

Human/Machine Interfaces

Magelis™ XBTGC HMI controllers

Magelis XBTGT and XBTGK Advanced panels
with control function

Catalog

March 2015



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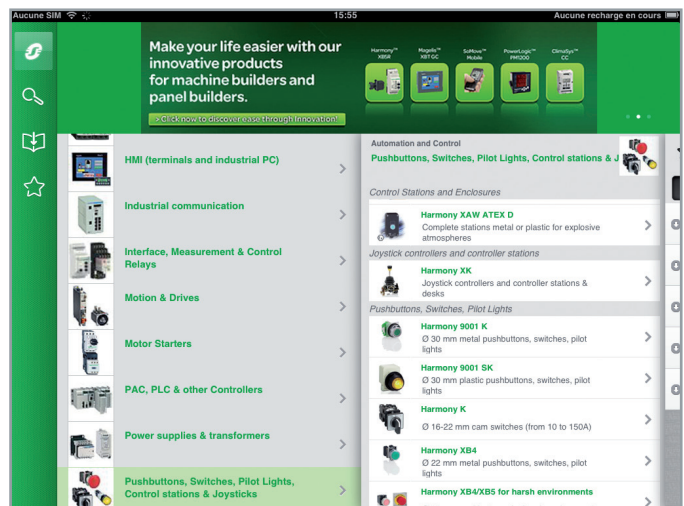
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Magelis™ XBTGC HMI controllers, Magelis XBT GT/GK Standard Advanced panels with control

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General presentation

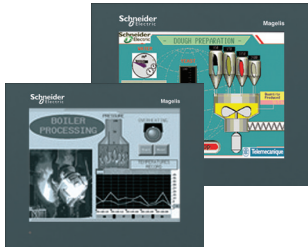
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HMI controllers
Magelis SCU Small HMI controllers,
Magelis XBTGC HMI controllers,
Magelis XBTGT, XBTGK Standard Advanced panels + control function

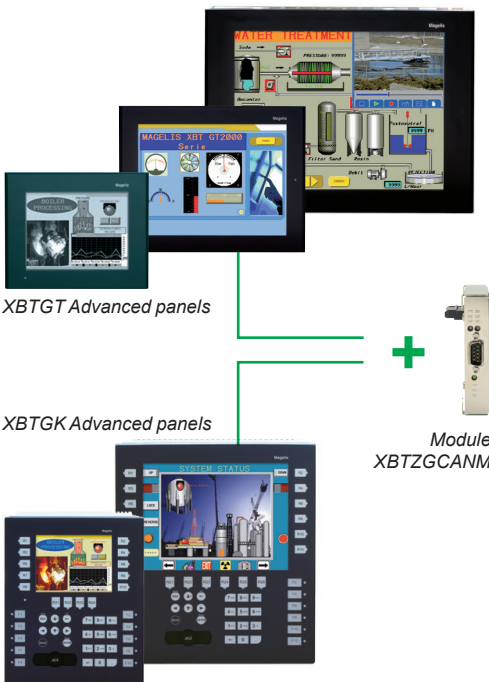
Applications		Display of text messages, graphic objects and mimics, control and configuration of data			
Terminal type		IEC 1131-2 control function			
		Small HMI controllers			
		For control of simple machine		For control of simple process	
					
Display	Type	Color TFT LCD			
	Capacity	3.5" (65K colors)	5.7" (65K colors)	3.5" (65K colors)	5.7" (65K colors)
Data entry		Via touch screen			
		Static function keys			
		Dynamic function keys			
		Service keys			
		Alphanumeric keys			
Memory capacity	Application	128 MB Flash EPROM			
	Expansion	–			
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	2 x 100 KHz high speed counter inputs/2 x 50 KHz pulse train outputs			
	Control (PID)	Yes			
	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, light			
	Recipes	32 groups of 64 recipes comprising 1024 ingredients max.			
	Curves	Yes, with log			
	Alarm logs	Yes			
	Real-time clock	Built-in			
I/O	Integrated	☐ 14 x 24 V ~ digital inputs ☐ 2 high speed counter (HSC) inputs ☐ 8 digital relay outputs ☐ 2 pulse train source transistor outputs		☐ 6 x 24 V ~ digital inputs ☐ 2 high speed counter (HSC) inputs ☐ 6 digital relay outputs ☐ 2 pulse train source transistor outputs ☐ 2 x 13-bit analog inputs (Voltage/current) ☐ 2 x 16-bit analogue temperature inputs (TC/PT100-1000) ☐ 2 x 12-bit analog outputs (Voltage/current)	
	I/O modular expansion	–			
Communication	Downloadable protocols	Modbus, Modbus TCP/IP (1)			
	Asynchronous serial link	RS-232C/RS-485 (COM1)			
	USB ports	1 Host type A + 1 Device type mini-B			
	Buses and networks	1 CANopen master			
		Ethernet TCP/IP (10BASE-T/100 BASE-TX)			
		USB port for parallel printer			
Design software		SoMachine on Windows XP Professional and Windows 7 Professional 32/64-bit (please refer to our website www.schneider-electric.com).			
Operating system		Magelis (333 MHz RISC CPU)			
Terminal type		HMISCU6A5	HMISCU8A5	HMISCU6B5	HMISCU8B5
Pages		For more information, refer to Magelis SCU catalog on our website www.schneider-electric.com .			

(1) Depending on model.

Display of text messages, graphic objects and mimics, control and configuration of data		
IEC 1131-2 control function		
HMI controllers	Touch screen Standard Advanced panels + control function	Standard Advanced panels with keypad + control function
		
Color TFT LCD (320 x 240 pixels)	Backlit color TFT LCD (320 x 240 pixels to 1024 x 708 pixels) (1)	Monochrome STN LCD or color TFT LCD (320 x 240 pixels or 640 x 480 pixels) (1)
5.7" (65K colors)	5.7" (color) 7.5", 10.4", 12.1" or 15" (color) (1)	5.7" (monochrome or color) or 10.4" (color) (1)
Via touch screen		Via keypad and/or touch screen (configurable) and/or by industrial pointer
-		10 or 12 (1)
-		14 or 18 (1)
-		8
-		12
16 MB Flash EPROM	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 capacity	Limited by internal Flash EPROM memory capacity or CF card memory capacity	
Unlimited (8000 variables max.)		
5 languages according to IEC 1131-2 (LD, ST, FBD, SFC, IL)		
4 x 100 KHz high speed counter inputs/4 x 65 KHz pulse train outputs	-	
Yes		
Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, light		
32 groups of 64 recipes comprising 1024 ingredients max.		
Yes, with log		
Yes		
Built-in		
☐ 16 x 24 V ~ digital inputs ☐ 16 sink or source transistor outputs (1)	-	
3 Modicon TM2 I/O modules max.	-	
Uni-TE, Modbus, Modbus TCP/IP (1) and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens		
RS-232C/RS-422/RS-485 (COM1)	RS-232C/RS-422/RS485 (COM1) and RS-485 (COM2)	
1	1 or 2 (1)	
1 CANopen master with optional module (XBTZGC CAN)	1 CANopen master with external module (XBTZG CANM) which is mandatory for the control function	
Ethernet TCP/IP (10BASE-T/100BASE-TX)	Ethernet TCP/IP (10BASE-T/100BASE-TX) (1)	
USB port for parallel printer	USB port for parallel printer and RS-232C (COM1) serial link	
SoMachine on Windows XP Professional and Windows 7 Professional 32/64-bit (please refer to our website www.schneider-electric.com).		
Magelis (131 MHz RISC CPU)	Magelis (131 MHz RISC or 266 MHz RISC CPU) (1)	Magelis (266 MHz RISC CPU)
XBTGC2330T XBTGC2330U	XBTGT2/4/5/6/3/73 + XBTZGCANM	XBTGK2/53 + XBTZGCANM
2/4	2/4 and 3/2	2/5 and 3/2



Magelis XBTGC HMI controllers



HMI function: Magelis XBT GT/GK Advanced panels
+ control function: CANOpen XBTZGCANM master module

Presentation

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

The Magelis HMI controllers 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 comprises three ranges:

- The compact range: Magelis XBTGC HMI controllers
- The modular range: Magelis XBT GT/GK Standard Advanced panels with XBTZC CANM CANOpen module

Magelis XBTGC HMI controllers (compact range)

The compact design of Magelis XBTGC HMI controllers optimises setup (see page 2/2).

This range depending on the model, comprises:

- 5.7" color screen, 16 integrated inputs/16 integrated outputs (sink or source)
- Wide choice of communication interfaces: USB port, serial link, Ethernet and CANOpen

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 with XBTZCCANM CANOpen module (modular range)

This range is made up of the complete Magelis XBTGT or Magelis XBTGK Standard Advanced panels offers combined with a Control part using the XBTZG CANM CANOpen module. During operation, this module controls the I/O and the peripherals distributed via the CANOpen bus (see page 3/2).

The combination with Magelis XBTGT or Magelis XBTGK Standard Advanced panels gives a wide choice of screen sizes and types of data entry, depending on the model:

- 6 XBTGT touch screen terminals:
 - 5.7" color screen
 - 7.5", 10.4", 12.1" and 15" color screens
- 3 XBTGK terminals with keypad and/or touch screen:
 - 5.7" monochrome or color screens
 - 10.4" color screens

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

HMI controllers

Magelis XBTGC HMI controllers,
Magelis XBTGT, XBTGK Standard Advanced
panels with control



SoMachine



Vijeo Designer
(included in SoMachine)

Operation

With their fast multitasking processors, all the HMI controllers combine HMI and control functions and share the same screen, 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. The XBTGC 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 Modicon M238 logic controller.

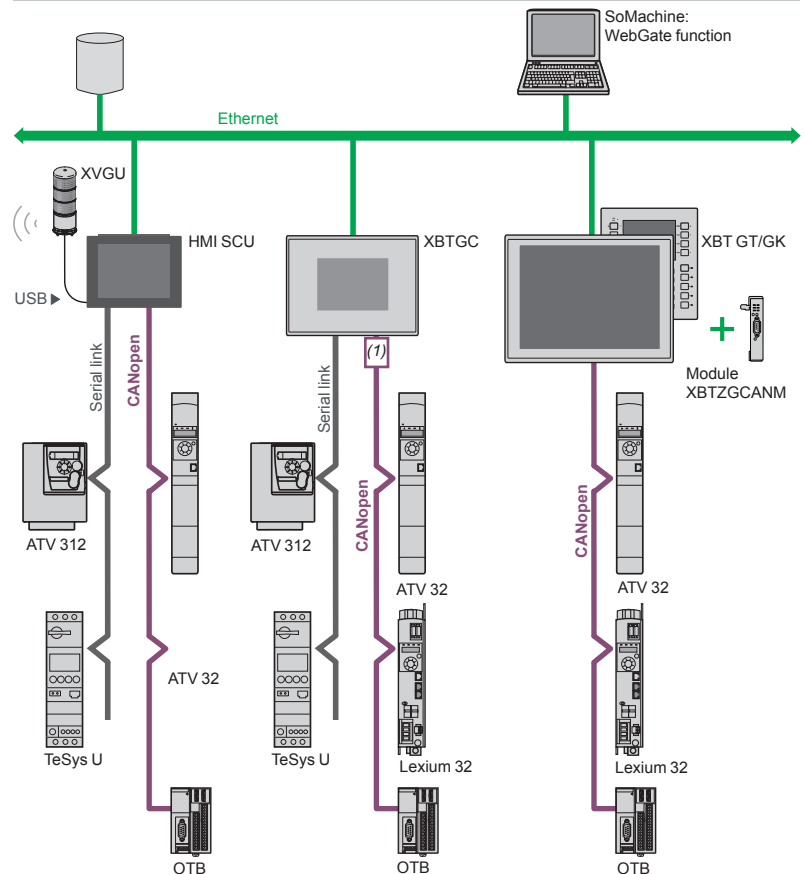
Configuration

Magelis XBTGC 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 (2) running on Windows XP Professional or Windows 7 Professional 32/64-bit.

SoMachine software (2) has an advanced user interface with many configurable windows, enabling unique projects to be developed quickly and easily.

Communication

Examples of communication architectures



Depending on the model, the Magelis HMI panels communicate with automation devices through 1 or 2 integrated serial links using the following communication protocols:

- Magelis SCU Small HMI controllers
 - Schneider Electric Modbus protocol
- Magelis XBTGC HMI controllers and XBTGT/GK Standard Advanced panels
 - Schneider Electric (Uni-TE, Modbus) protocols
 - Third-party protocols: 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.

(1) With XBTZGCCAN CANopen master module.

(2) For more information on SoMachine software and Vijeo Designer software, please refer to our website www.schneider-electric.com.

HMI controllers

Magelis XBTGC HMI controllers,
Magelis XBTGT, XBTGK Standard Advanced
panels with control

1

Functions

Magelis HMI controllers and Magelis Standard Advanced panels are part of Schneider Electric's Flexible Machine Control concept, a key element in MachineStruxure™.

Magelis XBTGC HMI controllers and Magelis XBT GT/GK Standard Advanced panels

Magelis XBTGC 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, color changes, filling, movement, rotation, size, visibility and value display)
- Control, modification of numeric and alphanumeric values
- Display of current time and date
- Real-time curves and trend 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 simultaneously)
- Recipe management
- Data processing via Java script
- Application support and USB key external memory logs
- Management of serial printers, barcode readers

Magelis XBTGC HMI controllers and Magelis XBTGT and XBTGK 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.

Eventually, Magelis XBT GT/GK will enable a smartphone or a PC tablet to be remotely connected to the HMI application.

Magelis XBTGC HMI controllers and Magelis XBTGT/XBTGK Standard Advanced panels offer the following HMI functions:

- Execution of programmed logic sequences with the five IEC 1131-2 languages (LD, ST, FBD, SFC, IL)
- Management of equipment on the CANopen fieldbus

Magelis XBTGC HMI controllers

In addition to the aforementioned functions, Magelis XBTGC HMI controllers enable management of:

- Integrated digital I/O
- integrated analog I/O
- 4 high speed counter (HSC) inputs, 100 kHz 1 channel or 50 kHz 2 channel
- 4 pulse train fast outputs, PTO/PWM 65 kHz

(1) Depending on model.

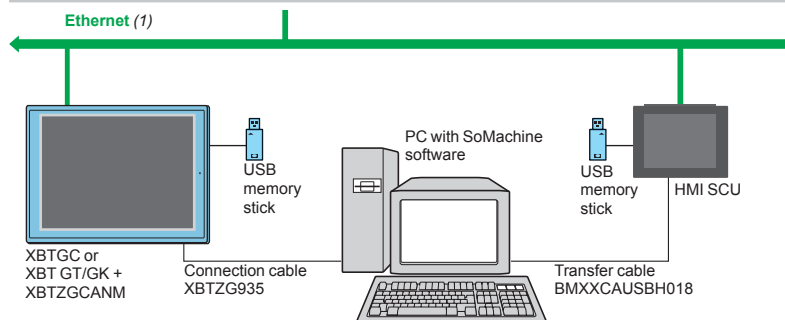
HMI controllers

Magelis XBTGC HMI controllers,
Magelis XBTGT, XBTGK Standard Advanced
panels with control

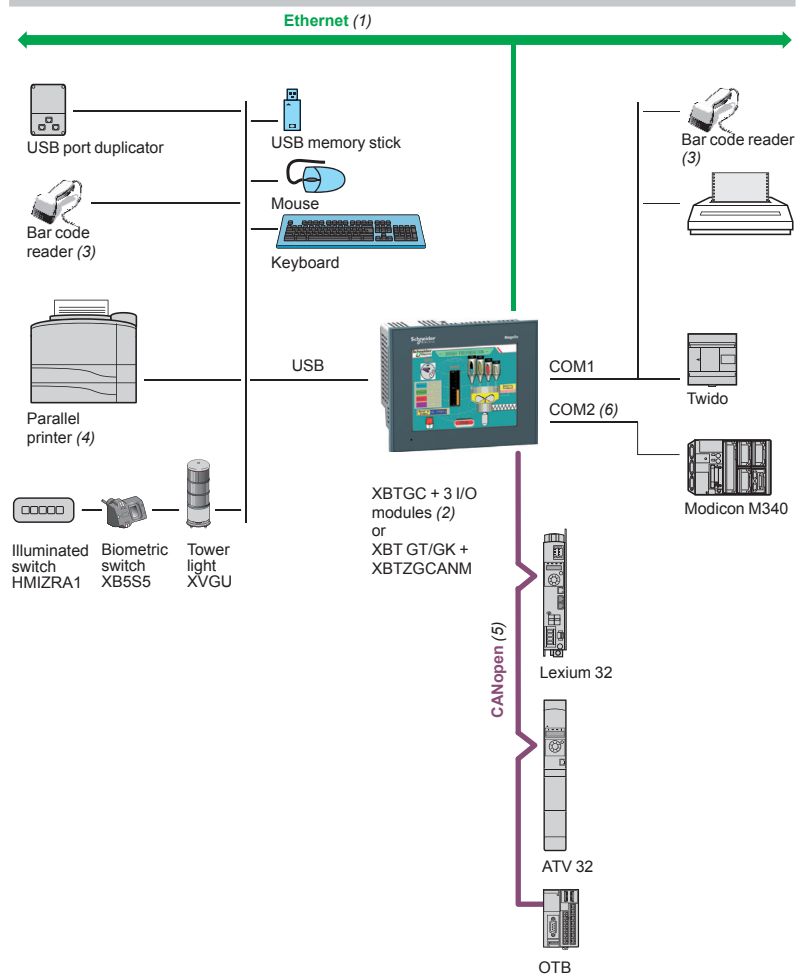
Operating modes for the terminals

The following illustrations show the equipment that can be connected to Magelis SCU and XBTGC controllers as well as to Magelis XBT GT/GK Advanced panels according to their two operating modes.

Edit mode



Run mode



(1) With HMISCU●●●, XBTGC2230T/U, XBTGT●●30, XBTGT●●40, XBTGK●●30.

(2) With XBTGC●●●●T/U, maximum of 2/3 I/O modules depending on model.

(3) Should be a Gryphon barcode reader made by DataLogic except for HMI SCU.

(4) Should be a Hewlett Packard printer via a USB/PIO converter.

(5) Requires:

- for XBTGC: XBTZGCCAN CANopen master module

- for XBT GT/GK: XBTZGCANM CANopen master module.

(6) With XBT GT/GK.

Magelis XBTGC HMI controllers
■ **Description**

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■ **References**

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- Separate parts page 2/3
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■ **Combinations**

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- I/O expansion modules page 2/7

Modicon Telefast cabling system for Magelis XBTGC HMI controllers

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- **Combinations involving modular bases and I/O expansion modules** page 2/9

■ **References**

- For expansion modules or XBTGC 2●● bases page 2/10
- Connection cables for XBTGC page 2/10
- Accessories page 2/10
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CANopen master bus module for Magelis XBTGC HMI controllers

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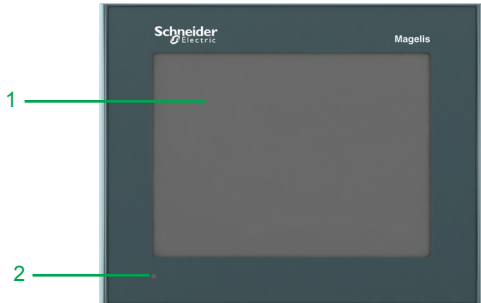
- **Reference** page 2/12

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HMI controllers

Magelis XBTGC HMI controllers with 5.7" screen

2

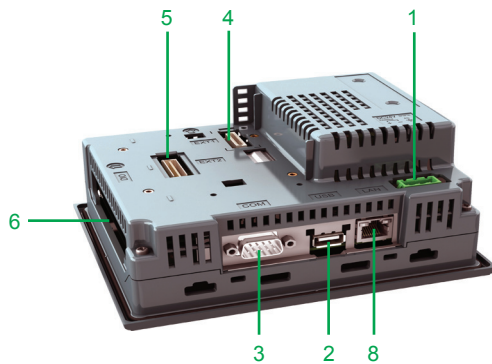


Description

Magelis XBTGC2330● HMI controllers

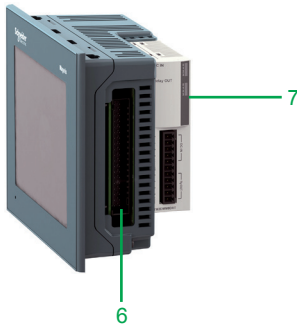
The front panel comprises:

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



The rear panel comprises:

- 1 A removable screw terminal block for 24 V $\overline{\text{---}}$ power supply
- 2 A type A USB master connector for peripheral connection and application transfer
- 3 A 9-way male SUB-D connector for RS 232C or RS 422/485 serial link to PLCs (COM1)
- 4 An interface for connecting the M238 logic controller I/O expansion module
- 5 An interface for connecting the CANopen bus master module (see page 2/13)
- 6 A removable terminal block for 16 digital inputs and 16 digital outputs
- 7 Digital (TM2D●●) or analog (TM2A●●) I/O expansion module (To be ordered separately, see pages 2/5 and 2/6). It is possible to combine a maximum of three I/O expansion modules, depending on the module type (see page 2/7).
- 8 An RJ45 connector for Ethernet TCP/IP 10BASE-T/100BASE-TX link.





XBTGC2●●●●



XBTZGUSB

Magelis XBTGC 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/lb
5.7" screen							
TFT 65 k colors	1 COM 1	16 MB	No	16 I/16 O source	1	XBTGC2330T	1.000/ 2.205
	1 USB			16 I/16 O sink	1	XBTGC2330U	1.000/ 2.205

Separate parts

Description	Compatibility	Size	Reference	Weight kg/lb
Protective sheets (5 peel-off sheets)	XBTGC2●●0	–	XBTZG62	0.200/ 0.441
Designation	Description	Length m/ft	Reference	Weight kg/lb
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)	1/3.281	XBTZGUSB	–
Remote USB port location for mini type B XBT terminal		–	XBTZGUSBB	–
XBTGC connection to CANopen master fieldbus	Connection via card on bus extension	–	XBTZGCCAN	–
Cable for transferring application to PC	USB TTL connector	2/6.561	XBTZG935	–

Replacement parts

Description	Used for	Reference	Weight kg/lb
Seals	XBTGC23●●	XBTZG52	0.030/ 0.066
USB fastenings	XBTGC 2●●0	XBTZGCLP4	–
Mounting kit	4 clips and screws (max. tightening torque: 0.5 Nm), included with all XBTGC terminals	XBTZGFIX	0.100/ 0.220
Spring clip for expansion modules on XBTGC	XBTGC2●●0 terminals	XBTZGCHOK	0.030/ 0.066
Power supply connector	XBTGC2●●●	XBTZGPWS1	0.030/ 0.066
Direct I/O connector	XBTGC2000	XBTZGDIO2	–

(1) Instruction sheet included with terminals. The setup documentation for XBTGC terminals is supplied in electronic format with the SoMachine software (please refer to our website www.schneider-electric.com).

HMI controllers

Magelis XBTGC HMI controllers

Digital I/O expansion modules

2



TM2DDI8DT



TM2DDO8T/DRA8RT



TM2DDO32K



TM2DDM24DRF

Digital I/O expansion modules

Digital I/O expansion modules are mounted on the rear of XBTGC controller bases. The maximum permitted number of digital and/or analog I/O modules depends on the type of XBTGC terminal and the thickness of the modules (see combination rule on page 2/7).

Digital input modules (1)

Input voltage	No. of channels	No. of common points	Connection	Thickness mm/in. (Type)	Reference	Weight kg/lb
24 V $\overline{\text{---}}$ sink/source	8	1	By removable screw terminal block (included)	23.5/0.925 (B)	TM2DDI8DT	0.085/ 0.187
	16	1	By removable screw terminal block (included)	23.5/0.925 (B)	TM2DDI16DT	0.100/ 0.220
			By HE 10 connector	23.5/0.925 (B)	TM2DDI16DK (2)	0.065/ 0.143
	32	2	By HE 10 connector	29.7/1.169 (C)	TM2DDI32DK (2)	0.100/ 0.220
120 V $\sim$	8	1	By removable screw terminal block (included)	23.5/0.925 (B)	TM2DAI8DT	0.081/ 0.179

Digital output modules (1)

Input voltage	No. of channels	No. of common points	Connection	Thickness mm/in. (Type)	Reference	Weight kg/lb
Transistors 24 V $\overline{\text{---}}$	8, sink 0.3 A	1	By removable screw terminal block (included)	23.5/0.925 (B)	TM2DDO8UT	0.085/ 0.187
	8, sink 0.5 A	1	By removable screw terminal block (included)	23.5/0.925 (B)	TM2DDO8TT	0.085/ 0.187
Transistors 24 V $\overline{\text{---}}$	16, sink 0.1 A	1	By HE 10 connector	17.6/0.693 (A)	TM2DDO16UK	0.070/ 0.154
	16, source 0.4 A	1	By HE 10 connector	17.6/0.692 (A)	TM2DDO16TK (2)	0.070/ 0.154
	32, sink 0.1 A	2	By HE 10 connector	29.7/1.169 (C)	TM2DDO32UK	0.105/ 0.231
	32, source 0.4 A	2	By HE 10 connector	29.7/1.169 (C)	TM2DDO32TK (2)	0.105/ 0.231
2 A relays (lth) 230 V $\sim$ /30 V $\overline{\text{---}}$	8 (NO contact)	2	By removable screw terminal block (included)	23.5/0.925 (B)	TM2DRA8RT	0.110/ 0.243
	16 (NO contact)	2	By removable screw terminal block (included)	23.5/0.925 (B)	TM2DRA16RT	0.145/ 0.320

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/in. (Type)	Reference	Weight kg/lb
8	4 I, 24 V $\overline{\text{---}}$ sink/source	4 relay O (NO contact) 2 A (lth)	Inputs: 1 common Outputs: 1 common	By removable screw terminal block (included)	23.5/0.925 (B)	TM2DMM8DRT	0.095/ 0.209
24	16 I, 24 V $\overline{\text{---}}$ sink/source	8 relay O (NO contact) 2 A (lth)	Inputs: 1 common Outputs: 2 common	By non removable spring terminal block	39.1/1.539 (D)	TM2DMM24DRF	0.140/ 0.309

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

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

HMI controllers

Magelis XBTGC HMI controllers

Analog I/O expansion modules

Analog I/O expansion modules

Analog I/O expansion modules are mounted on the rear of XBTGC controller bases. The maximum number of digital and/or analog I/O modules depends on the type of XBTGC terminal and the thickness of the modules (see combination rule on page 2/7).



TM2AMI2LT



TM2ARI8LRJ

Analog input modules (1)							
Channel type	Input range	Output range	Resolution	Connected by	Thickness mm/in. (Type)	Reference	Weight kg/lb
2 inputs	0...10 V 4...20 mA	—	12-bit	Removable screw terminal block (included)	23.5/0.925 (B)	TM2AMI2HT	0.085/ 0.187
	Thermocouple J, K, T	—	12-bit	Removable screw terminal block (included)	23.5/0.925 (B)	TM2AMI2LT	0.085/ 0.187
4 inputs	0...10 V 0...20 mA 2, 3 or 4-wire Pt100/1000 Ni100/1000 temperature probe	—	12-bit	Removable screw terminal block (included)	23.5/0.925 (B)	TM2AMI4LT	0.085/ 0.187
8 inputs	0...10 V 4...20 mA	—	10-bit	Removable screw terminal block (included)	23.5/0.925 (B)	TM2AMI8HT	0.085/ 0.187
	2 or 3-wire Pt100/1000 temperature probe	—	12-bit	RJ11 connector	23.5/0.925 (B)	TM2ARI8LRJ	—
				Removable screw terminal block (included)	23.5/0.925 (B)	TM2ARI8LT	—
	PTC/NTC	—	10-bit in NTC Detection of 2 thresholds in PTC	Removable screw terminal block (included)	23.5/0.925 (B)	TM2ARI8HT	0.085/ 0.187

(1) Characteristics: please refer to the "Modicon M238 logic controller" catalog.

HMI controllers

Magelis XBTGC HMI controllers

Analog I/O expansion modules



TM2AR18LT

Analog I/O expansion modules (continued)

Analog output modules (1)

1 output	—	0...10 V 4...20 mA	12-bit	Removable screw terminal block (included)	23.5/0.925 (B)	TM2AMO1HT	0.085/ 0.187
2 outputs	—	± 10 V	11-bit + sign	Removable screw terminal block (included)	23.5/0.925 (B)	TM2AVO2HT	0.085/ 0.187

Analog I/O modules (1)

2 inputs and 1 output	0...10 V 4...20 mA	0...10 V 4...20 mA	12-bit	Removable screw terminal block (included)	23.5/0.925 (B)	TM2AMM3HT	0.085/ 0.187
	Thermocouple J, K, T 2 or 3-wire Pt100 temperature probe	0...10 V 4...20 mA	12-bit	Removable screw terminal block (included)	23.5/0.925 (B)	TM2ALM3LT	0.085/ 0.187
4 inputs and 1 output	0...10 V 4...20 mA	0...10 V 4...20 mA	12-bit	Removable screw terminal block (included)	23.5 / 0.925 (B)	TM2AMM6HT	0.085/ 0.187

Separate parts

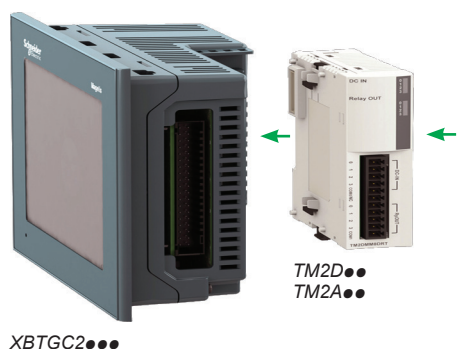
Designation	Description	Reference	Weight kg/lb
Earthing plate	Support equipped with 10 male Faston connectors for connecting the cable shielding (via 6.35 mm Faston connectors, not included) and the functional earths (FE)	TM2XMTGB	0.045/ 0.099
Mounting kit Sold in lots of 5	For plate or panel mounting of analog modules	TWDXMT5	0.065/ 0.143

(1) Characteristics: please refer to the "Modicon M238 logic controller" catalog.

HMI controllers

Magelis XBTGC HMI controllers

I/O expansion modules



XBTGC2 Combinations of two expansion modules

Combinations of 2 I/O expansion modules with XBTGC2

Type (1)	Type (1)	Total thickness (mm/in.)	
A	A	35.2/1.385	Permitted combinations
A	B	41.1/1.618	
B	B	47.0/1.850	
A	C	47.3/1.862	
B	C	53.2/2.094	
A	D	56.7/2.232	
C	C	59.4/2.339	
B	D	62.6/2.465	Prohibited combinations
C	D	68.8/2.709	
D	D	78.2/3.079	

XBTGC2 Combinations of three expansion modules

Combinations of 3 I/O expansion modules with XBTGC2

Type (1)	Type (1)	Type (1)	Total thickness (mm/in.)	
A	A	A	52.8/2.079	Permitted combinations with hook (2)
A	A	B	58.7/2.311	
A	B	B	64.6/2.543	
B	B	B	70.5/2.776	
All other combinations			—	Prohibited combinations

(1) For digital (TM2D) and analog (TM2A) I/O expansion module types, see pages 2/5 and 2/6:

- Type A: thickness 17.6 mm/0.692 in.
- Type B: thickness 23.5 mm/0.925 in.
- Type C: thickness 29.7 mm/1.169 in.
- Type D: thickness 39.1 mm/1.539 in.

(2) Hook included with product.

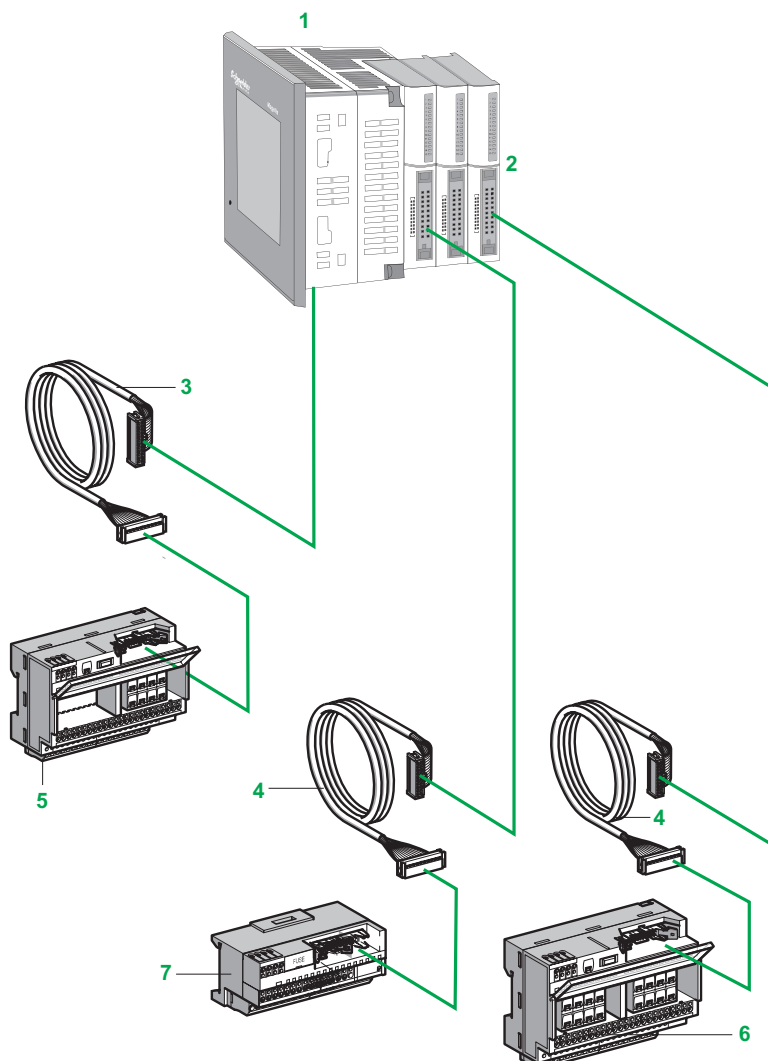
HMI controllers

Modicon Telefast® pre-wired system

for Magelis XBTGC HMI controllers

Connection sub-bases for digital I/O (integrated or on expansion modules)

Presentation



- 1 **XBTGC** equipped with 38-way direct I/O connectors. The modularity options offered have 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/6.56 ft. AWG 28/0.08 mm² cordsets, depending on the model:
 - For **XBTGC2...T/U**: **XBTZGABE2** preassembled cordset with two 20-way HE10 connectors and a 38-way Direct I/O-XBTGC connector
- 4 **ABFT20E...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 **XBTGC2...T**: **ABE7E16EPN20** or **ABE7E16SPN20** 16-channel sub-base
- 6 **ABE7E16SPN22** or **ABE7E16SRM20** 16-channel sub-base for digital outputs integrated or on expansion modules
- 7 **ABE7E16EPN20** or **ABE7E16SPN20** 16-channel sub-base for digital inputs or outputs integrated or on expansion modules

HMI controllers

Modicon Telefast pre-wired system

for Magelis XBTGC HMI controllers

Connection sub-bases for digital I/O (integrated or on expansion modules)

Combinations involving modular bases and I/O expansion modules

Integrated in Twido programmable controllers		XBTGC		Digital I/O expansion modules	
		Integrated digital I/O		Inputs	Outputs (source)
		XBTGC2●●●T		TM2DDI16DK (16 I)	TM2DDO16TK (16 O)
		16 I	16 O source	TM2DDI32DK (32 I)	TM2DDO32TK (32 O)
Connection block types		Direct I/O, 38-way		HE 10, 20-way	
Connection to XBTGC programmable HMI controller		XBTZGABE2		ABFT20E●●0 (HE 10, 20-way)	
Passive connection sub-bases					
20-channel	ABE7B20MPN2●				
16-channel	ABE7E16EPN20				
	ABE7E16SPN2●				
Output adaptor sub-bases					
20-channel	ABE7B20MRM20				
16-channel	ABE7E16SRM20				

 Compatible

 Incompatible

Note: Telefast cables and modules are not compatible with XBTGC 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

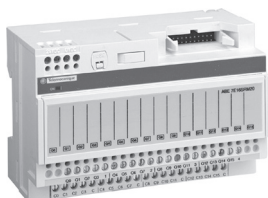
Modicon Telefast pre-wired system

for Magelis XBTGC HMI controllers

Connection sub-bases for digital I/O (integrated or on expansion modules)



ABE7E16EPN20



ABE7E16SRM20

References

For expansion modules or XBTGC 2... bases

Number of inputs	Input type	Compatibility	LED per chnnl	Fuse	Reference	Weight kg/lb
16	Sink 24V ---	TM2 DDI16DK/ DDI32K and XBTGC2...T	No	No	ABE7E16EPN20	0.430/ 0.948

Number of outputs	Output type	Compatibility	LED per chnnl	Fuse	Reference	Weight kg/lb
16	Source 24 V ---	TM2 DDO16TK/ DDO32TK and XBTGC2...T	No	No	ABE7E16SPN20	0.450/ 0.992
			Yes	Yes	ABE7E16SPN22	0.450/ 0.992
	Relay 24 V ---, 250 V~, 3 A		No	No	ABE7E16SRM20	0.430/ 0.948

Connection cables for XBTGC

Type of signal	Compatibility	Connection type	Gauge Cross-sect.	Length (1) m/ft	Reference	Weight kg/lb
Digital I/O	XBTGC2...0T	Direct I/O 38-way	2 x HE 10 20-way	2.0/6.562	XBTZGABE2	0.180/ 0.397
		HE 10 20-way	HE 10 20-way	0.5/1.640	ABFT20E050	0.060/ 0.132
	TM2 DDI16DK/ DDI32DK/ DDO16TK/ DDO32TK	HE 10 20-way	AWG 28 0.08 mm²	1.0/3.281	ABFT20E100	0.080/ 0.176
				2.0/6.562	ABFT20E200	0.140/ 0.308

Accessories

Designation	Number of shunted terminals	Characteristics	Order in multiples of	Unit reference	Weight kg/lb
Optional snap-on terminal blocks	20	—	5	ABE7BV20	0.060/ 0.132
	12+8	—	5	ABE7BV20TB	0.060/ 0.132
Quick-blow fuses 5 x 20, 250 V, UL	—	0.125 A	10	ABE7FU012	0.010/ 0.022
		0.315 A	10	ABE7FU030	0.010/ 0.022
		1 A	10	ABE7FU100	0.010/ 0.022
		2 A	10	ABE7FU200	0.010/ 0.022

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

HMI controllers

Modicon Telefast pre-wired system

for Magelis XBTGC HMI controllers

Connection sub-bases for digital I/O (integrated or on expansion modules)

References (continued)

Separate parts

Designation	Type	Compatibility	Reference	Weight kg/lb
Connectors Sold in lots of 5	HE10 female 26-way	TWD LMDA20DTK/ LMDA40DTK	TWDFCN2K26	—
	HE 10 female 20-way	TM2 DDI16DK/ DDI32DK/ DDO16TK/ DDO32TK	TWDFCN2K20	—
Screw terminals Sold in lots of 5	10-way	TM2 DDI●DT/DAI8DT/ DDO8●T/DRA●RT	TWDFTB2T10	—
	11-way	TM2 DMM8DRT/ AMI●●T/ARI8HT	TWDFTB2T11	—

Designation	Compatibility	Connection type		Gauge/ Cross-sect.	Length m/ft	Reference	Weight kg/lb
		Twido side	Other end				
Cables for digital I/O	TM2 DDI16DK/ DDI32DK/ DDO16TK/ DDO32TK	HE 10 20-way	Flying leads	AWG 22 0.035 mm ²	3.0/9.842	TWDFCW30K	0.405/ 0.892
					5.0/16.404	TWDFCW50K	0.670/ 1.477
Rolled ribbon cable	20 conductors	—	—	AWG 28 0.08 mm ²	20.0/65.617	ABFC20R200	1.310/ 2.888

2



XBTGC + XBTZGCCAN

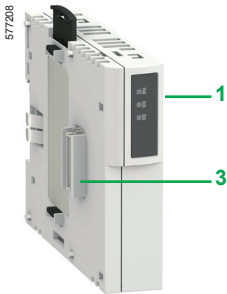
Presentation

The **XBTZGCCAN** module provides the CANopen bus master function for Magelis **XBTGC** HMI controllers.

SoMachine software is used to configure the CANopen machine bus for the Magelis XBTGC HMI controllers (please refer to our website www.schneider-electric.com).

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.

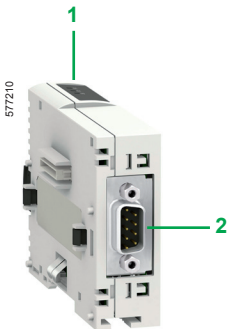


XBTZGCCAN

Description

The **XBTZGCCAN** 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 **XBTGC** HMI controller



Reference

Description	Reference	Weight kg/lb
CANopen bus master module for Magelis XBTGC HMI controller Conformity class M10	XBTZGCCAN	0.100/ 0.220

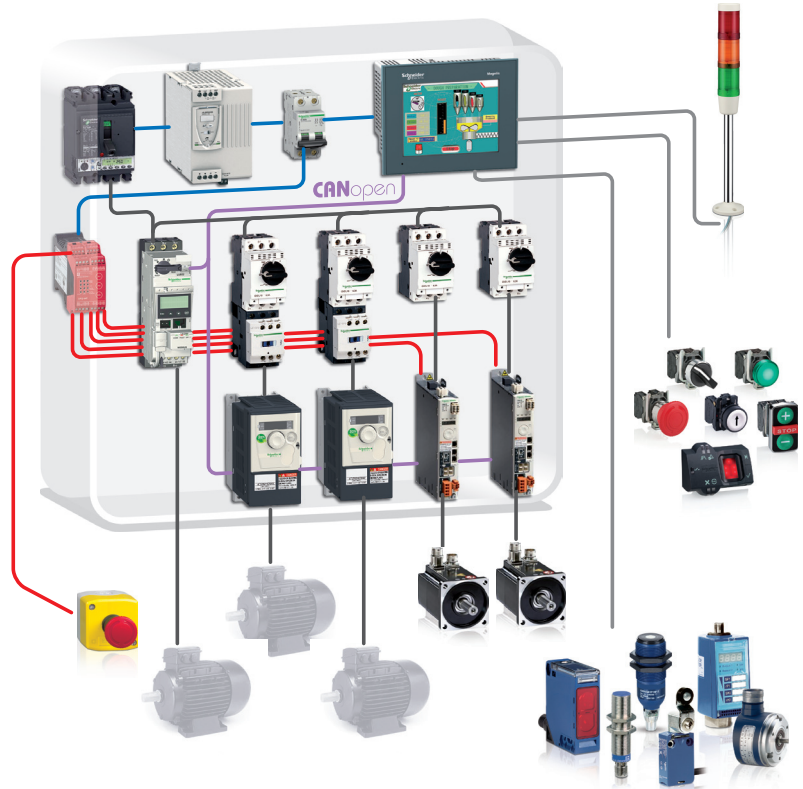
HMI controllers

CANopen bus

CANopen master bus module for Magelis

XBTGC HMI controllers

Example architecture



The above configuration shows an example architecture based on the Magelis **XBTGC** HMI controller.

The **XBTZGCCAN** expansion module provides the CANopen bus master function for the **XBTGC** HMI controller.

The CANopen bus is made up of a master station, the Magelis **XBTGC** 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 4/2.

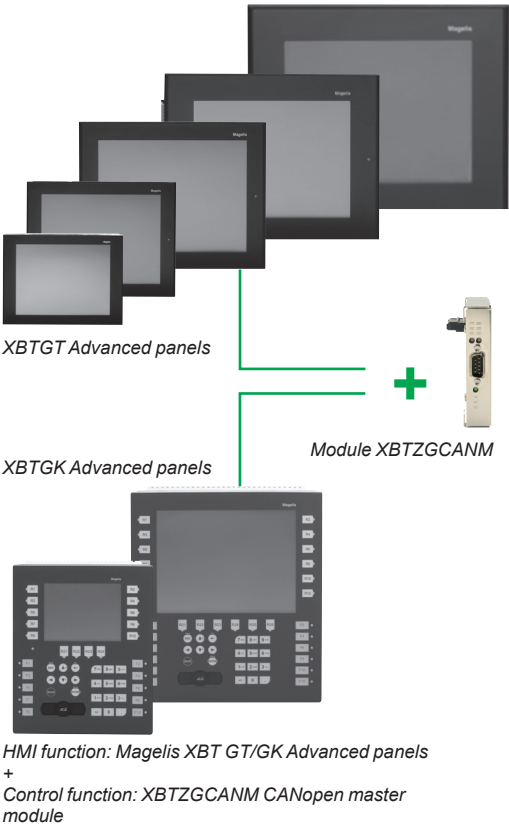
**CANopen bus module for Magelis XBT GT/GK
Advanced panels**

- **Presentation**..... page 3/2
- **Description**..... page 3/2
- **Reference** page 3/2
- **Architecture** page 3/3
- **References**
 - XBTGT color touch screen terminals page 3/4
 - XBTGK keypad/touch screen terminals page 3/5

HMI controllers

CANopen bus
CANopen master bus module for Magelis Standard
Advanced panels XBT GT/GK

3

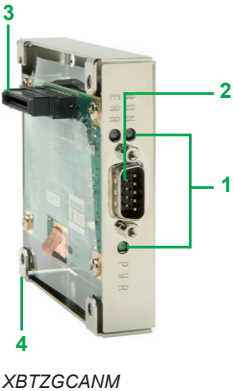


Presentation

The **XBTZGCANM** CANopen master bus module provides the control function for the Magelis **XBTGT** (5.7", 10.4", 12.1" or 15") and **XBTGK** (5.7" or 10.4") ranges of Standard Advanced panels (see page 4/2).

SoMachine software is used to configure the CANopen machine bus for this module (please refer to our website www.schneider-electric.com).

- 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.



Description

- The **XBTZGCANM** 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 connecting to the CANopen bus
 - 3 A connector for connecting to the rear of the Magelis XBT GT/GK Standard Advanced panels
 - 4 Positions for fixing screws

Reference

Description	Reference	Weight kg/lb
CANopen bus master module for Magelis XBT GT/GK Standard Advanced panels Conformity class M10	XBTZGCANM	0.100/ 0.220

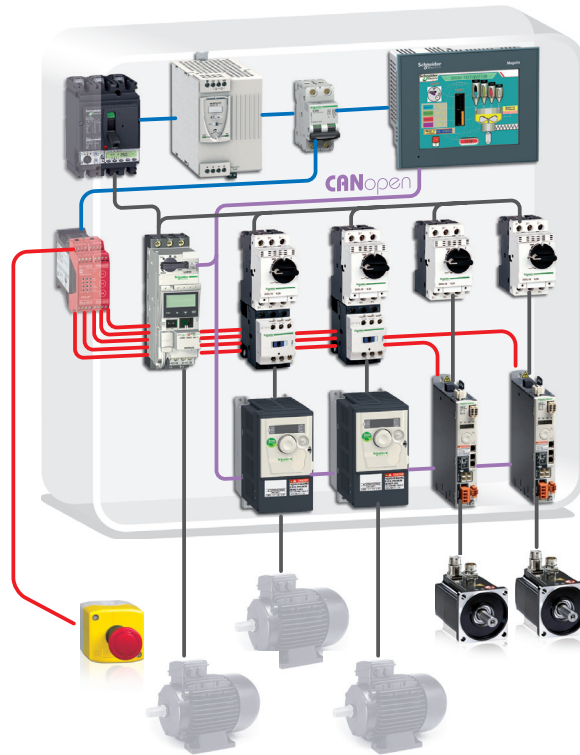
HMI controllers

CANopen bus

CANopen master bus module for Magelis Standard

Advanced panels XBT GT/GK

Example architecture



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

The **XBTZGCANM** 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.

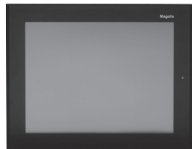
The CANopen bus is used to manage various slaves such as:

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

For an example connection from a *Distributed CANopen Optimized* architecture, see page 4/2.



XBTGT4230/4300



XBTGT5300



XBTGT6300



XBTGT7340

XBTGT color touch screen terminals compatible with the XBTZGCANM CANopen master module (1) (2)

Screen type	No. of ports	Application memory capacity	Compact Flash memory	Composite video input	Embedded Ethernet	Reference	Weight kg/lb
5.7" multifunction QVGA screen							
High Brightness TFT	1 COM 1 1 COM 2 1 USB	16 MB	Yes	No	1	XBTGT2930	1.000/ 2.205
5.7" multifunction VGA screen							
TFT	1 COM 1 1 COM 2 2 USB	32 MB	Yes	No	1	XBTGT2430	—
7.5" multifunction VGA screen							
TFT	1 COM 1 1 COM 2 1 USB	32 MB	Yes	Yes	1	XBTGT4340	1.800/ 3.968
Multifunction 10.4" VGA screen							
TFT	1 COM 1 1 COM 2 2 USB	32 MB	Yes	Yes	1	XBTGT5340	2,500/ 5.512
Multifunction 12.1" SVGA screen							
TFT	1 COM 1 1 COM 2 2 USB	32 MB	Yes	Yes	1	XBTGT6340	3,000/ 6.614
Multifunction 15" XGA screen							
TFT	1 COM 1 1 COM 2 2 USB	32 MB	Yes	Yes	1	XBTGT7340	5,600/ 12.346

(1) Terminals supplied with mounting kit (screw clips), locking device for USB connectors and instruction sheet. The setup documentation for XBTGT terminals is supplied in electronic format with SoMachine software, please refer to our website www.schneider-electric.com.

(2) All data relating to Magelis XBTGT Standard Advanced panels is available on our website www.schneider-electric.com.



XBTGK2120 / 2330



XBTGK5330

XBTGK keypad/touch screen terminals compatible with the XBTZGCANM CANopen master module ⁽¹⁾ ⁽²⁾

Screen type	No. of ports	Application memory capacity	Compact Flash memory	Video input	No. of Ethernet ports	Reference	Weight kg/lb
5.7" multifunction screen							
STN Black and white	1 COM 1 1 COM 2 1 USB	32 MB	Yes	No	-	XBTGK2120	—
5.7" multifunction screen							
TFT color mode	1 COM 1 1 COM 2 1 USB	32 MB	Yes	No	1	XBTGK2330	—
10.4" multifunction screen							
TFT color mode	1 COM 1 1 COM 2 2 USB	32 MB	Yes	No	1	XBTGK5330	—

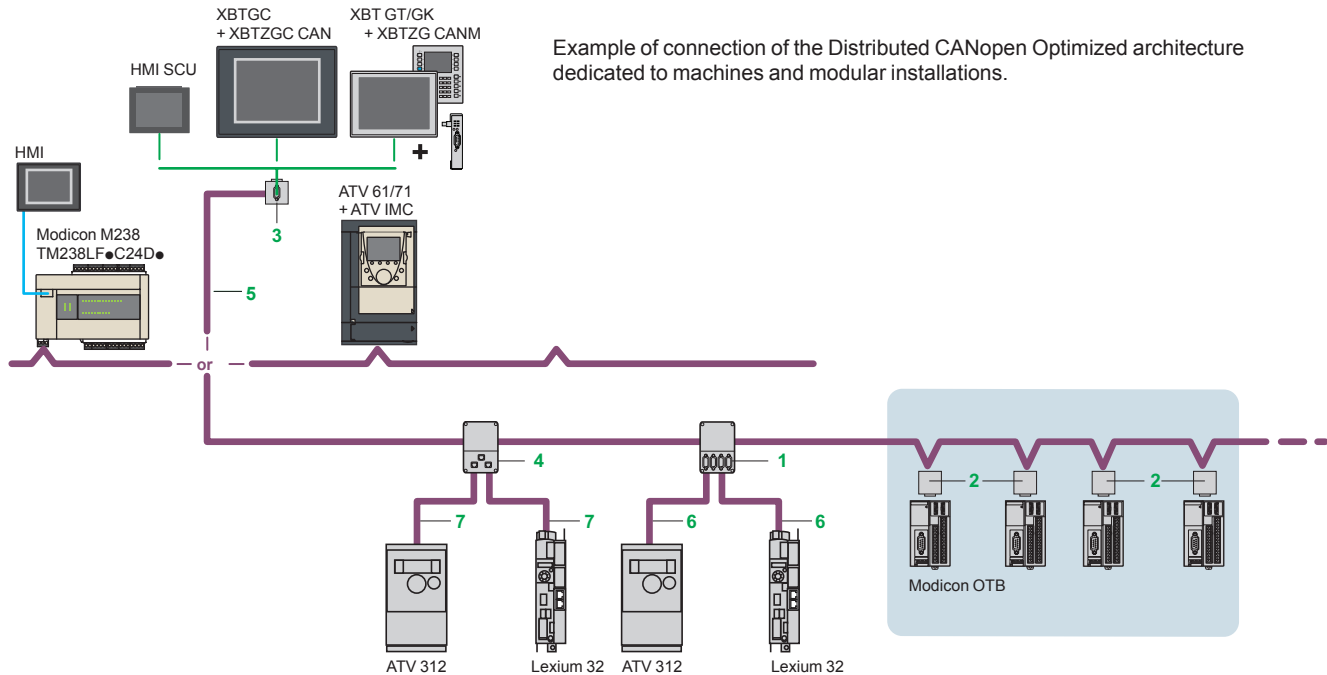
(1) Terminals supplied with mounting kit (spring clips), locking device for USB connectors, customizable label sheets and instruction sheet.

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

Bus CANopen module wiring system

- Optimized CANopen architecture page 4/2
- References
 - Standard tap junctions and connectors page 4/2
 - IP 20 standard cables and preassembled cordsets page 4/3
 - IP 20 connection accessories page 4/3

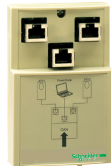
Optimized CANopen architecture



References



TSXCANTDM4



VW3CANTAP2



TSXCANKCDF180T

TSXCANKCDF90T



TCSCAR013M120

TSXCANKCDF90TP

Standard tap junctions and connectors

Designation	Description	Item no.	Length m/ft	Unit reference	Weight kg/lb
IP 20 CANopen tap junction	4 SUB-D ports. Screw terminal block for connecting the trunk cables Line termination	1	—	TSXCANTDM4	0.196/ 0.432
IP 20 CANopen connectors (9-way female SUB-D)	Right angle	2	—	TSXCANKCDF90T	0.046/ 0.101
	Straight (1)	—	—	TSXCANKCDF180T	0.049/ 0.108
	Right angle with 9-way SUB-D for connecting a PC or diagnostic tool	3	—	TSXCANKCDF90TP	0.051/ 0.112
M12 IP 67 connectors	Male	—	—	FTXCN12M5	0.050/ 0.110
	Female	—	—	FTXCN12F5	0.050/ 0.110
IP 20 CANopen tap junction for Altivar and Lexium 32	2 RJ45 ports	4	—	VW3CANTAP2	0.250/ 0.551
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	—	0.6/1.968	TCSCTN026M16M	—
	Equipped with: - 2 RJ45 connectors for daisy chain connection of the CANopen bus - 1 preassembled cordset with RJ45 connector for connecting the drive	—	0.3/0.984	TCSCTN023F13M03	—
CANopen line terminators	For RJ45 connector Sold in lots of 2	—	—	TCSCAR013M120	—
	For screw terminal block connector Sold in lots of 2	—	—	TCSCAR01NM120	—

(1) To connect to the Altivar IMC card.

References (continued)

IP 20 standard cables and preassembled cordsets

Designation	Description	Item no.	Length m/ft	Unit reference	Weight kg/lb	
CANopen cables (2 x AWG 22 2 x AWG 24)	For standard environment (1), C€ marking: Low smoke zero halogen Flame-retardant (IEC 60332-1)	5	50/164.042	TSXCANCA50	4.930/ 10.869	
			100/328.083	TSXCANCA100	8.800/ 19.401	
			300/984.249	TSXCANCA300	24.560/ 54.146	
	For standard environment (1), UL certification, C€ marking: Flame-retardant (IEC 60332-2)	5	50/164.042	TSXCANCB50	3.580/ 7.893	
			100/328.083	TSXCANCB100	7.840/ 17.284	
			300/984.249	TSXCANCB300	21.870/ 48.216	
	For harsh environment (2) or mobile installation, C€ marking: Low smoke zero halogen. Flame-retardant (IEC 60332-1). Resistance to oils	5	50/164.042	TSXCANCD50	3.510/ 7.738	
			100/328.083	TSXCANCD100	7.770/ 17.130	
			300/984.249	TSXCANCD300	21.700/ 47.840	
	CANopen preassembled cordsets One 9-way female SUB-D connector at each end	For standard environment (1), C€ marking: Low smoke zero halogen. Flame-retardant (IEC 60332-1)	—	0.3/0.984	TSXCANCADD03	0.091/ 0.201
				1/3.281	TSXCANCADD1	0.143/ 0.315
				3/9.842	TSXCANCADD3	0.295/ 0.650
5/16.404				TSXCANCADD5	0.440/ 0.970	
For standard environment (1), UL certification, label marking C€: flame retardant (IEC 60332-2)		—	0.3/0.984	TSXCANCBDD03	0.086/ 0.190	
			1/3.281	TSXCANCBDD1	0.131/ 0.289	
			3/9.842	TSXCANCBDD3	0.268/ 0.591	
			5/16.404	TSXCANCBDD5	0.400/ 0.882	
CANopen preassembled cordsets	Cordsets with one 9-way female SUB-D connector and one RJ45 connector	6	0.5/1.640	TCSCCN4F3M05T	0.100/ 0.220	
			1/3.281	TCSCCN4F3M1T	0.100/ 0.220	
				VW3M3805R010 (3)	0.100/ 0.220	
			3/9.842	VW3M3805R010 (3)	0.300/ 0.661	
				TCSCCN4F3M3T	0.160/ 0.353	
	Cordsets with two 9-way SUB-D connectors, one male and one female	—	0.5/1.640	TLACDCBA005	0.100/ 0.220	
			1.5/4.921	TLACDCBA015	0.120/ 0.265	
			3/9.842	TLACDCBA030	0.190/ 0.419	
			5/16.404	TLACDCBA0	0.350/ 0.772	
			IP 20 connection accessories			
CANopen connector for Altivar 71 (4)	9-way female SUB-D. Switch for line termination. Cables exit at 180°	—	—	VW3CANKCDF180T	0.100/ 0.220	
Adaptor for Altivar 71 drive	SUB-D to RJ45 CANopen adaptor	—	—	VW3CANA71	0.100/ 0.220	
CANopen preassembled cordsets	1 RJ45 connector at each end	7	0.3/0.984	VW3CANCARR03	0.100/ 0.220	
			1/3.281	VW3CANCARR1	0.100/ 0.220	
CANopen bus adaptor for Lexium 17D	Hardware interface for link conforming to the CANopen standard + 1 connector for connecting a PC terminal	—	—	AM02CA001V000	0.110/ 0.243	
Y-connector	CANopen/Modbus	—	—	TCSCCTN011M11F	0.100/ 0.220	



VW3CANA71



AM02CA001V000



FTXDP21●●

(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 71H●●M3, ATV 71HD11M3X, HD15M3X, ATV 71H075N4... HD18N4 drives, this connector can be replaced by the TSXCANKCDF180T connector.

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ABE7BV20TB	2/10	TM2DDO32TK	2/4	XBTGT5340	3/4
ABE7E16EPN20	2/10	TM2DDO32UK	2/4	XBTGT6340	3/4
ABE7E16SPN20	2/10	TM2DMM8DRT	2/4	XBTGT7340	3/4
ABE7E16SPN22	2/10	TM2DMM24DRF	2/4	XBTZG52	2/3
ABE7E16SRM20	2/10	TM2DRA8RT	2/4	XBTZG62	2/3
ABE7FU012	2/10	TM2DRA16RT	2/4	XBTZG935	2/3
ABE7FU030	2/10	TM2XMTGB	2/6	XBTZGABE2	2/10
ABE7FU100	2/10	TSXCANCA50	4/3	XBTZGCCAN	2/3
ABE7FU200	2/10	TSXCANCA100	4/3	XBTZGCHOK	2/3
ABFC20R200	2/11	TSXCANCA300	4/3	XBTZGCLP4	2/3
ABFT20E050	2/10	TSXCANCADD1	4/3	XBTZGDIO2	2/3
ABFT20E100	2/10	TSXCANCADD03	4/3	XBTZGFIX	2/3
ABFT20E200	2/10	TSXCANCADD3	4/3	XBTZGPWS1	2/3
AM02CA001V000	4/3	TSXCANCADD5	4/3	XBTZGUSB	2/3
F		TSXCANC50	4/3	XBTZGUSBB	2/3
FTXCN12F5	4/2	TSXCANCB100	4/3		
FTXCN12M5	4/2	TSXCANCB300	4/3		
T		TSXCANCBDD1	4/3		
TCSCAR01NM120	4/2	TSXCANCBDD03	4/3		
TCSCAR013M120	4/2	TSXCANCBDD3	4/3		
TCSCCN4F3M1T	4/3	TSXCANCBDD5	4/3		
TCSCCN4F3M3T	4/3	TSXCANCD50	4/3		
TCSCCN4F3M05T	4/3	TSXCANCD100	4/3		
TCSCTN011M11F	4/3	TSXCANCD300	4/3		
TCSCTN023F13M03	4/2	TSXCANKCDF90T	4/2		
TCSCTN026M16M	4/2	TSXCANKCDF90TP	4/2		
TLACDCBA0	4/3	TSXCANKCDF180T	4/2		
TLACDCBA005	4/3	TSXCANTDM4	4/2		
TLACDCBA015	4/3	TWDFCN2K20	2/11		
TLACDCBA030	4/3	TWDFCN2K26	2/11		
TM2ALM3LT	2/6	TWDFCW30K	2/11		
TM2AMI2HT	2/5	TWDFCW50K	2/11		
TM2AMI2LT	2/5	TWDFTB2T10	2/11		
TM2AMI4LT	2/5	TWDFTB2T11	2/11		
TM2AMI8HT	2/5	TWDXMT5	2/6		
TM2AMM3HT	2/6	V			
TM2AMM6HT	2/6	VW3CANA71	4/3		
TM2AMO1HT	2/6	VW3CANCARR1	4/3		
TM2ARI8HT	2/5	VW3CANCARR03	4/3		
TM2ARI8LRJ	2/5	VW3CANKCDF180T	4/3		
TM2ARI8LT	2/5	VW3CANTAP2	4/2		
TM2AVO2HT	2/6	VW3M3805R010	4/3		
TM2DAI8DT	2/4	VW3M3805R010	4/3		
TM2DDI8DT	2/4	X			
TM2DDI16DK	2/4	XBTGC2330T	2/3		
TM2DDI16DT	2/4	XBTGC2330U	2/3		
TM2DDI32DK	2/4	XBTGK2120	3/5		
TM2DDO8TT	2/4	XBTGK2330	3/5		
TM2DDO8UT	2/4	XBTGK5330	3/5		
		XBTGT2430	3/4		

Human Machine Interface



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