			
Magelis XBT GT		(3)		(2)	(2) (3)	Zone 2/22 (2)(5)			
Magelis XBT GK		(3)			(3)				
Magelis XBT N/R/RT					CSA	Zone 2/22 (2)(5)			
Magelis HMI GTO		(3)		(2)	(3)	(2)			
Magelis HMI STO/STU		(3)		(2)	(2)(3)	(2)			
Modicon M340					CSA	Zone 2/22 (2)(8)			(2)
Modicon Momentum									
Modicon Premium				(2)	CSA			(2)	(2)
Modicon Quantum				(2)	FM (2)	Zone 2/22 (2)			
Modicon Quantum Safety				(2)	CSA	Zone 2/22 (2)	SIL 2, SIL 3 (7)		
Preventa XPSMF							SIL 3 (7)		
Modicon TSX Micro									(2)
Phaseo	(3)								
Twido	(4)	(4)			CSA/UL (4)				(2)

(1) Hazardous locations: According to UL 1604, ANSI/ISA 12.12.01, CSA 22.2 No. 213 and FM 3611, certified products are only approved for use in hazardou locations categorized as Class I, division 2, groups A, B, C and D, or in non-classified locations.

(2) Depends on product; please visit our website: www.schneider-electric.com.

(3) North American certification cULus (Canada and USA).

(4) Except for AS-Interface module TWD NOI 10M3, C€ only.

(5) For zones not covered by this specification, Schneider Electric offers a solution as part of the CAPP (Collaborative Automation Partner Program). Please consult our Customer Care Centre.

(6) Refer to the instructions supplied with each ATEX and/or IECEx certified product.

(7) According to IEC 61508. Certified by TÜV Rheinland for integration into a safety function of up to SIL 2 or SIL 3.

(8) Can be used in gassy mines under certain conditions.

# Technical appendices

Automation product certifications EC regulations

	Shipping	Shipping classification societies									
Certified Certification pending	ABS		۲		Korean Register of Shipping	Lloyds Register	æ	۲		٢	CCS
	ABS	BV	DNV	GL	KRS	LR	RINA	RMRS	RRR	PRS	CCS
	USA	France	Norway	Germany	Korea	Great Britain	Italy	Russia	Russia	Poland	China
Modicon OTB											
Modicon STB	(1)(2)	(2)	(2)	(2)		(2)	(2)	(2)	(2)		
Modicon Telefast ABE 7											
ConneXium											
Magelis <i>i</i> PC/GTW				Bridge (2)							
Magelis XBT GT	(2)	(2)	(2)	(2)		(2)	(2)	(2)	(2)		
Magelis XBT GK											
Magelis XBT N/R											
Magelis XBT RT											
Magelis HMI GTO											
Magelis HMI STO/STU		(2)	(2)								
Modicon M340								(2)	(2)		
Modicon Momentum											
Modicon Premium											
Modicon Quantum											
Modicon TSX Micro											
Phaseo											
Twido											

(1) Also covers US Navy requirements ABS-NRV part 4.

(2) Depends on product; please visit our website: www.schneider-electric.com.

### **EC regulations**

### **European Directives**

The open nature of the European markets assumes harmonization between the regulations set by the member states of the European Union. European Directives are texts whose aim is to remove restrictions on free circulation of goods and which must be applied within all European Union states.

Member states are obligated to incorporate each Directive into their national legislation, and to simultaneously withdraw any regulations that contradict it.

Directives - and particularly those of a technical nature with which we are concerned - merely set out the objectives to be fulfilled (referred to as "essential requirements"). Manufacturers must take all necessary measures to ensure that their products conform to the requirements of each Directive applicable to their equipment.

As a general rule, manufacturers certify compliance with the essential requirements of the Directive(s) that apply to their products by applying a CE mark. The CE mark is affixed to our products where applicable.

### Significance of the CE mark

The CC mark on a product indicates the manufacturer's certification that the product conforms to the relevant European Directives; this is a prerequisite for placing a product which is subject to the requirements of one or more Directives on the market and allowing its free circulation within European Union countries. The CC mark is intended for use by those responsible for regulating national markets. Where electrical equipment is concerned, conformity to standards indicates that the product is fit for use. Only a warranty by a well-known manufacturer can provide assurance of a high level of quality.

As far as our products are concerned, one or more Directives are likely to apply in each case; in particular:

- The Low Voltage Directive (2006/95/EC)
- The Electromagnetic Compatibility Directive (2004/108/EC)
- The ATEX C€ Directive (94/9/EC)

### Dangerous substances

These products are compatible with:

- The WEEE Directive (2002/96/EC)
- The RoHS Directive (2002/95/EC)
- The China RoHS Directive (Standard SJ/T 11363-2006)
- The REACH regulations Directive (EC 1907/2006)

Note: Documentation on sustainable development is available on our website www.schneider-electric.com (product environmental profiles and instructions for use, ROHS and REACH directives).

### End of life (WEEE)

End of life products containing electronic cards must be dealt with by specific treatment processes.

When products containing backup batteries are unusable or at end of life they must be collected and treated separately. Batteries do not contain a percentage by weight of heavy metals above the limit specified by European Directive 2006/66/EC.

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