

# Human/Machine Interface

Magelis™ XBTGTW/HMIGTW Advanced open touchscreen panels

Catalog

February 2015



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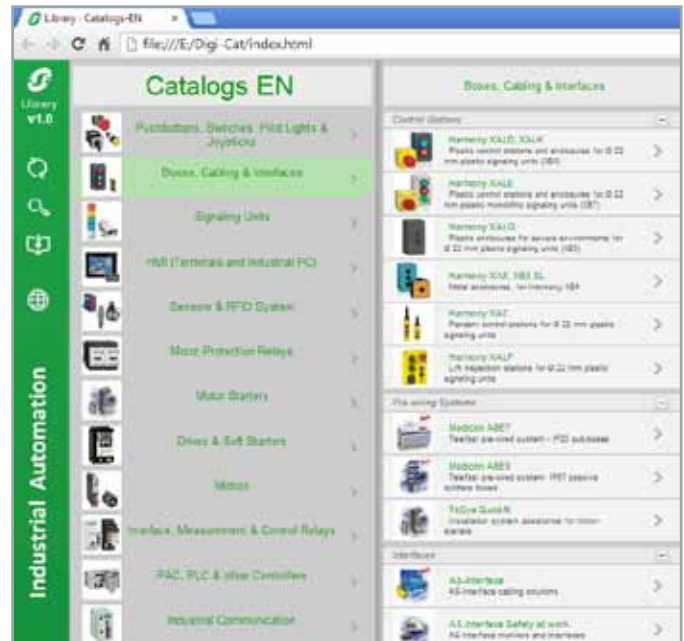
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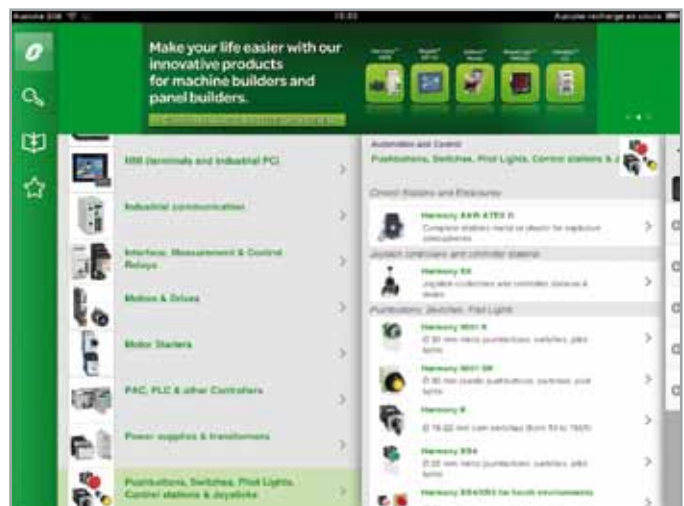
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# General contents

- Selection guide* ..... *page 2*
  
- **Advanced open touchscreen panels**
  - General..... *page 6*
  - Functions..... *page 7*
  - Description ..... *page 9*
  - XBTGTW terminal references.....*page 11*
  - Separate and spare part references ..... *page 12*
  - Connection accessories ..... *page 13*
  
- **Product reference index** ..... *page 16*

Operator dialogue terminals

Advanced touch panels

Magelis™ GT

|                      |                             |                                                                                                          |                                                                                                                        |
|----------------------|-----------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Applications         |                             | Display of text messages, graphic objects and synoptic views                                             |                                                                                                                        |
|                      |                             | Control and configuration of data                                                                        |                                                                                                                        |
| Type of terminal     |                             | 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)              |                                                                                                                        |
|                      | Capacity                    | 5.7" (color)                                                                                             | 7.5" (color)                                                                                                           |
| Data entry           | Via touch screen            |                                                                                                          |                                                                                                                        |
|                      | –                           |                                                                                                          |                                                                                                                        |
|                      | –                           |                                                                                                          |                                                                                                                        |
|                      | –                           |                                                                                                          |                                                                                                                        |
| Memory capacity      | Applications                | 16 MB Flash EPROM (3)                                                                                    |                                                                                                                        |
|                      | Expansion                   | 32 MB Flash EPROM                                                                                        |                                                                                                                        |
|                      |                             | By means of 128 MB, 256 MB, 512 MB, 1 GB or 2 GB CF card (except XBT GT2110)                             |                                                                                                                        |
| 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 (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) |
|                      |                             |                                                                                                          |                                                                                                                        |
| 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) and RS 485 (COM2)                                                              |                                                                                                                        |
|                      | USB ports                   | 1 (3)                                                                                                    | 1                                                                                                                      |
|                      | Bus and networks            | Modbus Plus and Fipway with USB gateway, PROFIBUS DP and Device Net with optional card                   |                                                                                                                        |
|                      | Printer link                | Ethernet TCP/IP (10BASE-T/100BASE-TX) (1)                                                                |                                                                                                                        |
|                      |                             | 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 (133 MHz RISC CPU) (3)                                                                           | Magelis (266 MHz RIS CPU)                                                                                              |
| Type of terminal     |                             | XBTGT22/23/24/29                                                                                         | XBTGT43                                                                                                                |
| Pages                |                             | Please refer to our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> . |                                                                                                                        |

(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.

|                                                                                                                        |                                          |               |
|------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------|
| Display of text messages, graphic objects and synoptic views                                                           |                                          |               |
| Control and configuration of data                                                                                      |                                          |               |
| Touch screen Advanced panels                                                                                           |                                          |               |
|                                                                                                                        |                                          |               |
|                                                                                                                        |                                          |               |
| Backlit color TFT LCD (640 x 480 pixels or 800 x 600 pixels) (4)                                                       | Backlit color TFT LCD (800 x 600 pixels) |               |
|                                                                                                                        | 10.4" (color)                            | 12.1" (color) |
| 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 analog 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)                                                                                              |                                          |               |
| XBTGT53/54                                                                                                             | XBTGT63                                  | XBTGT73       |
| Please refer to our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .               |                                          |               |

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                               |
|                      |                             | Dynamic function keys                                                                                                        | 14                               |
|                      |                             | 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)<br>RS 485 (COM2)                                                                                   |                                  |
|                      | USB ports                   | 1                                                                                                                            | 2                                |
|                      | Bus and networks            | Modbus Plus, Fipway with USB gateway, PROFIBUS DP and Device Net with optional card<br>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                          |
| Pages                |                             | Please refer to our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .                     |                                  |

(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) |
| 5.7" (color)                                                                                             |  | 10.4" (color)                                                                                          | 12" (color)                      |
| Color TFT LCD (1024 x 768 pixels)                                                                        |  | Color TFT LCD (1024 x 768 pixels)                                                                      |                                  |
| 15" (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)                   |
| 1                                                                                                        |  | 2+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)                                                                                |  | HMIGTW5354                                                                                             | XBTGTW652                        |
|                                                                                                          |  |                                                                                                        | HMIGTW7354 HMIGTW73545 (6)       |
| Please refer to our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> . |  | 11                                                                                                     |                                  |

(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.

# Operator dialogue terminals

Advanced open touchscreen panels

Magelis™ GTW

## Presentation

The Magelis Standard Advanced panels offer a range of touch screen/open terminals (GTW) of sizes 10.4", 12" and 15", with Windows XP Embedded operating system for open access to new automation functions.

## Operation

The XBTGTW terminals are available in multifunction levels. They 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 Standard Advanced panels can be configured using Vijeo Designer software in a Windows XP Professional and Windows 7 Professional 32/64-bit environment.

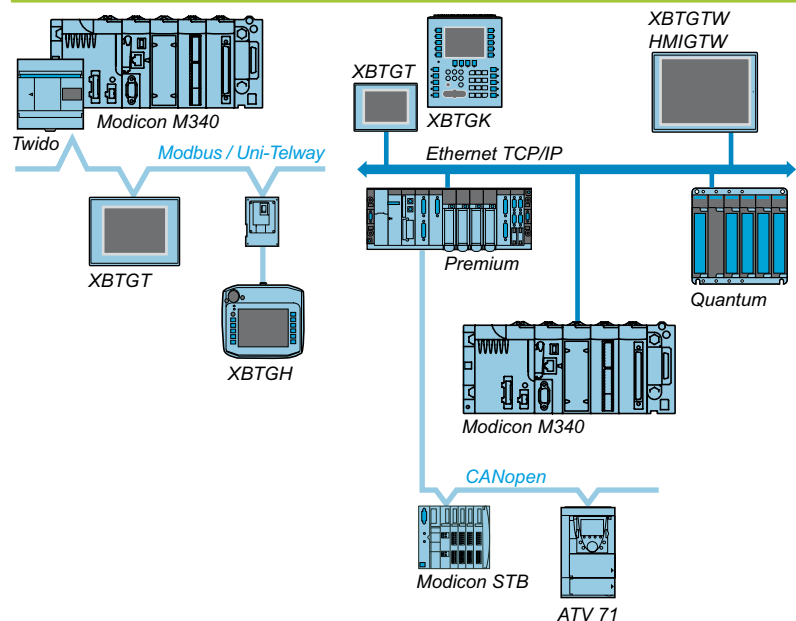
Vijeo Designer software boasts an advanced user interface with many configurable windows, enabling projects to be developed quickly and easily. This version can process composite video signals from a camera or camcorder.

Please refer to HMI software catalogs available in [www.schneider-electric.com](http://www.schneider-electric.com).



Display of a video sequence

## 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).



#### Functions

Magelis Standard 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 (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 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.

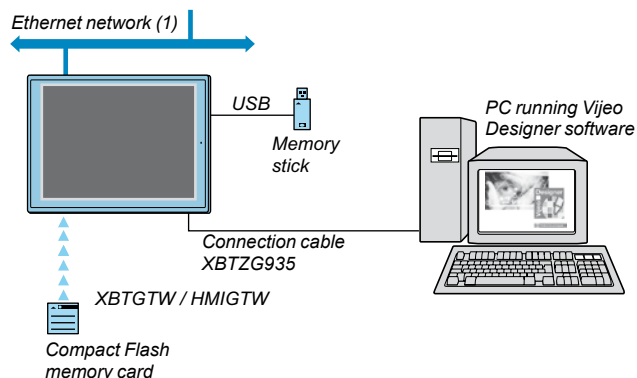
The flexibility of Windows XP Embedded on touch screen/open Standard Advanced panels Magelis GTW terminals simultaneously allows:

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

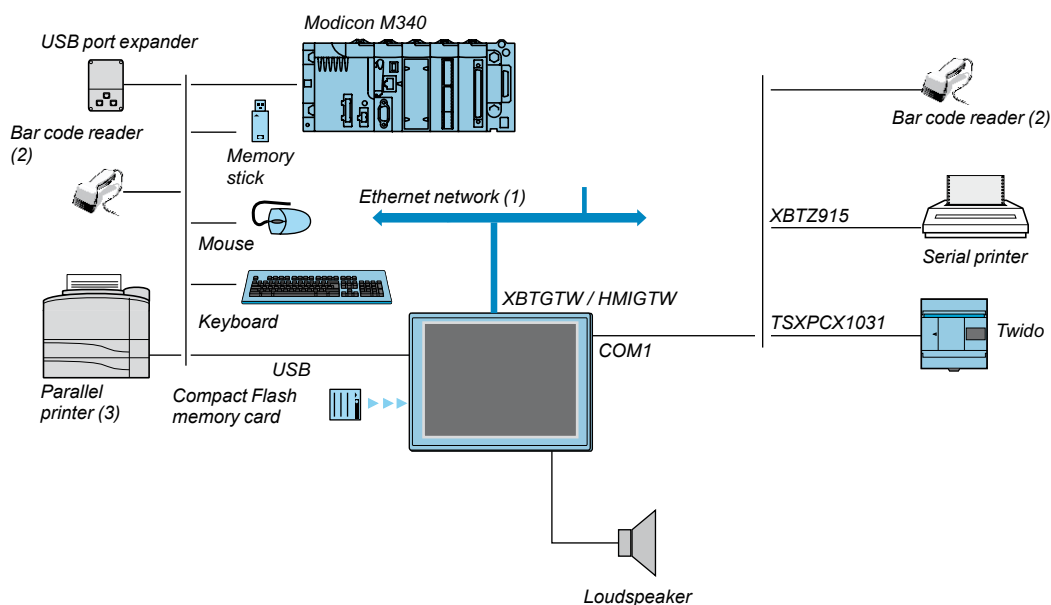
## Panel operating modes

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 XBTGTW●●● and HMIGTW●●●.
- (2) Validated with DataLogic Gryphon bar code reader.
- (3) Validated with Hewlett Packard printer via USB/PIO converter.

## 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).

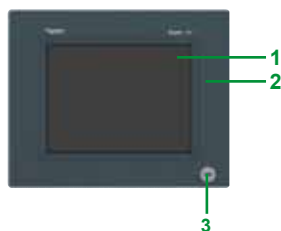
For further information on this service offer, please contact our Customer Care Centre.



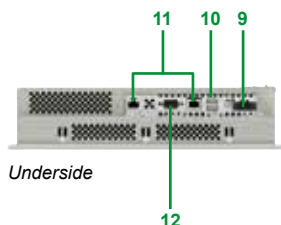
# Operator dialogue terminals

Advanced open touchscreen panels

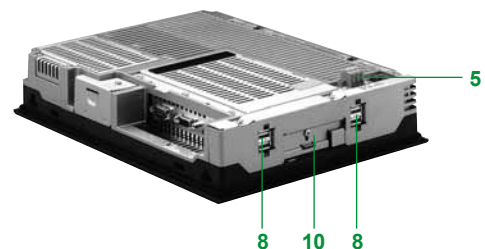
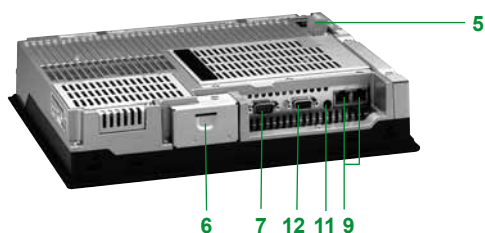
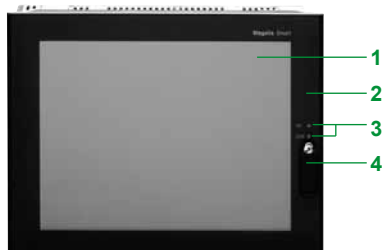
Magelis™ GTW with 10.4" or 12" screen



Rear panel



Underside



## Description

### Standard Advanced panel Magelis Multifunction 10.4" HMIGTW5354

#### Front panel screen

The touch screen front panel of terminal **HMIGTW5354** comprises:

- 1 A 10.4" SVGA active matrix color TFT LCD screen (maximum display area 800 x 600 points) with high-definition analog 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 **HMIGTW5354** 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)  $\geq 2$  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  $\overline{\text{---}}$  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" XBTGTW652

#### Front panel screen

The touch screen front panel of terminal **XBTGTW652** comprises:

- 1 A 12" SVGA active matrix color TFT LCD screen (maximum display area 800 x 600 points) with high-definition analog 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  $\overline{\text{---}}$  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
- 12 A 9-way male SUB-D connector marked COM1 for RS 232 serial link

(1) To be ordered separately (refer to "Magelis Industrial PCs" catalog available in our website [www.schneider-electric.com](http://www.schneider-electric.com)).

## Operator dialogue terminals

Advanced open touchscreen panels

Magelis™ GTW with 15" screen

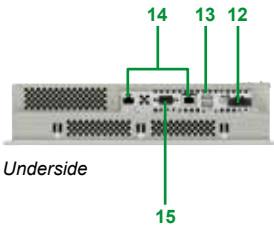
Software pre-installed on Magelis XBTGTW/HMIGTW



15" front panels, stainless steel and aluminium



Rear panel



Underside

### Description

Standard Advanced panels Magelis Multifunction 15" HMIGTW7354/ HMIGTW73545

#### Front panel screen

The touch screen front panel of terminal **HMIGTW7354** and **HMIGTW73545** comprises:

- 1 A 15" XGA active matrix color TFT LCD screen (maximum display area 1024 x 768 points) with high-definition analog touch panel
- 2 A USB 2.0 port (1 A 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). Simplifies cleaning because of the absence of USB port on front panel (conforms to food and beverage processing machines standard EN 1672-2). The front panel is fitted with specific seals (standard FDA 21 CFR 177.206).

#### Rear panel

The rear panel of **HMIGTW7354** and **HMIGTW73545** 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 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 XBTGTW and HMIGTW 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 (refer to "Magelis Industrial PCs" catalog available in our website [www.schneider-electric.com](http://www.schneider-electric.com)).

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

# Operator dialogue terminals

Advanced open touchscreen panels

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



HMIGTW5354



XBTGTW652



HMIGTW7354

## Open touch screen terminals <sup>(1)</sup>

| Type of screen                     | Number of ports | Application memory capacity on primary storage device | Secondary storage device | Video input | Number of Ethernet ports | Reference          | Weight<br>kg/<br>lb |
|------------------------------------|-----------------|-------------------------------------------------------|--------------------------|-------------|--------------------------|--------------------|---------------------|
| <b>Multifunction, 10.4" screen</b> |                 |                                                       |                          |             |                          |                    |                     |
| TFT                                | 1 COM1<br>3 USB | 2 GB<br>CF card for system and application            | SD<br>card ≥ 4 GB        | No          | 2                        | <b>HMIGTW5354</b>  | 4.100/<br>9.039     |
| <b>Multifunction, 12" screen</b>   |                 |                                                       |                          |             |                          |                    |                     |
| TFT                                | 1 COM1<br>5 USB | 2 GB<br>CF card for system and application            | CF<br>card ≥ 1 GB        | No          | 2                        | <b>XBTGTW652</b>   | 3.800/<br>8.378     |
| <b>Multifunction, 15" screen</b>   |                 |                                                       |                          |             |                          |                    |                     |
| TFT                                | 1 COM1<br>3 USB | 2 GB<br>CF card for system and application            | SD<br>card ≥ 4 GB        | No          | 2                        | <b>HMIGTW7354</b>  | 6.100/<br>13.448    |
|                                    | 1 COM1<br>2 USB | 2 GB<br>CF card for system and application            | SD<br>card ≥ 4 GB        | No          | 2                        | <b>HMIGTW7354S</b> | 6.300/<br>13.889    |

(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 (refer to HMI software catalogs available in [www.schneider-electric.com](http://www.schneider-electric.com)).

# Operator dialogue terminals

Magelis™ Advanced panels

Separate and spare parts for terminals

Magelis™ XBTGTW

## Separate components

| Description                              | Characteristics | Compatible with terminals | Reference     | Weight<br>kg/<br>lb |
|------------------------------------------|-----------------|---------------------------|---------------|---------------------|
| Compact Flash memory cards               | 4 GB, blank     | XBTGTW only               | MPCYN00CF400N | —                   |
| SD memory card                           | 4 GB, blank     | HMIGTW only               | HMIZSD4G      | —                   |
| Protective sheets<br>(5 peel-off sheets) | —               | HMIGTW7353                | MPCYK50SPSKIT | 0.200/<br>0.441     |
|                                          |                 | XBTGTW652                 | MPCYK20SPSKIT | —                   |



XBTZGUSB

| Description                                | Description                                                                                                                                       | Length<br>m/ft | Reference | Weight<br>kg/<br>lb |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|---------------------|
| Remote USB port for terminals<br>XBTGTW●●● | 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/<br>3.28     | XBTZGUSB  | —                   |
| Remote USB port for terminals<br>XBTGTW●●● | 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/<br>3.28     | XBTZGUSBB | —                   |

## Spare parts

| Description                                 | For use with terminals | Reference | Weight<br>kg/<br>lb |
|---------------------------------------------|------------------------|-----------|---------------------|
| Power supply connector<br>Sold in lots of 5 | XBTGTW●●●              | XBTZGPWS2 | —                   |

## Operator dialogue terminals

Magelis™ Advanced panels

Connection accessories for terminals

Magelis™ XBTGTW

## Cables for application transfer - Terminal to PC

| Type of terminal<br>(terminal end connector) | Connector<br>(PC end) | Type | Length<br>m/ft | Reference<br>(1) | Weight<br>kg/<br>lb |
|----------------------------------------------|-----------------------|------|----------------|------------------|---------------------|
| XBTGTW                                       | USB                   | TTL  | 2/<br>6.56     | XBTZG935         | 0.290/<br>0.639     |

## Printer connection cables

| Type of printer<br>(2)                                       | Connector<br>(printer end) | Type           | Length<br>m/ft | Reference | Weight<br>kg/<br>lb |
|--------------------------------------------------------------|----------------------------|----------------|----------------|-----------|---------------------|
| Serial printer for<br>XBTGTW terminals<br>(except XBTGT1●●●) | SUB-D female<br>25-way     | RS 232C (COM1) | 2.5/<br>8.20   | XBTZ915   | 0.200/<br>0.441     |
| Serial printer for<br>XBTGTW terminals                       | USB                        | RS 232C (COM1) | 1.80/<br>5.90  | HMIZURS   | —                   |

| Description                                     | Type of connector<br>(automation product end) | Physical link<br>(XBT or HMIGTO<br>terminal end)         | Length<br>m/ft | Reference    | Weight<br>kg/<br>lb |
|-------------------------------------------------|-----------------------------------------------|----------------------------------------------------------|----------------|--------------|---------------------|
| Adaptors for<br>XBTGTW (COM1 and<br>COM2 ports) | 25-way SUB-D<br>connector                     | 9-way<br>SUB-D connector, RS 485<br>on XBT terminal only | 0.2/<br>0.66   | XBTZG909 (3) | —                   |
|                                                 |                                               | 9-way<br>SUB-D connector,<br>RS 232C                     | 0.2/<br>0.66   | XBTZG919     | —                   |

(1) Cable included (depending on model) with Vijeo Designer software packages (refer to HMI software catalogs available in our website [www.schneider-electric.com](http://www.schneider-electric.com)).

(2) Parallel printer (see page 8).

(3) This adaptor cannot be used with Magelis GTO terminals.

## 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 | XBTGTW●●         | RS 232  | COM1       | 2.5/8.20              | TSXPCX1031                     | –                          |
| Modicon M340<br>Modicon M238<br>Modicon M258    | USB Mini-B                                 | Terminal port          | XBTGTW           | USB     | USB type A | 1.8/5.91<br>4.5/14.76 | BMXXCAUSBH018<br>BMXXCAUSBH045 | 0.230/0.507<br>–           |
| Modicon Quantum                                 | 9-way male SUB-D                           | Modbus                 | XBTGTW           | RS 232C | COM1       | 2.5/8.20<br>3.7/12.14 | XBTZ9710 + (3)<br>990NAA26320  | 0.210/0.463<br>0.290/0.639 |
| Modicon STB                                     | HE13 (NIM, network interface module)       | Modbus                 | XBTGTW           | RS 232C | COM1       | 2/6.56<br>2.5/8.20    | STBXCA4002<br>XBTZ988 + (3)    | 0.210/0.463<br>0.220/0.485 |
| Modicon Momentum M1                             | RJ45 (port 1 on Momentum M1)               | Modbus                 | XBTGTW           | RS 232C | COM1       | 2.5/8.20              | XBTZ9711 + (3)                 | 0.210/0.463                |



TSXPCX1031

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

## Mitsubishi, Melsec PLCs

| Description<br>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, Q Link (SIO) | XBTGTW           | 9-way SUB-D<br>9-way SUB-D                             | RS 232C              | 5/11.02     | XBTZG9772 | –            |
| Connection cable, Q CPU (SIO)  | XBTGTW           | 9-way SUB-D<br>mini-DIN                                | RS 232C              | 5/11.02     | XBTZG9774 | –            |
| Connection cable, A Link (SIO) | XBTGTW           | 9-way SUB-D<br>25-way SUB-D                            | RS 232C              | 5/11.02     | XBTZG9731 | –            |



XBTZG9772

## Omron, Sysmac PLCs

| Description<br>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) | XBTGTW           | 9-way SUB-D<br>9-way SUB-D                             | RS 232C              | 5/11.02     | XBTZG9740 | –            |
|                               |                  | 9-way SUB-D<br>25-way SUB-D                            | RS 232C              | 5/11.02     | XBTZG9731 | –            |
| Connecting cables FINS (SIO)  | XBTGTW           | 9-way SUB-D<br>9-way SUB-D                             | RS 232C              | 5/11.02     | XBTZG9740 | 0.210/0.463  |



XBTZG9731

(3) Adaptor XBTZG919 to be used with cables with " + (3) " after the reference.

## Operator dialogue terminals

Magelis™ Advanced panels

Connection accessories for terminals

Magelis™ XBTGTW



XBTZG9731

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

## Rockwell Automation, Allen-Bradley PLCs

| Description<br>Driver used                     | Type of terminal | Type of connector<br>(fitted to cable,<br>excluding adaptor) | Physical<br>link<br>(COM1) | Length<br>m/<br>ft | Reference        | Weight<br>kg/<br>lb |
|------------------------------------------------|------------------|--------------------------------------------------------------|----------------------------|--------------------|------------------|---------------------|
| Connection<br>cables<br><i>DF1 Full Duplex</i> | XBTGTW           | 9-way SUB-D<br>25-way SUB-D                                  | RS 232C                    | 5/<br>16.40        | <b>XBTZG9731</b> | —                   |

## Siemens, Simatic PLCs

| Description<br>Driver used                        | Type of terminal | Type of connector<br>(fitted to cable,<br>excluding adaptor) | Physical<br>link  | Length<br>m/<br>ft | Reference        | Weight<br>kg/<br>lb |
|---------------------------------------------------|------------------|--------------------------------------------------------------|-------------------|--------------------|------------------|---------------------|
| Connection cables,<br><i>MPI port, S7 300/400</i> | XBTGTW           | 9-way SUB-D<br>9-way SUB-D                                   | RS 232C<br>(COM1) | 3/<br>9.84         | <b>XBTZG9292</b> | —                   |

## Connection of Magelis terminals via serial links and Ethernet network

| Type of bus/<br>network       | Tap-off units          | Connector<br>(tap-off unit side) | Terminal type | Length<br>m/<br>ft | Reference          | Weight<br>kg/<br>lb |
|-------------------------------|------------------------|----------------------------------|---------------|--------------------|--------------------|---------------------|
| Ethernet<br>TCP/IP<br>network | Hubs                   | RJ45                             | XBTGTW●●●     | 2/<br>6.56         | <b>490NTW00002</b> | —                   |
|                               | 499 NEH/NOH            |                                  |               |                    |                    |                     |
|                               | Switches               |                                  |               | 5/<br>16.40        | <b>490NTW00005</b> | —                   |
|                               | 499 NES,               |                                  |               |                    |                    |                     |
|                               | 499 NMS,               |                                  |               | 12/<br>39.37       | <b>490NTW00012</b> | —                   |
|                               | 499 NSS and<br>499 NOS |                                  |               | 40/<br>131.23      | <b>490NTW00040</b> | —                   |
|                               |                        |                                  |               | 80/<br>262.47      | <b>490NTW00080</b> | —                   |

## Connection of Magelis terminals to fieldbuses

| Type of bus/network | Connection components | Type of terminal | Reference         | Weight<br>kg/<br>lb |
|---------------------|-----------------------|------------------|-------------------|---------------------|
| Modbus Plus         | USB gateway           | XBTGTW           | <b>TSXCUSBMBP</b> | —                   |



ABL7RM24025

Modular regulated switch mode power supplies <sup>(1)</sup>

| Input voltage/<br>Output voltage                                           | Combination with<br>terminals | Nominal<br>power | Nominal<br>current | Reference          | Weight<br>kg/<br>lb |
|----------------------------------------------------------------------------|-------------------------------|------------------|--------------------|--------------------|---------------------|
| <b>100...240/24 V</b> single-phase<br>wide range line supply<br>47...63 Hz | XBTGTW                        | 60 W             | 2.5 A              | <b>ABL7RM24025</b> | 0.255/<br>0.837     |

(1) Dimensions: H x W x D = 90 x 54 x 59 mm (ABL8MEM24012) and 90 x 72 x 59 mm (ABL7RM24025). For further information, please refer to our website [www.schneider-electric.com](http://www.schneider-electric.com).



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|             |    |
|-------------|----|
| 490NTW00002 | 15 |
| 490NTW00005 | 15 |
| 490NTW00012 | 15 |
| 490NTW00040 | 15 |
| 490NTW00080 | 15 |
| 990NAA26320 | 14 |

**A**

|             |    |
|-------------|----|
| ABL7RM24025 | 15 |
|-------------|----|

**B**

|               |    |
|---------------|----|
| BMXXCAUSBH018 | 14 |
| BMXXCAUSBH045 | 14 |

**H**

|             |    |
|-------------|----|
| HMIGTW5354  | 11 |
| HMIGTW7354  | 11 |
| HMIGTW73545 | 11 |
| HMIZSD4G    | 12 |
| HMIZURS     | 13 |

**M**

|               |    |
|---------------|----|
| MPCYK20SPSKIT | 12 |
| MPCYK50SPSKIT | 12 |
| MPCYN00CF400N | 12 |

**S**

|            |    |
|------------|----|
| STBXCA4002 | 14 |
|------------|----|

**T**

|            |    |
|------------|----|
| TSXCUSBMBP | 15 |
| TSXPCX1031 | 14 |

**X**

|           |    |
|-----------|----|
| XBTGTW652 | 11 |
| XBTZ915   | 13 |
| XBTZ988   | 14 |
| XBTZ9710  | 14 |
| XBTZ9711  | 14 |
| XBTZG909  | 13 |
| XBTZG919  | 13 |
| XBTZG935  | 13 |
| XBTZG9292 | 15 |
| XBTZG9731 | 14 |
|           | 15 |
| XBTZG9740 | 14 |
| XBTZG9772 | 14 |
| XBTZG9774 | 14 |
| XBTZGPWS2 | 12 |
| XBTZGUSB  | 12 |
| XBTZGUSBB | 12 |



Human Machine Interface



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