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Find the *Schneider Electric Magelis XBTGT2220* at our website: *Click HERE*

Human/Machine Interface

Magelis™ XBTGT Advanced Touch panels

Catalog

January 2015



Schneider Electric

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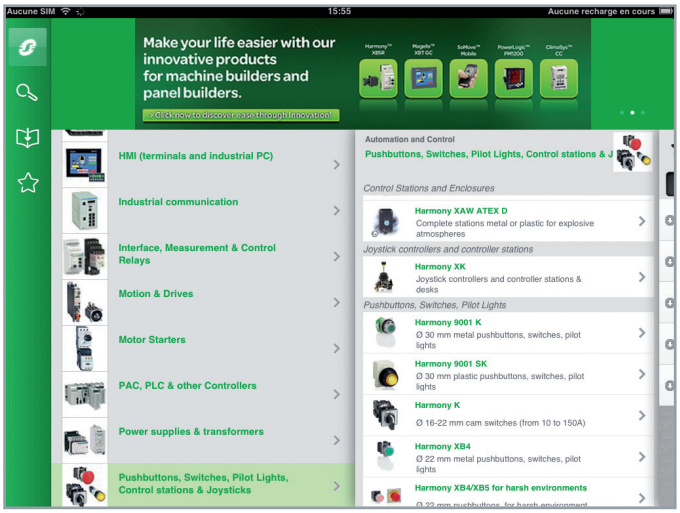
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Operator dialogue terminals
Advanced touch panels
Magelis™ GT

Applications		**Display of text messages, graphic objects and synoptic views Control and configuration of data**		**Display of text messages, graphic objects and synoptic views Control and configuration of data**		
Type of terminal		**Touch screen Advanced panels**		**Touch screen Advanced panels**		
						
Display	Type	Backlit color STN LCD or backlit color TFT LCD (320 x 240 pixels) or (640 x 480 pixels) *(3)*	Backlit color TFT LCD (640 x 480 pixels)	Backlit color TFT LCD (640 x 480 pixels or 800 x 600 pixels) *(4)*	Backlit color TFT LCD (800 x 600 pixels)	Backlit color TFT LCD (1024 x 768 pixels)
	Capacity	5.7" (color)	7.5" (color)	10.4" (color)	12.1" (color)	15" (color)
Data entry		Via touch screen		Via touch screen		
	Static function keys	–		–		
	Dynamic function keys	–		–		
	Service keys	–		–		
	Alphanumeric keys	–		–		
Memory capacity	Applications	16 MB Flash EPROM *(3)*	32 MB Flash EPROM	32 MB Flash EPROM		
	Expansion	By means of 128 MB, 256 MB, 512 MB, 1 GB or 2 GB CF card (except XBT GT2110)		By means of 128 MB, 256 MB, 512 MB, 1 GB or 2 GB CF card		
Functions	Maximum number of pages	Limited by capacity of internal Flash EPROM memory or CF card memory		Limited by capacity of internal Flash EPROM memory or CF card memory		
	Variables per page	Unlimited (8000 variables max.)		Unlimited (8000 variables max.)		
	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, LED		Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, LED		
	Recipes	32 groups of 64 recipes comprising 1024 ingredients max.		32 groups of 64 recipes comprising 1024 ingredients max.		
	Curves	Yes, with log		Yes, with log		
	Alarm logs	Yes		Yes		
	Real-time clock	Built-in		Built-in		
	Discrete I/O	–	1 input (reset) and 3 outputs (alarm, buzzer, run)	1 input (reset) and 3 outputs (alarm, buzzer, run)		
	Multimedia I/O	*(3)*	1 audio input (microphone), 1 composite video input (digital or analog video camera), 1 audio output (loudspeaker) *(1)*	1 audio input (microphone), 1 composite video input (digital or analog video camera), 1 audio output (loudspeaker) *(1)*		
Communication	Downloadable protocols	Uni-TE *(2)*, Modbus, Modbus TCP/IP *(1)* and for PLC brands: Mitsubishi, Omron, 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/RS 422/485 (COM1) and RS 485 (COM2)		RS 232C/RS 422/485 (COM1) and RS 485 (COM2)		
	USB ports	1 *(3)*	1	*2*		
	Bus and networks	Modbus Plus and Fipway with USB gateway, PROFIBUS DP and Device Net with optional card		Modbus Plus with USB gateway		
		Ethernet TCP/IP (10BASE-T/100BASE-TX) *(1)*		Ethernet TCP/IP (10BASE-T/100BASE-TX)		
	Printer link	RS 232C (COM1) serial link, USB port for parallel printer		RS 232C (COM1) serial link, USB port for parallel printer		
Development software		Vijeo Designer (on Windows XP Professional and Windows 7 Professional 32/64-bit)		Vijeo Designer (on Windows XP Professional and Windows 7 Professional 32/64-bit)		
Operating system		Magelis (133 MHz RISC CPU) *(3)*	Magelis (266 MHz RIS CPU)	Magelis (266 MHz RIS CPU)		
Type of terminal		**XBTGT22/23/24/29**	**XBTGT43**	**XBTGT53/54**	**XBTGT63**	**XBTGT73**
Pages		13		13		

(1) Depending on model.
(2) Uni-TE version V2 for Twido controller and TSX Micro/Premium platform.
*(3) For **XBTGT2430**, 32 MB Flash EPROM, 1 sound output, 2 USB ports, 266 MHz RISC CPU.*
*(4) For **XBTGT5430**.*

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Operator dialogue terminals
Advanced touch panels
Magelis GK, GH and GTW

Applications		**Display of text messages, graphic objects and synoptic views Control and configuration of data**	
Type of terminal		**Standard Advanced panels with keypad**	
			
Display	Type	Color TFT LCD (320 x 240 pixels) or monochrome STN	Color TFT LCD (640 x 480 pixels)
	Capacity	5.7" (monochrome or color)	10.4" (color)
Data entry		Via keypad and/or touch screen (configurable) 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
	Expansion	By means of 128 MB, 256 MB, 512 MB, 1 GB or 2 GB CF card	
Functions	Maximum number of pages	Limited by capacity of internal Flash EPROM 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 ingredients 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)* and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens	
	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, PROFIBUS DP and Device Net with optional card	
		Ethernet TCP/IP (10BASE-T/100BASE-TX)	
	Printer link	RS 232C (COM1) serial link, USB port for parallel printer	
Development software		Vijeo Designer (on Windows XP Professional and Windows 7 Professional 32/64-bit)	
Operating system		Magelis (CPU 266 MHz RISC)	
Type of terminal		**XBTGK21/23**	**XBTGK53**
Page		Please refer to our website www.schneider-electric.com.	

(1) Depending on model.
(2) Uni-TE version V2 for Twido controller and TSX Micro/Premium platform.

Display of text messages, graphic objects and synoptic views Control and configuration of data					
Portable Standard Advanced panels		**Open touch screen Standard Advanced panels**			
					
Color TFT LCD (640 x 480 pixels)		Color TFT LCD (800 x 600 pixels)	Color TFT LCD (800 x 600 pixels)	Color TFT LCD (1024 x 768 pixels)	
5.7" (color)		10.4" (color)	12" (color)	15" (color)	
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)*					
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					
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			
RS 232C/RS 422-485 (COM1)		RS 232C (COM1)	RS 232C (COM1)	RS 232C (COM1)	
1		2+1 frontal	4+1 frontal	2+1 frontal	
–		Modbus Plus with USB gateway			
1 Ethernet port (10BASE-T/100BASE-TX)		2 Ethernet ports *(4)* (10BASE-T/100BASE-TX/1 GB)			
–		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 RISC CPU)		Windows XP Embedded			
XBTGH2460/ XBTGH2460B *(5)*		**XBTGTW5354**	**XBTGTW652**	**HMIGTW7354 HMIGTW73545 *(6)***	
Please refer to our website www.schneider-electric.com.					

(1) Depending on model.
(2) Uni-TE version V2 for Twido controller and TSX Micro/Premium platform.
*(3) Except for **HMIGTW●●●●** with 4 GB SD memory card.*
*(4) Except on **XBTGTW652** 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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Operator dialogue terminals
Advanced Touch panels
Magelis XBTGT



Presentation

The Magelis Advanced panels with touch screen terminals consist of:
■ A range of 20 touch screen terminals (XBTGT) available with a wide choice of screen sizes (5.7", 7.5", 10.4", 12.1" and 15") in various versions (color, STN or TFT)
■ An XBTGT 5.7" terminal (**XBTGT2930**) 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.

Operation

The Magelis Advanced panels are multifunction level terminals.. These multifunction 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 analog camera)
■ Management of peripherals: Printers, bar code readers, loudspeakers, etc.



Configuration

Magelis 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. For more information on Vijeo Designer, please refer to our website www.schneider-electric.com.

Description: page 9 | References: page 13 | Accessories: page 17 | Connections: page 23

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Operator dialogue terminals
Advanced Touch panels
Magelis XBTGT

Functions

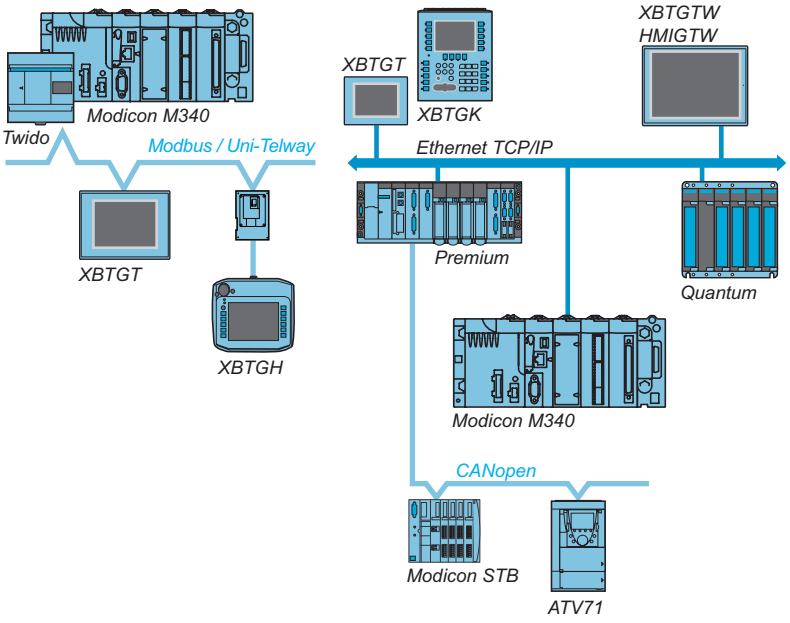
Magelis Advanced panels offer the following functions:
- Display of animated mimics with 8 types of animation (pressing the touch panel, color changes, filling, movement, rotation, size, visibility and value display)
- Control and modification of numeric or alphanumeric variables
- Display of current 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 or USB key
- Serial printer and bar code reader management
- Sound messages management
- Composite video signal management from camera or camcorder on XBTGT 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)

Communication



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).

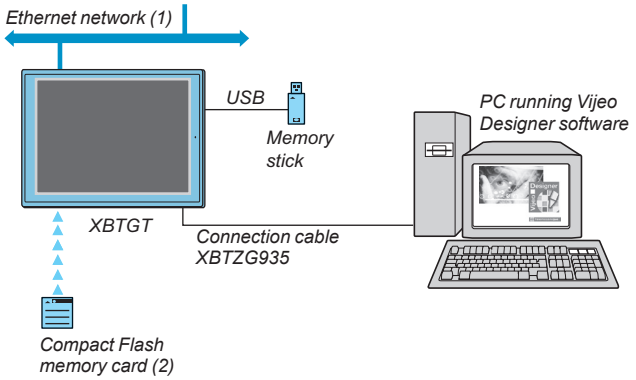
Description: page 9 | References: page 13 | Accessories: page 17 | Connections: page 23

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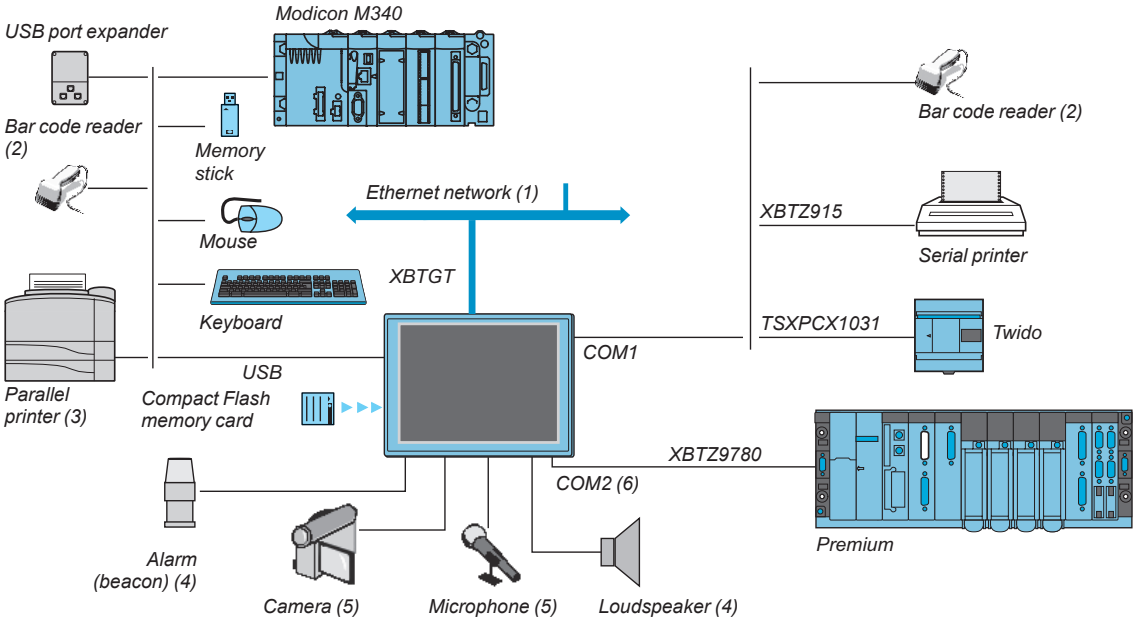
Panel operating modes

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 **XBTGT●●30/XBTGT●●40/XBTGK●●30/XBTGTW●●●/HMIGTW●●●●** and **XBTGH246●●**.*
(2) Validated with DataLogic Gryphon bar code reader.
(3) Validated with Hewlett Packard printer via USB/PIO converter.
(4) With XBTGT/GK/GTW 7.5" screen min. and HMIGTW.
*(5) With multimedia XBTGT 7.5" to 15": **XBTGT●340**.*
(6) With XBTGT and XBTGK 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).

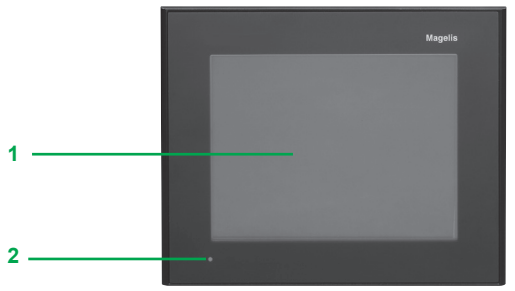
For further information on this service offer, please contact our Customer Care Centre.

Description: page 9 | References: page 13 | Accessories: page 17 | Connections: page 23

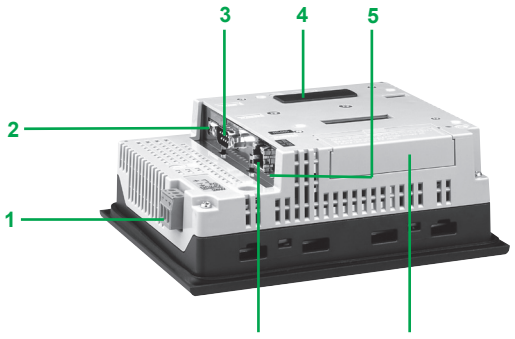
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Operator dialogue terminals
Advanced Touch panels
Magelis XBTGT

Description
Magelis Multifunction XBTGT2●20 & XBTGT2●30



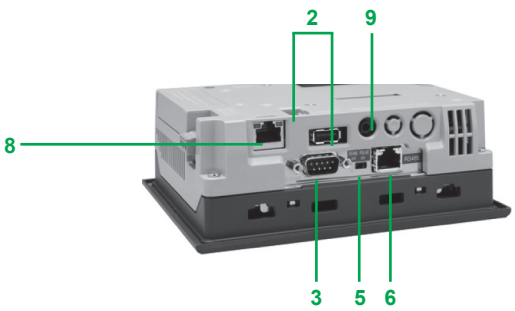
The front panel comprises:
1 Touch screen for displaying synoptic views (5.7" color)
2 Multicolor indicator (green, orange and red) showing the terminal's operating mode



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

On XBTGT2330 and GT2930 only:
8 RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX

On XBTGT2430 only:
8 RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX
9 Mini-jack connector for audio output



(1) See page 24 for details of the required connection accessories.

Presentation: page 6 | References: page 13 | Accessories: page 17 | Connections: page 23

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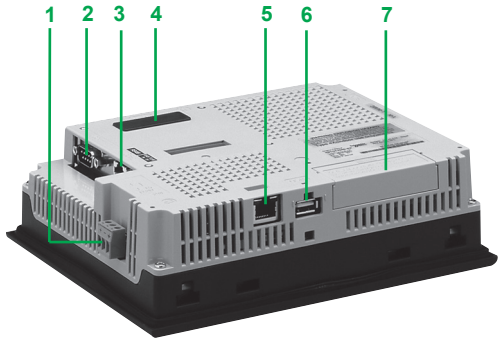
Operator dialogue terminals
Advanced Touch panels
Magelis XBTGT with 7.5" screen

Description
Magelis Multifunction XBTGT43●0



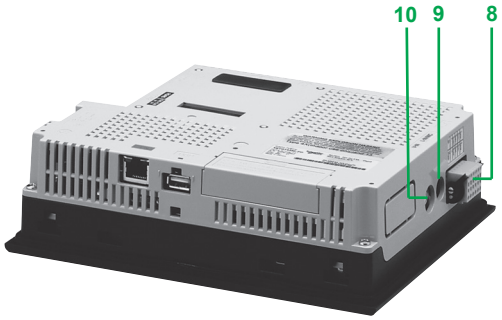
The front panel comprises:

1 Touch screen for displaying synoptic views (7.5" color TFT, depending on model)
2 Multicolor indicator (green, orange and red) showing the terminal's operating mode



The rear panel comprises:

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



On XBTGT4340 only:

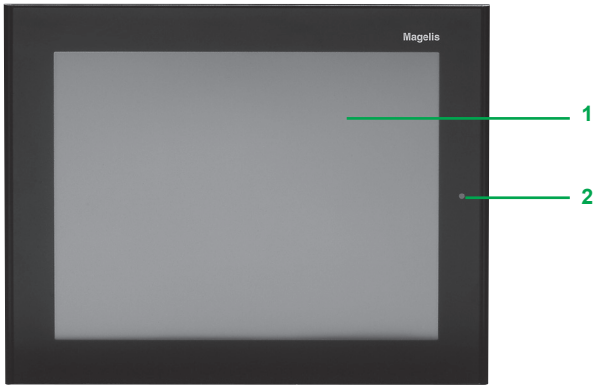
9 Mini-jack connector for connecting a microphone
10 RCA connector for connecting a digital or analog video camera (NTSC/PAL)

(1) See page 24 for details of the required connection accessories.

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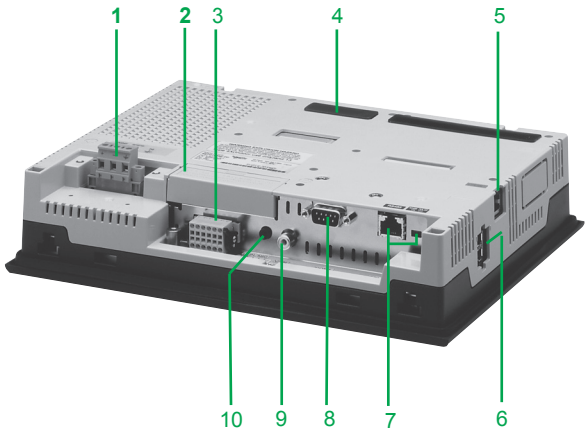
Description

Magelis Multifunction XBTGT53●0 and XBTGT5430



The front panel comprises:

1 Touch screen for displaying synoptic views (10.4" color TFT, depending on model)
2 Multicolor indicator (green, orange and red) showing the terminal's operating mode



The rear panel comprises:

1 Removable screw terminal block for 24 V ⎓ power supply
2 Slot for Compact Flash memory card, with hinged cover
3 Removable I/O connector, 12 spring terminals for loudspeaker connection, 1 input (reset) and 3 outputs (alarm, buzzer, run)
4 Expansion unit interface for fieldbus communication card (Device Net, PROFIBUS DP) *(1)*
5 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 RJ45 connector for RS 485 (COM2) with switch for polarization of the link used on Modbus
8 9-way male SUB-D connector for RS 232C or RS 422/485 serial link to PLCs (COM1)

On XBTGT5340 only:

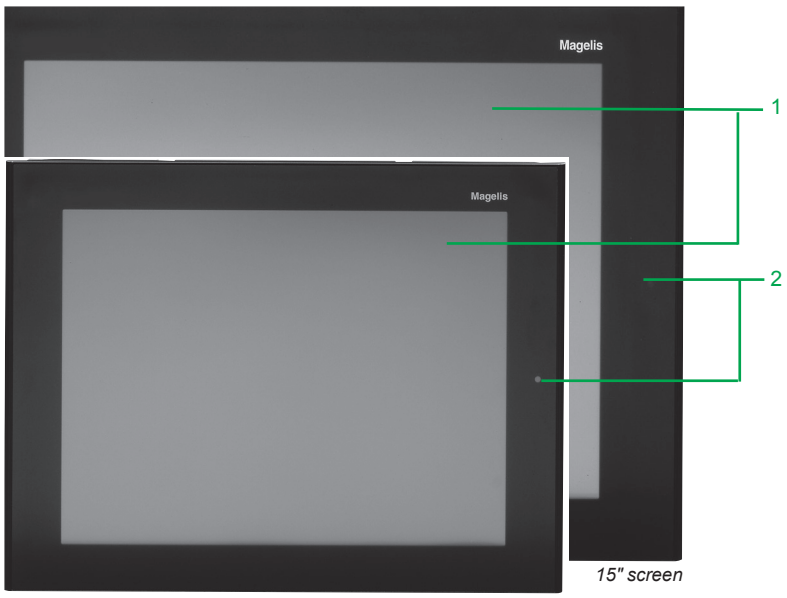
9 Mini-jack connector for connecting a microphone
10 RCA connector for connecting a digital or analog video camera (NTSC/PAL)

(1) See page 24 for details of the required connection accessories.

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Operator dialogue terminals
Advanced Touch panels
Magelis XBTGT with 12.1" or 15" screen

Description
Magelis Multifunction XBTGT63●0 & XBTGT7340

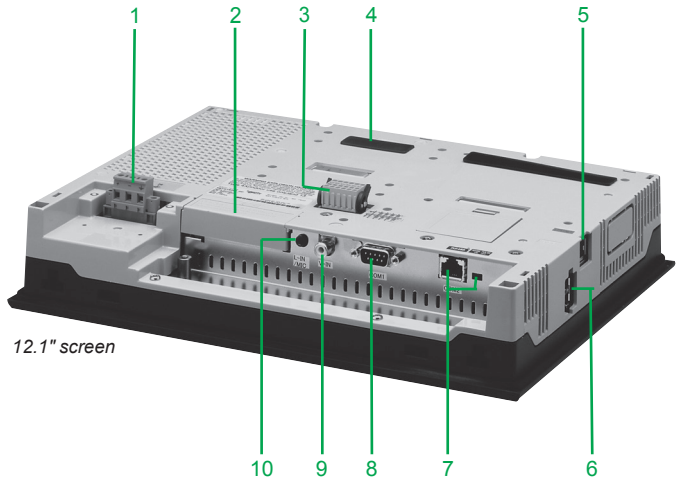


15" screen

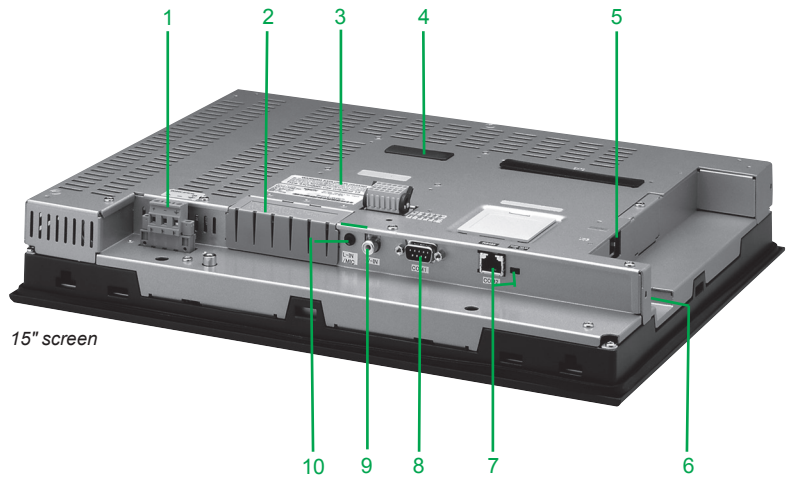
12.1" screen

The front panel comprises:

1 Touch screen for displaying synoptic views (12.1" or 15" color TFT, depending on model)
2 Multicolor indicator (green, orange and red) showing the terminal's operating mode



12.1" screen



15" screen

The rear panel comprises:

1 Removable screw terminal block for 24 V ⎓ power supply
2 Slot for Compact Flash memory card, with hinged cover
3 Removable I/O connector, 12 spring terminals for loudspeaker connection, 1 input (reset) and 3 outputs (alarm, buzzer, run)
4 Expansion unit interface for fieldbus communication card (Device Net, PROFIBUS DP) *(1)*
5 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 RJ45 connector for RS 485 (COM2) with switch for polarization of the link used on Modbus
8 9-way male SUB-D connector for RS 232C or RS 422/485 serial link to PLCs (COM1)

On XBTGT6340 and XBTGT7340 only:

9 Mini-jack connector for connecting a microphone
10 RCA connector for connecting a digital or analog video camera (NTSC/PAL)

(1) See page 24 for details of the required connection accessories.

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Operator dialogue terminals
Advanced Touch panels
Magelis XBTGT


XBTGT2220/2330


XBTGT43●0


XBTGT53●0


XBTGT63●0


XBTGT7340

Color touch screen terminals (1)

Type of screen	Number of ports	Application memory capacity	Compact Flash memory	Composite video input	Embedded Ethernet	Reference	Weight kg/*lb*
Multifunction, 5.7" QVGA screen							
STN	1 COM1 1 COM2 1 USB	16 MB	Yes	No	–	**XBTGT2220**	1.000/ *2.204*
TFT	1 COM1 1 COM2 1 USB	16 MB	Yes	No	1	**XBTGT2330**	1.000/ *2.204*
TFT High Brightness	1 COM1 1 COM2 1 USB	16 MB	Yes	No	1	**XBTGT2930**	1.000/ *2.204*
Multifunction, 5.7" VGA screen							
TFT	1 COM1 1 COM2 2 USB	32 MB	Yes	No	1	**XBTGT2430**	–
Multifunction, 7.5" VGA screen							
TFT	1 COM1 1 COM2 1 USB	32 MB	Yes	No	1	**XBTGT4330**	1.800/ *3.968/*
				Yes	1	**XBTGT4340**	1.800/ *3.968*
Multifunction, 10.4" VGA screen							
TFT	1 COM1 1 COM2 2 USB	32 MB	Yes	No	1	**XBTGT5330**	2.500/ *5.511*
				Yes	1	**XBTGT5340**	2.500/ *5.511*
Multifunction, 10.4" SVGA screen							
TFT	1 COM1 1 COM2 2 USB	32 MB	Yes	No	1	**XBTGT5430**	2.500/ *5.511*
Multifunction, 12.1" SVGA screen							
TFT	1 COM1 1 COM2 2 USB	32 MB	Yes	No	1	**XBTGT6330**	3.000/ *6.613*
				Yes	1	**XBTGT6340**	3.000/ *6.613*
Multifunction, 15" XGA screen							
TFT	1 COM1 1 COM2 2 USB	32 MB	Yes	Yes	1	**XBTGT7340**	5.600/ *12.345*

(1) Fixing kit (screw clips), locking device for USB connectors and instruction sheet included with terminals. Setup documentation for XBTGT terminals is included in electronic format with Vijeo Designer configuration software (for more information on Vijeo Designer, please refer to our website www.schneider-electric.com).

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Operator dialogue terminals
Magelis Advanced Touch panels
Separate parts for terminals
Magelis XBTGT



XBTZGM●●●

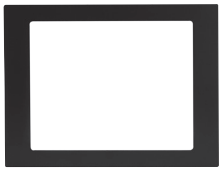
Separate components

Description	Characteristics	Compatible with terminals	Reference	Weight kg/lb
Compact Flash memory cards	128 MB, blank	XBTGT	**XBTZGM128**	0.050/ *0.110*
	256 MB, blank		**XBTZGM256**	0.050/ *0.110*
	512 MB, blank		**MPCYN00CFE00N**	0.050/ *0.110*
	1 GB, blank		**MPCYN00CF100N**	–
	2 GB, blank	XBTGT	**MPCYN00CF200N**	–
Maintenance kits	Includes fixings and seals for panel mounting	MPCST11N●J00T (8.4” screen)	**MPCYK10MNTKIT**	–
		MPCST21N●J20● (12” screen)	**MPCYK20MNTKIT**	–
		MPCST52NDJ10 (15” screen)	**MPCYK50MNTKIT**	–
Protective sheets (5 peel-off sheets)	–	XBTGT2220/GT2●30	**XBTZG62**	0.200/ *0.441*
		XBTGT43●0	**XBTZG64**	0.200/ *0.441*
		XBTGT53●0/XBTGT54●0	**XBTZG65**	0.200/ *0.441*
		XBTGT63●0	**XBTZG66**	0.200/ *0.441*
		XBTGT7340	**MPCYK50SPSKIT**	0.200/ *0.441*
Plastic protective covers **Sold in lots of 5**		XBTGT2●●●	**XBTZG70**	–
		XBTGT53●●	**XBTZG71**	–

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Operator dialogue terminals
Magelis Advanced Touch panels
Separate parts for terminals
Magelis XBTGT



XBTZGCO●



XBTZGUSB

Separate components (continued)

Description	Characteristics	Compatible with terminals	Reference	Weight kg/lb
Spring fixing clips **Sold in lots of 12**	Number of spring clips depending on terminal	XBTGT	**XBTZ3002**	–

Description	Description	Length m/*ft*	Reference	Weight kg/lb
Mechanical adaptors for substitution of terminals of the Magelis range	From XBTF032●10 to XBTGT2●●0	–	**XBTZGCO1**	–
	From XBTG2110 to XBTGT2●●0	–	**XBTZGCO2**	–
	From XBTF034●●● to XBTGT53●0	–	**XBTZGCO3**	–
	From XBTG5330 to XBTGT5330 From XBTGT5230 to HMIGTO5310	–	**XBTZGCO4**	–
Remote USB port for terminals XBTGT2●●0…GT7340	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)	*1/2.20*	**XBTZGUSB**	–
Remote USB port for terminals XBTGT2●●0…GT7340	Enables the USB mini-B port to be located remotely on the rear of the XBT or HMIGTO terminal on a panel or enclosure door (Ø 21 mm fixing device)	*1/2.20*	**XBTZGUSBB**	–

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Operator dialogue terminals
Magelis Advanced Touch panels
Spare parts for terminals
Magelis XBTGT

Spare parts

Description	For use with terminals	Reference	Weight kg/lb
Seals	XBTGT2220/GT2330	**XBTZG52**	0.030/ *0.066*
	XBTGT43●0	**XBTZG54**	0.030/ *0.066*
	XBTGT53●0	**XBTZG55**	0.030/ *0.066*
	XBTGT63●0	**XBTZG56**	0.030/ *0.066*
	XBTGT7340	**XBTZG57**	0.030/ *0.066*
Backlighting lamps	XBTGT53●0	**XBTZG45**	0.200/ *0.441*
	XBTGT53●0 PV ≥ 3/XBTGT54●0	**XBTZG45B**	0.200/ *0.441*
	XBTGT7340	**XBTZG47**	0.200/ 0.441
USB fastenings Sold in lots of 5	XBTGT2●●0/GT4●●0	**XBTZGCLP1**	–
	XBTGT5●●0/GT6●●0/GT7●●0	**XBTZGCLP2**	–
Fixing kit	4 clips and screws (max. tightening torque: 0.5 Nm), supplied with all XBTGT terminals	**XBTZGFIX**	0.100/ *0.220*
Extension connector protection	XBTGT	**XBTZGCNC**	0.030/ *0.066*
Power supply connector Sold in lots of 5	XBTGT2●●●/GT4●●●	**XBTZGPWS1**	0.030/ *0.066*
	XBTGT5●●●/6●●●/7●●●	**XBTZGPWS2**	–
Auxiliary connector	XBTGT4●●●/5●●●/6●●●/7●●●	**XBTZGAUX**	–

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Operator dialogue terminals
Magelis Advanced Touch panels
Connection accessories for terminals
Magelis XBTGT

Cables for application transfer - Terminal to PC

Type of terminal (terminal end connector)	Connector (PC end)	Type	Length m/*ft*	Reference *(1)*	Weight kg/*lb*
XBTGT2●●0...GT7340	USB	TTL	2/ *6.56*	**XBTZG935**	0.290/ *0.639*

Printer connection cables

Type of printer *(2)*	Connector (printer end)	Type	Length m/*ft*	Reference	Weight *kg/lb*
Serial printer for XBTGT terminals	SUB-D female 25-way	RS 232C (COM1)	2.5/ *5.51*	**XBTZ915**	0.200/ *0.441*
Serial printer for XBTGT	USB	RS 232C (COM1)	1.80/ *3.97*	**HMIZURS**	–

Adaptors and isolation boxes for XBT terminals and HMIGTO panels

These 3 adaptors are used with the connection cables depending on the application concerned.
For example, the **XBTZ968** cable is used with the **XBTZG909** adaptor, to connect a Twido controller (via its terminal port) to an **XBTGT2●●0** terminal (via its COM1 port).

Description	Type of connector (automation product end)	Physical link (XBT or HMIGTO terminal end)	Length m/*ft*	Reference	Weight *kg/lb*
Adaptor for XBTGT2●●0...7340	25-way SUB-D connector	RJ 45 connector	0.2/ *0.44*	**XBTZG939**	–
Adaptors for XBTGT2●●0...7340	25-way SUB-D connector	9-way SUB-D connector, RS 485 on XBT terminal only	0.2/ *0.44*	**XBTZG909** *(3)*	–
		9-way SUB-D connector, RS 232C	0.2/ *0.44*	**XBTZG919**	–

Description	For use with	Link to isolate	Reference	Weight *kg/lb*
Serial link isolation units for XBTGT2●●0...7340	- Connection to serial port of XBT terminal - Isolated link on 9-way SUB-D connector *(4)* - Box power supply via USB port of terminal. Incorporates a USB port expander.	RS 232C/RS 485 (COM1)	**XBTZGI232**	–
		RS 485 (COM2)	**XBTZGI485**	–



XBTZGI485

(1) Cable included (depending on model) with Vijeo Designer software packages (for more information on Vijeo Designer, please refer to our website www.schneider-electric.com).
(2) Parallel printer (see page 9).
(3) This adaptor cannot be used with Magelis GTO terminals.
(4) Male connector with **XBTZGI232**, *female connector with* **XBTZGI485**.

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Operator dialogue terminals
Magelis Advanced Touch panels
Connection accessories for terminals
Magelis XBTGT

Cables for connecting Magelis terminals to other Schneider Electric products

Automation product type	Type of connector (automation product end)	Protocol	Type of terminal	Link	On port	Length m/*ft*	Reference	Weight kg/*lb*
Twido, Nano, Modicon TSX Micro, Modicon Premium	Terminal port, 8-way female mini-DIN	Uni-TE (V1/V2), Modbus	XBTGT2●●0...7340	RS 485	COM1 COM2	2.5/ 5.51	**XBTZ9780**	0.180/ *0.397*
						10/ 22.05	**XBTZ9782**	–
			XBTGT2●●0...7340	RS 485	COM1	2.5/ 5.51	**XBTZ968** + *(2)*	0.180/ *0.397*
						5/ 11.02	**XBTZ9681** + *(2)*	0.340/ *0.750*
			XBTGT2●●0...7340	RS 485	COM1	2.5/ 5.51	**XBTZ9018**	0.170/ *0.375*
Modicon M340 Modicon M238 Modicon M258	RJ45	Modbus	XBTGT2●●0...7340	RS 485	COM1 COM2	2.5/ 5.51	**XBTZ9980**	0.230/ *0.507*
						10/ 22.05	**XBTZ9982**	–
			XBTGT2●●0...7340	RS 485	COM1	1.8/ 3.97	**XBTZ938** + *(2)*	0.230/ *0.507*
						2.5/ 5.51	**XBTZ9008**	–
	USB Mini-B	Terminal port	XBTGT *(4)*	USB	USB type A	1.8/ 3.97	**BMXXCAUSBH018**	0.230/ *0.507*
						4.5/ *9.92*	**BMXXCAUSBH045**	–
Modicon Premium with TSXSCY2160●	25-way female SUB-D	Uni-TE (V1/V2)	XBTGT2●●0...7340	RS 485	COM1	2.5/ 5.51	**XBTZ918** +*(2)*	0.230/ *0.507*
Modicon Quantum	9-way male SUB-D	Modbus	XBTGT2●●0...7340	RS 232C	COM1	2.5/ 5.51	**XBTZ9710** + *(3)*	0.210/ *0.463*
						3.7/ 8.16	**990NAA26320**	0.290/ *0.639*
Modicon STB	HE13 (NIM, network interface module)	Modbus	XBTGT2●●0...7340	RS 232C	COM1	2/ 4.41	**STBXCA4002**	0.210/ *0.463*
						2.5/ 5.51	**XBTZ988** + *(3)*	0.220
Modicon Momentum M1	RJ45 (port 1 on Momentum M1)	Modbus	XBTGT2●●0...7340	RS 232C	COM1	2.5/ 5.51	**XBTZ9711** + *(3)*	0.210/ *0.463*
TeSys U, T starters ATV312/61/71 variable speed drives ATS48 starters Lexium 05 Preventa XPSMC	RJ45	Modbus	XBTGT2●●0...7340	RS 485	COM1 COM2	2.5/ 5.51	**XBTZ9980**	–
						10/ 22.05	**XBTZ9982**	–
			XBTGT2●●0...7340	RS 485	COM1	2.5/ 5.51	**XBTZ9008**	–

*(1) Adaptor **XBTZG939** to be used with cables with " + (1) " after the reference.*
*(2) Adaptor **XBTZG909** to be used with cables with " + (2) " after the reference.*
*(3) Adaptor **XBTZG919** to be used with cables with " + (3) " after the reference.*
*(4) Except **XBTGT1●●0**.*

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Operator dialogue terminals
Magelis Advanced Touch panels
Connection accessories for terminals
Magelis XBTGT

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

Mitsubishi, Melsec PLCs

Description *Driver used*	Type of terminal	Type of connector (fitted to cable, excluding adaptor)	Physical link (COM1)	Length m/*ft*	Reference	Weight kg/*lb*
Connection cable, ***A CPU** (SIO)*	XBTGT2●●0...7340	9-way SUB-D 25-way SUB-D	RS 422	5/ *16.40*	**XBTZG9773**	–
Connection cable, ***Q Link** (SIO)*	XBTGT2●●0...7340	9-way SUB-D 9-way SUB-D	RS 232C	5/ *16.40*	**XBTZG9772**	–
Connection cable, ***Q CPU** (SIO)*	XBTGT2●●0...7340	9-way SUB-D mini-DIN	RS 232C	5/ *16.40*	**XBTZG9774**	–
Connection cable, ***A Link** (SIO)*	XBTGT2●●0...7340	9-way SUB-D 25-way SUB-D	RS 232C	5/ *16.40*	**XBTZG9731**	–
Connection cable, ***FX** (CPU)*	XBTGT2●●0...7340	9-way SUB-D mini-DIN	RS 422	5/ *16.40*	**XBTZG9775**	–
Cable for 2-port adaptor, ***FX** (CPU),* ***A CPU** (SIO)* ***QnA CPU** (SIO)*	XBTGT2●●0...7340	9-way SUB-D Flying leads	RS 422	5/ *16.40*	**XBTZG9778** + *(4)*	–
Adaptor unit ***FX** (CPU),* ***A CPU** (SIO)* ***QnA CPU** (SIO)*	XBTGT2●●0...7340	2-port unit Screw terminals / 2 x 9-way SUB-D	RS 422	–	**XBTZG979**	–



XBTZG9772



XBTZG9731

Omron, Sysmac PLCs

Description *Driver used*	Type of terminal	Type of connector (fitted to cable, excluding adaptor)	Physical link (COM1)	Length m/*ft*	Reference	Weight kg/*lb*
Connection cables, ***Link** (SIO)*	XBTGT2●●0...7340	9-way SUB-D 9-way SUB-D	RS 232C	5/ *16.40*	**XBTZG9740**	–
		9-way SUB-D 25-way SUB-D	RS 232C	5/ *16.40*	**XBTZG9731**	–
Connecting cables, ***FINS** (SIO)*	XBTGT2●●0...7340	9-way SUB-D 9-way SUB-D	RS 232C	5/ *16.40*	**XBTZG9740**	–

*(4) Adaptor **XBTZGCOM1** (9-way female/female SUB-D) to be used with cables with " + (4)" after the reference (**XBTZG9778**).*

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XBTZG9731

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

Rockwell Automation, Allen-Bradley PLCs

Description *Driver used*	Type of terminal	Type of connector (fitted to cable, excluding adaptor)	Physical link (COM1)	Length m/*ft*	Reference	Weight kg/*lb*
Connection cables, ***DF1 Full Duplex***	XBTGT2●●0...7340	9-way SUB-D 25-way SUB-D	RS 232C	5/ *16.40*	**XBTZG9731**	–
Connection cables, ***DH485***	XBTGT2●●0...7340	25-way SUB-D 8-way mini-DIN	RS 485	5/ *16.40*	**XBTZ9732** + *(2)*	–

Siemens, Simatic PLCs

Description *Driver used*	Type of terminal	Type of connector (fitted to cable, excluding adaptor)	Physical link	Length m/*ft*	Reference	Weight kg/*lb*
Connection cables, ***PPI, S7 200***	XBTGT2●●0...7340	RJ45/9-way SUB-D	RS 485 (COM2)	2.5/ *8.20*	**XBTZG9721**	–
Connection cables, ***MPI port, S7 300/400***	XBTGT2●●0...7340	9-way SUB-D 9-way SUB-D	RS 232C (COM1)	3/ *9.84*	**XBTZG9292**	–
	XBTGT2●●0...7340	RJ45/flying leads other end	RS 485 *(3)* (COM2)	3/ *9.84*	**VW3A8306D30**	0.150/ *0.331*
		RJ45/9-way SUB-D	RS 485 *(3)* (COM1 or COM2) *(4)*	2.5/ *8.20*	**XBTZG9721**	–

Customizable cables

Description *Driver used*	Terminal type	Type of connector (fitted to cable, excluding adaptor)	Physical link	Length m/*ft*	Reference	Weight kg/*lb*
Universal cable, **RS 422**	XBTGT2●●0...7340	9-way SUB-D/flying leads other end	RS 422 (COM1)	2.5/ *8.20*	**XBTZG9722**	0.210/ *0.463*
Universal adaptor, **RS 422/485**	XBTGT2●●0...7340	9-way SUB-D/Screw terminal	RS 422 (COM1)	–	**XBTZG949** + *(5)*	–
		9-way SUB-D/Screw terminal	RS 485 (COM2)	–	**XBTZG949** + *(6)*	–

(2) Adaptor ***XBTZG909*** *to be used with cables with " + (2) " after the reference (see page 19).*
(3) Non-isolated RS 485 serial link, 12 Mbps (187.5 kbps with ***XBTGT11●0/2110****).*
(4) COM1 for ***HMIGTO1310****, COM2 for the other terminals.*
(5) Cable to be created by user and used in conjunction with 9-way female/female SUB-D adaptor ***XBTZGCOM1****.*
(6)Cable to be created by user and used in conjunction with isolation box ***XBTZGI485*** *and 9-way male/female SUB-D adaptor* ***XBTZGCOM2.***

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Operator dialogue terminals
Magelis Advanced Touch panels
Connection accessories for terminals
Magelis XBTGT


TSXSCA62


TSXPACC01


TSXSCA64


LU9GC3


VW3A8306TF10


TWDXCAISO

Connection of Magelis terminals via serial links and Ethernet network

Type of bus/ network	Tap-off units	Connector (tap-off unit side)	Terminal type	Length m/*ft*	Reference	Weight *kg/lb*
Uni-Telway serial link	Subscriber socket TSXSCA62	15-way female SUB-D	XBTGT2●●0...7340	3/ *9.84*	**VW3A8306**	0.150/ *0.331*
			XBTGT2●●0...7340	1.8/ *5.90*	**XBTZ908** + *(2)*	0.240/ *0.529*
	Connection box TSXPACC01	8-way female mini-DIN	XBTGT2●●0...7340	2.5/ *8.20*	**XBTZ9780**	0.180/ *0.397*
			XBTGT2●●0...7340	2.5/ *8.20*	**XBTZ9018**	–
Modbus serial link	Subscriber socket TSXSCA64	15-way female SUB-D	XBTGT2●●0...7340	3/ *9.84*	**VW3A8306**	0.150/ *0.331*
			XBTGT2●●0...7340	1.8/ *5.90*	**XBTZ908** + *(2)*	0.240/ *0.529*
	8-port Modbus splitter box LU9GC3 2-port tap-off junction TWDXCAISO TWDXCAT3RJ	RJ45	XBTGT2●●0...7340	2.5/ *8.20*	**XBTZ9008**	–
	T-junction box	With integrated cable, RJ45 fitted	XBTGT2●●0...7340	1/ *3.28*	**VW3A8306TF10**	–
Ethernet TCP/IP network	Hubs 499 NEH/NOH Switches 499 NES, 499 NMS, 499 NSS and 499 NOS	RJ45	XBTGT●●30 / ●●40	2/ *6.56*	**490NTW00002**	–
				5/ *16.40*	**490NTW00005**	–
				12/ *39.37*	**490NTW00012**	–
				40/ *131.23*	**490NTW00040**	–
				80/ *262.46*	**490NTW00080**	–

*(2) Adaptor **XBTZG909** to be used with cables with " + (2) " after the reference (see page 17).*

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Operator dialogue terminals
Magelis Advanced Touch panels
Connection accessories for terminals
Magelis XBTGT

Connection of Magelis terminals to fieldbuses

Type of bus/network	Connection components	Type of terminal	Reference	Weight kg/lb
FIPWAY, FIPIO	USB gateway	XBTGT	**TSXCUSBFIP**	–
Modbus Plus	USB gateway	XBTGT	**XBTZGUMP**	–
			TSXCUSBMBP	–
Profibus DP	Card on expansion bus	XBTGT	**XBTZGPDP**	–
Device Net	Card on expansion bus	XBTGT	**XBTZGDVN**	–

Modular regulated switch mode power supplies *(1)*

Input voltage/ Output voltage	Combination with terminals	Nominal power	Nominal current	Reference	Weight kg/lb
100...240 / 24 V single-phase wide range line supply 47...63 Hz	XBTGT1100...6340	30 W	1.2 A	**ABL8MEM24012**	0.195/ *0.430*
	XBTGT7340	60 W	2.5 A	**ABL7RM24025**	0.255/ *0.562*



ABL7RM24025

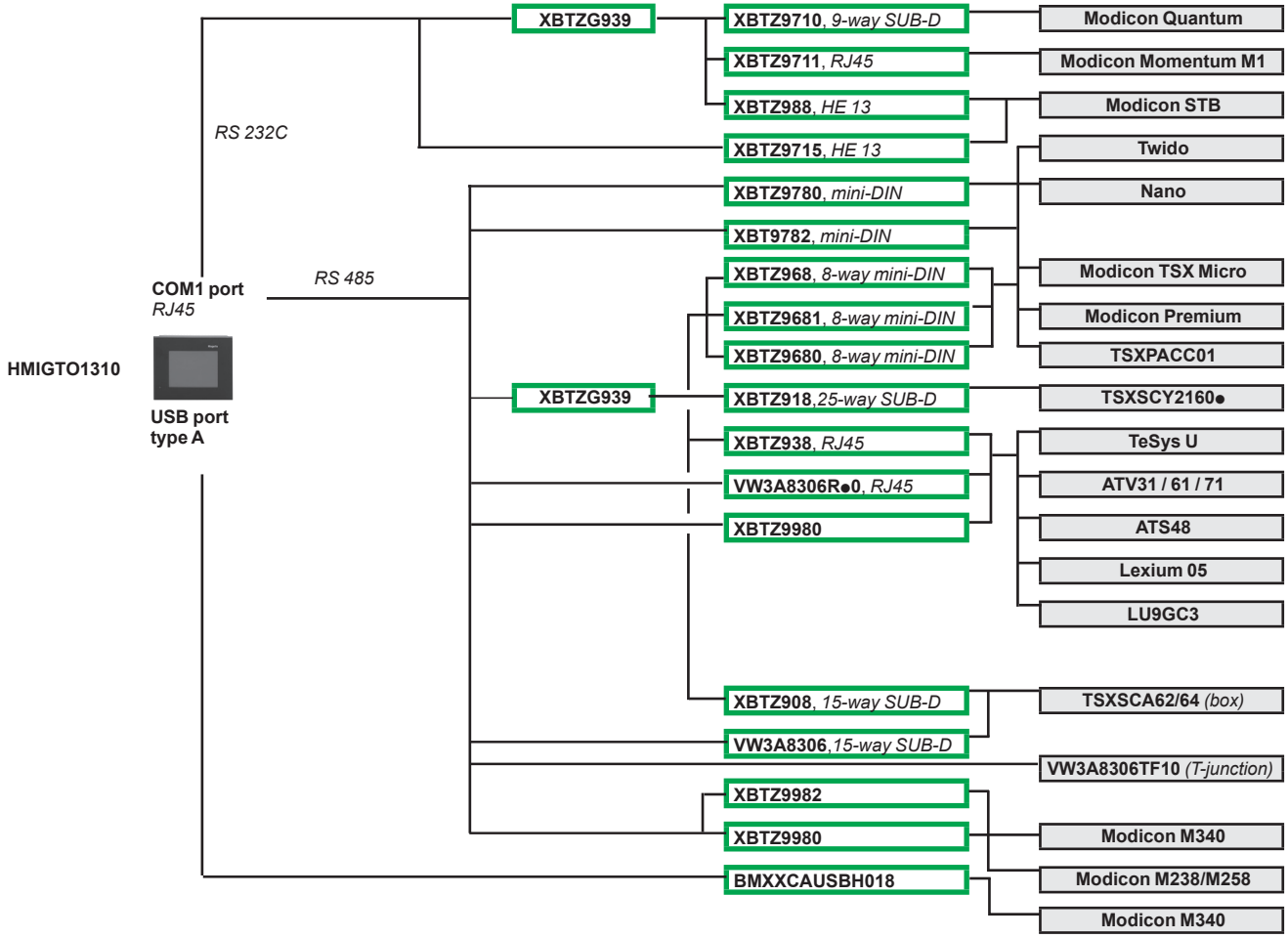
*(1) Dimensions: H x W x D = 90 x 54 x 59 mm (ABL 8MEM24012) and 90 x 72 x 59 mm (**ABL7RM24025**). For further information, please refer to our website www.schneider-electric.com.*

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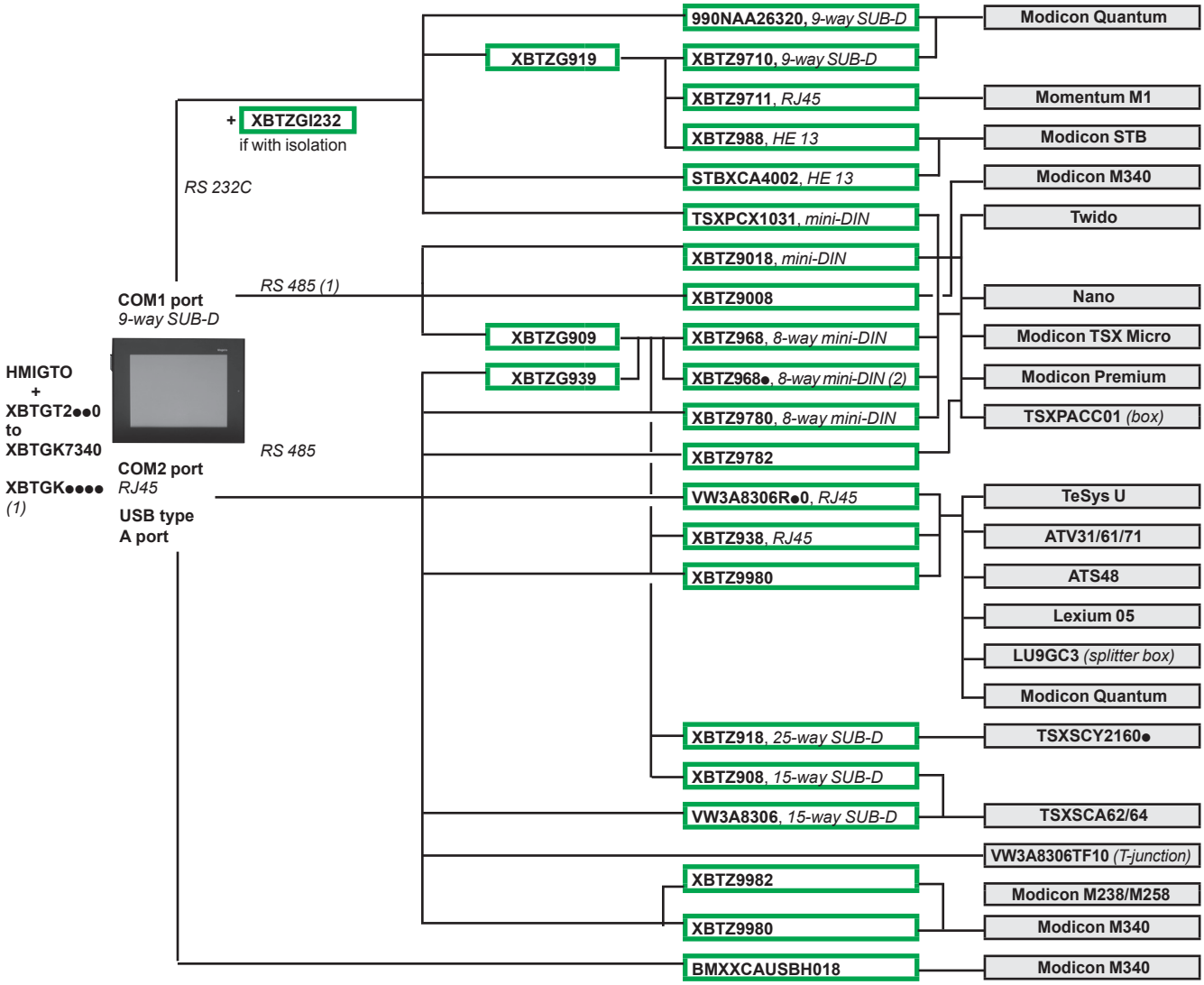
Operator dialogue terminals
Magelis Advanced Touch panels
Connection system

XBTGT11●5 terminals, HMIGTO1310 terminals and Schneider Electric products



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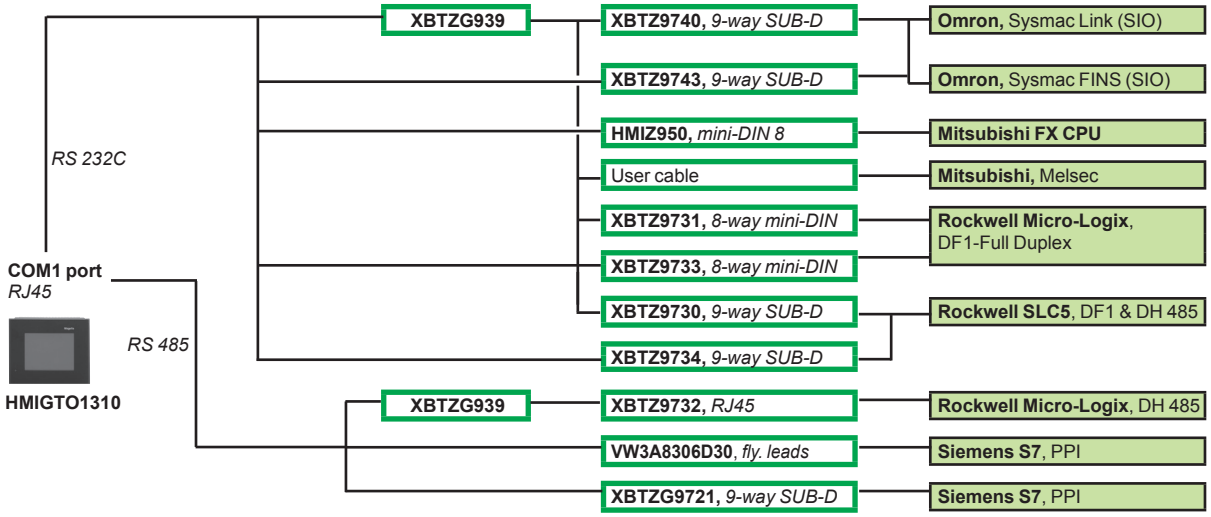
XBTGT2●●0/GT7340/GK●●●● terminals, HMIGTO terminals (except HMIGTO1310) and Schneider Electric products



(1) RS485 not available for HMIGTO (COM1).
(2) ● defines the length:
- **0**, *2.5 m (elbowed connector)*
- **1**, *5 m*
- **6**, *16 m*
- **7**, *20 m*
- **8**, *25 m*

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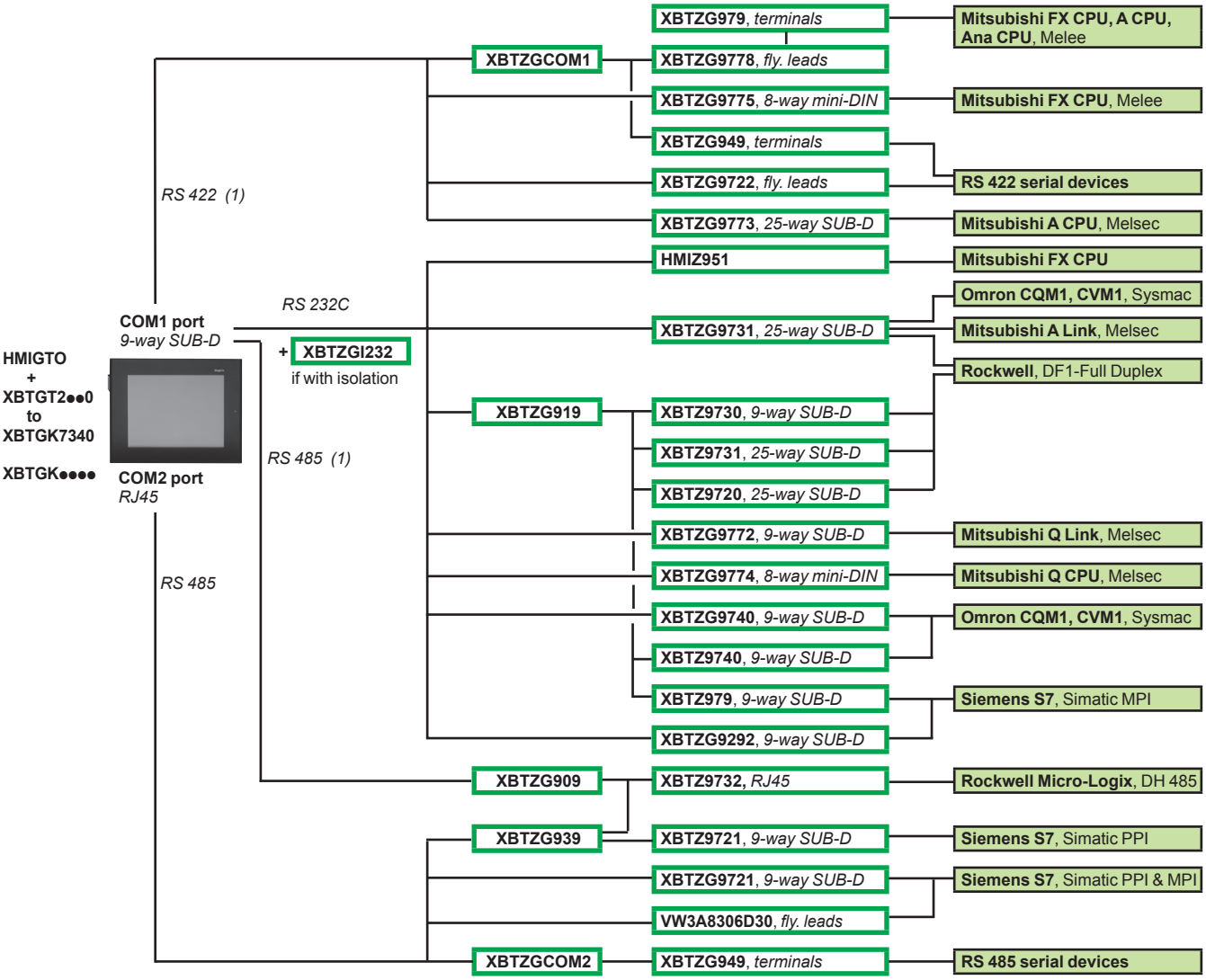
HMIGTO1310 terminals and third party PLCs



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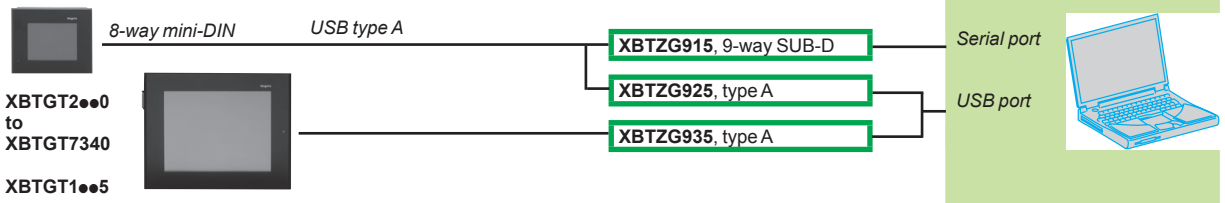
Operator dialogue terminals
Magelis Advanced Touch panels
Connection system

XBTGT2●●0/GT7340/GK●●●● terminals, HMIGTO terminals and third-party PLCs

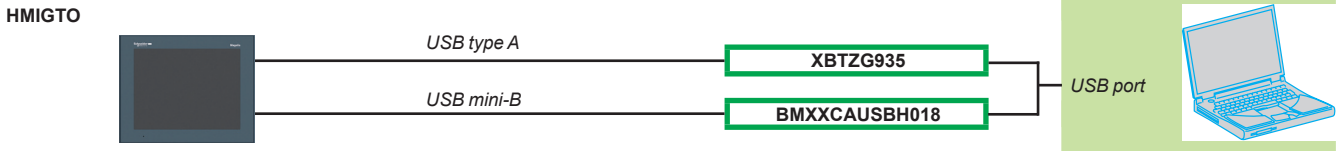


(1) RS 422 and RS 425 not available on HMIGTO (COM1).

Application transfer from XBTGT terminals to PC



Application transfer from HMIGTO terminals to PC



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Operator dialogue terminals
Magelis Advanced Touch panels
Equivalent product table Magelis XBTGT and HMIGTO

Equivalent product table between XBTGT terminals and HMIGTO terminals

Old range XBTGT	New range HMIGTO *Requires Vijeo Designer ≥ V6.1*	Mechanical adaptor
XBTGT1100	**HMIGTO1300**	–
XBTGT1130	**HMIGTO1310**	–
XBTGT1105	**HMIGTO1300**	–
XBTGT1135	**HMIGTO1310**	–
XBTGT1335	**HMIGTO1310**	–
XBTGT2110	**HMIGTO2300**	–
XBTGT2120	**HMIGTO2310**	–
XBTGT2130	**HMIGTO2310**	–
XBTGT2220	**HMIGTO2310**	–
XBTGT2330	**HMIGTO2310**	–
XBTGT4230	**HMIGTO4310**	–
XBTGT4330	**HMIGTO4310**	–
XBTGT5230	**HMIGTO5310**	**XBTZGC04**
XBTGT5330	**HMIGTO5310**	–
XBTGT6330	**HMIGTO6310**	–

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.

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