Human/Machine Interfaces

Magelis™ GTUX eXtreme panels

Rugged Outdoor HMI

Catalog

July 2019

Schneider Electric
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Life is On

Schneider Electric
General contents

Magelis™ GTUX eXtreme panels

- General presentation
  - Sunlight readable .......................................................... page 2
  - Robustness ................................................................. page 3
  - Environment adaptability ................................................ page 3
  - Maintainability ............................................................. page 3

Selection guide ................................................................. page 4

- Presentation
  - Operation, Architecture ................................................ page 8
  - Environment .................................................................. page 9

- Functions
  - Companion products, Automation solution ........................ page 9

- Description
  - eXtreme displays for rugged outdoor .................................... page 10
  - eXtreme boxes for rugged outdoor ..................................... page 11

- References
  - Displays and Box modules .............................................. page 12
  - Accessories and separate parts ....................................... page 13
  - Replacement parts ......................................................... page 14
  - Connection accessories ................................................ page 15

- Product reference index .................................................. page 18
Magelis GTUX eXtreme panels

Magelis GTUX is a modularly designed robust terminal suitable for harsh outdoor environments. Features like high brightness and UV protection to direct sunlight, protection against water and dust, and supporting a wide range of temperatures make it an ideal choice for direct outdoor operation in O&G, WWW, and MMM segments.

Magelis eXtreme panels can be used in applications like smart energy generation (solar, wind turbine, biomass, hydropower genset, etc.), hoisting, compressor, pumping, and car charging/washing.

EcoStruxure is Schneider Electric's innovative IoT architecture addressing the needs of automation applications for a wide range of industries. The Magelis GTUX panels meet IIoT challenges at the Edge Control level by enabling secured communication from connected products on the shop floor to the required software and applications on the top floor. This provides improved profitability and new business opportunities through enhanced asset performance for more efficient operation and maintenance of capital assets.

**Sunlight readable**
- Clear visibility and resistant under direct sunlight
- High brightness LCD (1,000 cd/m²)
- Anti-reflection (anti-glare surface)
- Maximum brightness (no overlay, glass touch panel)
**Human/Machine Interfaces**

*Magelis GTUX eXtreme panels*

Robustness, environment adaptability, maintainability

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**Robustness**

- UV protected surface design and gasket
- Dust proof and water proof (IP66F)
- Wide temperature range (7" and 12" W: -30 ºC...+70 ºC, 15" W: -20 ºC...+60 ºC)
- Resistant against shocks (40G) and vibrations (2G)

![Magelis GTUX under extreme temperatures](image)

**Environment adaptability**

- Atmospheric resistance with conformal coating (fully coated, corrosive gas class 3C3). This treatment increases the isolation capability of the circuit boards and their resistance to condensation, dusty atmospheres, and chemical corrosion.
- Environmental standards: UL Haz Loc (Class 1 Div. 2)
- Low-voltage range of 12 V...24 V ~; (10.8 V...28.8 V ~)

![Harsh outdoor environments](image)

**Maintainability**

**Easy connectivity with variety of interfaces**

- COM1 RS-485 with isolation and COM2 RS-232/RS-485
- 2x Ethernet: Controllers, IT network
- 2x USB Type A: ID card reader
- 1x USB Type mini B: Data transfer
- 2x SD card: System data, log data

**Easy maintenance**

- Modular design (Box + Display)
- Removable system card
- Batteryless design

![Easy installation and maintenance with modular design](image)
### Human/Machine Interfaces
**Magelis™ GTUX eXtreme panels**
**eXtreme displays for rugged outdoor**

#### Applications

<table>
<thead>
<tr>
<th>Display graphic objects and symbolic views</th>
<th>Control and configuration of data</th>
</tr>
</thead>
<tbody>
<tr>
<td>eXtreme Display</td>
<td>eXtreme Display fully coated</td>
</tr>
</tbody>
</table>

#### Display

<table>
<thead>
<tr>
<th>Size</th>
<th>7” Wide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type and display colors</td>
<td>TFT Color LCD (high brightness), 262,144 colors</td>
</tr>
<tr>
<td>Touch support</td>
<td>Single-touch analog resistive, 1,024 x 1,024 pixels</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP66F (on the front panel when properly installed in an enclosure)</td>
</tr>
</tbody>
</table>

#### Functions

<table>
<thead>
<tr>
<th>Brightness control</th>
<th>0…100 (Adjusted with touch panel or software)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backlight service life</td>
<td>50,000 h or more</td>
</tr>
</tbody>
</table>

#### Dimensions

| External W × H × D (mm/in.) | 203.6 x 148.6 x 37/8.02 x 5.85 x 1.45 |
| Cut-out W × H (mm/in.)      | 190 x 135/7.48 x 5.31 |
| Weight (kg/lb)              | 1.3/00/2.90 |

#### Supply voltage

| 12…24 V :: :: |
| 29 W |

#### Environment

| Operating temperature | -30…70 °C (-22…149 °F) |
| Storage temperature   | -35…70 °C (-32…158 °F) |
| Vibration frequency   | 2G (IEC 60068-2-6) |
| Shock resistance      | 40G (IEC 60068-2-27) |

#### Conformity to certifications

<table>
<thead>
<tr>
<th>CE, RCM, KC, EAC, UL LiL Class 1 Div2</th>
</tr>
</thead>
</table>

#### Display module reference

<table>
<thead>
<tr>
<th>HMIDT35X</th>
<th>HMIDT35XF0H</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIDT65X</td>
<td>HMIDT65XF0H</td>
</tr>
<tr>
<td>HMIDT75X</td>
<td>HMIDT75XF0H</td>
</tr>
</tbody>
</table>

---

Note: HMIDT75X, HMIDT35XF0H, HMIDT35XF0H, HMIDT65XF0H, and HMIDT75XF0H are available in Q4 2019.
### Applications
Display graphic objects and synoptic views
Control and configuration of data

### Type of box module
 exonite Box
 exonite Box fully coated

### CPU
- RISC, 600 MHz
- Real Time

### Operating system
- RAM
- System memory
- Backup memory
- 512 KB NVRAM

### Memory
- RAM 256 MB
- 1 GB SD card
- System memory 1 GB SD card
- Backup memory 512 KB NVRAM

### Sound output interface
- Speaker output
- LINE output
- Rated load: 10 kHz or more

### Conformal coating
- Partially coated
- Fully coated IEC/EN 60721-3-3 Class 3C3

### Alarm output/Buzzer output
- Yes (24 V dc / 50 mA)
- Yes (24 V dc / 50 mA)

### Communication
- Asynchronous serial link RS-485 (isolated, COM1), RS-232C/422/485 (COM2)
- RS-485 (isolated, COM1), RS-232C/422/485 (COM2)
- 2x USB 2.0 (Type A), 1x USB 2.0 (Type Mini-B)
- 2x USB 2.0 (Type A), 1x USB 2.0 (Type Mini-B)
- 2x Ethernet TCP/IP (10BASE-T/100BASE-TX/1000BASE-T)
- 2x Ethernet TCP/IP (10BASE-T/100BASE-TX/1000BASE-T)
- 1x Fieldbus unit

### Expansion unit interface
- 1x Fieldbus unit

### Weight (kg/lb)
- 0.9/1.98

### Supply voltage
- 12...24 V dc
- 20 W

### Power consumption
- 0.9/1.98
- 12...24 V dc

### Environment
- Operating temperature
  - -30...70 °C (-22...158 °F)
  - -30...70 °C (-22...158 °F)
- Storage temperature
  - -20...70 °C (-4...158 °F)
  - -20...70 °C (-4...158 °F)
- Vibration frequency
  - 2G (IEC 60068-2-6)
  - 2G (IEC 60068-2-6)
- Shock resistance
  - 40G (IEC 60068-2-27)
  - 40G (IEC 60068-2-27)

### Conformity to certifications
- CE, RCM, KC, EAC, UL cUL Class 1 Div2
- CE, RCM, KC, EAC, UL cUL Class 1 Div2

### Compatible display
- HMIDT35X, HMIDT65X, HMIDT75X
- HMIDT35XF0H, HMIDT65XF0H, HMIDT75XF0H

### Box reference
- HMIG3X
- HMIG3XF0H

**Note:** HMIDT75X, HMID3XF0H, HMIDT35XF0H, HMIDT65XF0H, and HMIDT75XF0H are available in Q4 2019.
**Human/Machine Interfaces**

**Magelis™ GTUX eXtreme panels**

*eXtreme displays for rugged outdoor*

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**Presentation**

Magelis GTUX eXtreme panels are a high-performance range of HMIs that are ideal for harsh outdoor environments. They are modular units comprising a front panel display and a processing box module. The wide format displays are available in 7", 12", and 15" W screen sizes and are all compatible with the HMI G3X/HMI G3XF0H box module.

**Operation**

Magelis GTUX eXtreme panels feature powerful information and communication technologies with maximum operator efficiency in terms of viewing, which, depending on the model, include:

- Clear display with wide-format, single-touch technology
- High level of communication with all embedded dual interfaces: 2x serial ports, up to 4x USB host ports, and 2x Gigabit Ethernet ports (Multilink, Webserver and FTP, Email, Remote Services)
- Removable storage units for easy save/restore of operating system, HMI application, and user data (SD memory cards, USB memory stick management)
- Management of peripherals: printers, external keyboard/mouse, and Schneider Electric smart USB accessories (tower light, illuminated switch, USB keyboard)

**Architecture**

![Architecture Diagram]

*Connected product for Remote Services*
Human/Machine Interfaces

Magelis GTUX eXtreme panels
eXtreme displays for rugged outdoor

Presentation (continued)

Environment

The high-end Magelis GTUX eXtreme panels have been designed in accordance with numerous standards, certifications, and requirements:

- Standards: IEC/EN 61131-2, IEC 61000-6-2, and IEC 61000-6-4
- Certifications:
  - RCM (Australia), EAC (Eurasia), KC (Korea)
  - cULus Industrial Control Equipment (UL508 and CSA 22.2 No.142)
  - cULus Hazardous Locations (ANSI/ISA 12.12.01 and CSA 22.2 No. 213)
- Operating temperature: -30 °C up to 70 °C
- Degree of protection on front face IP66 (according to IEC 60529)
- Extended power supply voltage 12…24 V
- For coating model IEC/EN 60721-3-3 Class 3C3. This treatment increases the isolation capability of the circuit boards and their resistance to:
  - Condensation
  - Dusty atmospheres (conducting foreign particles)
  - Chemical corrosion, in particular during use in sulfurous atmospheres (oil refinery, purification plant, etc.) or atmospheres containing halogens (chlorine, etc.)
  - Harsh chemical environments EC/EN 60721-3-3 class 3C3: 14 days; 25 °C/relative humidity 75%; concentrations (mm³/m³): H₂S: 2100/SO₂: 1850/Cl₂: 100

Configuration

Magelis GTUX eXtreme panels can be configured using Vijeo Designer software in a Windows environment. This software has an advanced user interface with many configurable windows enabling projects to be developed quickly and easily.

For more information on Vijeo Designer, please refer to the Vijeo Designer catalog available on our website www.schneider-electric.com/HMI Configuration Software.

Functions

Companion products

With EcoStruxure Secure Connect Advisor, all Magelis GTUs serve as a service enabler and access point for remote maintenance to your machine. EcoStruxure Secure Connect Advisor provides a more secure way to access existing Schneider Electric tools (for example: Vijeo Designer, Unity, SoMachine) to program or monitor machines remotely. Maintenance personnel can also access Schneider Electric software and update it remotely and securely via the HMI, PLC, and other connected devices as if they are on site. Troubleshooting and repair can also be performed remotely upon request.

For more information, please refer to the “EcoStruxure Secure Connect Advisor catalog” available on our website www.schneider-electric.com.

Automation solution

The Magelis GTUX integrated (1) in EcoStruxure Machine™ (2) automation solutions offer will help machine manufacturers (OEMs) to quickly design optimized machines (in terms of cost and energy efficiency).

EcoStruxure Machine solutions are based on high-performance control platforms and the single SoMachine software package. SoMachine allows the development, commissioning, and programming of machines. With Vijeo Designer software, SoMachine allows programming of terminals in the Magelis range.

Magelis GTUXs have been designed for EcoStruxure Plant™ (2) architecture, EcoStruxure Machine (2) architecture, based on Web and Ethernet TCP/IP technologies. Therefore, all panels with an Ethernet port have a built-in FTP server for data file transfer and a Web Gate function for remote access to the panel application from a PC with a web browser.

(1) Magelis GTUX is integrated into EcoStruxure Machine with Vijeo Designer.
(2) For more information on the EcoStruxure Machine and EcoStruxure Plant concept, please refer to our website www.schneider-electric.com.

Note: HMIDT75X, HMIG3XF0H, HMIDT35XF0H, HMIDT65XF0H, and HMIDT77XF0H are available in Q4 2019.
Human/Machine Interfaces
Magelis GTUX eXtreme panels
eXtreme displays for rugged outdoor

**Description**

**Magelis HMIDT 35X/35XF0H**

**Front view**
1. Single-touch resistive screen for displaying synoptic views (262 K colors LCD TFT LED with brightness adjustable to 100 levels) in sizes 7”, 12”, and 15” wide
2. Stainless cover front panel providing IP66 protection when mounted on panel or enclosure door

**Rear view**
3. Power plug connector
4. Box module interface
5. Aluminum alloy housing

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**Magelis HMIDT 65X/65XF0H/75X/75XF0H**

**Front view**
1. Single-touch resistive screen for displaying synoptic views (262 K colors LCD TFT LED with brightness adjustable to 100 levels) in sizes 7”, 12”, and 15” wide
2. Stainless cover front panel providing IP66 protection when mounted on panel or enclosure door

**Rear view**
3. Power plug connector
4. Box module interface
5. Aluminum alloy housing

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Note: HMIDT75X, HMIDT35XF0H, HMIDT65XF0H, and HMIDT75XF0H are available in Q4 2019.
Human/Machine Interfaces
Magelis GTUX eXtreme panels
eXtreme boxes for rugged outdoor

Description (continued)

Front view
1. Auxiliary output/Speaker output interface (AUX) for alarm, buzzer, and speaker outputs
2. Status LED indicating the operating mode of the terminal
3. Card access LED indicating access to the SD memory card
4. 1x Type Mini-B USB connector for application transfer
5. Expansion unit interface cover (EXT) for optional battery or optional FieldBus card

Right view
6. Storage unit cover for SD slot memory card dedicated to user data
7. System card cover (1)

Underside view
8. 2x Type A USB host connectors for connecting peripherals, transferring applications, and Modicon M340 terminal port communication
9. RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX/1000BASE-T with an activity LED
10. RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX/1000BASE-T with an activity LED
11. COM1 LED indicating data transmission
12. RJ45 connector for RS-485 serial link with isolation (COM1)
13. 9-way male SUB-D connector for RS-232C or RS-422/RS-485 serial link to PLCs (COM2)

Rear view
14. Display module interface

(1) You cannot open this cover when the Box module is in operation.

Note: HMIG3XF0H is available in Q4 2019.
### Human/Machine Interfaces
#### Magelis GTUX eXtreme panels
Displays and Box modules

#### Magelis GTUX eXtreme Display panels

<table>
<thead>
<tr>
<th>Data entry method</th>
<th>Display size</th>
<th>Resolution (pixels)</th>
<th>Colors</th>
<th>Touch type</th>
<th>Conformal coating Class 3C3</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Via touch screen</td>
<td>7&quot;</td>
<td>800 x 480 (WVGA)</td>
<td>262 K</td>
<td>Single-touch analog resistive</td>
<td>No</td>
<td>HMIDT35X</td>
<td>1.300/2.900</td>
</tr>
<tr>
<td></td>
<td>12.1&quot;</td>
<td>1,280 x 800 (WXGA)</td>
<td>262 K</td>
<td>Single-touch analog resistive</td>
<td>No</td>
<td>HMIDT65X</td>
<td>3.200/7.100</td>
</tr>
<tr>
<td></td>
<td>15.6&quot;</td>
<td>1,366 x 768 (FWXGA)</td>
<td>262 K</td>
<td>Single-touch analog resistive</td>
<td>No</td>
<td>HMIDT75X</td>
<td>4.800/10.600</td>
</tr>
</tbody>
</table>

#### Magelis GTUX eXtreme Box modules

<table>
<thead>
<tr>
<th>Operating system</th>
<th>Number of ports</th>
<th>Application memory capacity (or system card)</th>
<th>Backup memory</th>
<th>Number of Ethernet ports</th>
<th>Conformal coating Class 3C3</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magelis operating system</td>
<td>2x USB 2.0 (Type A)</td>
<td>1x GB SD card</td>
<td>512 KB (NVRAM)</td>
<td>2</td>
<td>No</td>
<td>HMIG3X</td>
<td>0.900/1.980</td>
</tr>
</tbody>
</table>

Note: HMIDT75X, HMIG3XF0H, HMIDT35XF0H, HMIDT65XF0H, HMIDT75XF0H, and HMIZX57W are available in Q4 2019.
## Separate parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Characteristics</th>
<th>Compatible with terminals</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Box module Fixing Bracket</strong></td>
<td><strong>Bracket for fixing Box module to 7&quot; W Display module</strong></td>
<td>HMIDT35X</td>
<td>HMIZXFIX1</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td><strong>Bracket for fixing Box module to 12&quot;/15&quot; W display module</strong></td>
<td>HMIDT65X, HMIDT75X</td>
<td>HMIZXFIX2</td>
<td>–</td>
</tr>
<tr>
<td><strong>SD memory card system</strong></td>
<td><strong>1 GB, blank</strong></td>
<td>HMiG3X</td>
<td>HMIZSD1GS</td>
<td>–</td>
</tr>
<tr>
<td><strong>SD card</strong></td>
<td><strong>4 GB, blank</strong></td>
<td>HMiG3X</td>
<td>HMIZSD4G</td>
<td>–</td>
</tr>
<tr>
<td><strong>Power supply connector (direct type)</strong></td>
<td><strong>Connector with fixable screws to connect DC power supply cables to 12&quot;/15&quot; W display modules</strong></td>
<td>HMIDT65X, HMIDT75X</td>
<td>HMIZGPWS2</td>
<td>0.030/0.066</td>
</tr>
</tbody>
</table>

- **Sold in lots of 5**

<table>
<thead>
<tr>
<th>Description</th>
<th>Characteristics</th>
<th>Length m/ft</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Remote USB port for HMI terminals</strong></td>
<td>Enables the USB Type A port to be located remotely on the rear of the XBT or HMI GTU terminal, on a panel, or an enclosure door (Ø 21 mm fixing device)</td>
<td>1/3.28</td>
<td>XBTZGUSB</td>
<td>–</td>
</tr>
<tr>
<td><strong>Remote USB port for HMI panel</strong></td>
<td>Enables the USB Mini-B port to be located remotely on the rear of the HMI GTU panel, on a panel, or an enclosure door (Ø 21 mm fixing device)</td>
<td>1/3.28</td>
<td>HMIZSUSBB</td>
<td>–</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td></td>
<td></td>
<td>HMiGTUX</td>
<td>–</td>
</tr>
</tbody>
</table>

- **Auxiliary connector**<br>Sold in sets of 5 units
  - HMiGTUX – HMIZGAUX –

- **Stylus**<br>Sold in lots of 5<br>– – XBTZGPEN –

*Note:* HMIDT75X, HMiG3XF0H, HMIDT35XF0H, HMIDT65XF0H, HMIDT75XF0H, and HMIZX57W are available in Q4 2019.
# Human/Machine Interfaces

## Magelis GTUX eXtreme panels

### Replacement parts

#### Spare parts

<table>
<thead>
<tr>
<th>Description</th>
<th>For use with terminals</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seals</td>
<td>HMIDT35X</td>
<td>HMIZD53W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HMIDT65X</td>
<td>HMIZD56W</td>
<td></td>
</tr>
<tr>
<td>USB fastenings</td>
<td>HMIGTUX (USB Type A)</td>
<td>HMIZGCLP1</td>
<td></td>
</tr>
<tr>
<td>(Sold in lots of 5)</td>
<td>HMIGTUX (USB Type Mini-B)</td>
<td>HMIZSCLP3</td>
<td></td>
</tr>
<tr>
<td>Power supply connector</td>
<td>HMIDT35X (direct connection)</td>
<td>HMIZGPWS</td>
<td>0.030/0.066</td>
</tr>
<tr>
<td>(Sold in lots of 5)</td>
<td>HMIDT65X/HMIDT75X (right-angle connection)</td>
<td>HMIZXPWS</td>
<td>0.030/0.066</td>
</tr>
<tr>
<td>Installation gasket</td>
<td>HMIDT75X</td>
<td>HMIZX57W</td>
<td></td>
</tr>
</tbody>
</table>

#### Cables for application transfer - Terminal to PC

<table>
<thead>
<tr>
<th>Type of terminal (terminal end connector)</th>
<th>Connector (PC end)</th>
<th>Type</th>
<th>Length m/ft</th>
<th>Reference (1)</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIGTUX</td>
<td>USB</td>
<td>USB Type Mini-B</td>
<td>1.80/5.91</td>
<td>BMXXCAUSBH018</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USB Type A</td>
<td>1.80/5.91</td>
<td>XBTZG935</td>
<td>–</td>
</tr>
</tbody>
</table>

#### Printer connection cables

<table>
<thead>
<tr>
<th>Type of printer</th>
<th>Connector (printer end)</th>
<th>Type</th>
<th>Length m/ft</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIGTUX</td>
<td>25-way female SUB-D</td>
<td>RS-232C</td>
<td>2.5/8.20</td>
<td>XBTZ915</td>
<td>0.200/0.441</td>
</tr>
<tr>
<td></td>
<td>9-way female SUB-D</td>
<td>USB Type A/RS-232C</td>
<td>1.80/5.91</td>
<td>HMIZ2URS</td>
<td>–</td>
</tr>
</tbody>
</table>

#### Adapters and isolation boxes for HMIGTU panels

<table>
<thead>
<tr>
<th>Description</th>
<th>Type of connector (automation product end)</th>
<th>Physical link (HMIGTU terminal end)</th>
<th>Length m/ft</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adapter for HMIGTU</td>
<td>25-way SUB-D connector</td>
<td>RJ45 connector</td>
<td>0.2/0.66</td>
<td>XBTZG939</td>
<td>–</td>
</tr>
<tr>
<td>Adapter for HMIGTU (COM2 port)</td>
<td>25-way SUB-D connector</td>
<td>9-way SUB-D connector, RS-232C</td>
<td>0.2/0.66</td>
<td>XBTZG919</td>
<td>–</td>
</tr>
</tbody>
</table>

#### Serial link isolation units for HMIGTU

- Isolated link on 9-way SUB-D connector (2)
- Box power supply via terminal USB port incorporates a USB
  port expander

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(1) Cable included (depending on the model) with Vijeo Designer software packages. For more information on Vijeo Designer, please refer to the Vijeo Designer catalog available on our website www.schneider-electric.com/HMI Configuration Software.

(2) Male connector with XBTZG932.
## Human/Machine Interfaces

Magelis GTUX eXtreme panels
Connection accessories

### Cables for connecting Magelis terminals to other Schneider Electric products

<table>
<thead>
<tr>
<th>Automation product type</th>
<th>Type of connector (automation product end)</th>
<th>Protocol Type of terminal</th>
<th>Link</th>
<th>On port</th>
<th>Length m/ft</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Twido, Nano, Modicon TSX Micro, Modicon Premium</td>
<td>Terminal port, 8-way female mini-DIN</td>
<td>Uni-TE (V1/V2), Modbus</td>
<td>HMIGTUX RS-485 COM1</td>
<td>2.5/8.20</td>
<td>XBTZ9780</td>
<td>0.180/0.397</td>
<td></td>
</tr>
<tr>
<td>Modicon M340, Modicon M238, Modicon M258, Modicon M2x1</td>
<td>RJ45</td>
<td>Modbus</td>
<td>HMIGTUX RS-485 COM1</td>
<td>2.5/8.20</td>
<td>XBTZ9980</td>
<td>0.230/0.507</td>
<td></td>
</tr>
<tr>
<td>Modicon M340</td>
<td>USB Type Mini-B</td>
<td>Terminal port</td>
<td>HMIGTUX USB Type A</td>
<td>1.8/5.91</td>
<td>BMXXCAUSBH018</td>
<td>0.230/0.507</td>
<td></td>
</tr>
<tr>
<td>Modicon Quantum</td>
<td>9-way male SUB-D</td>
<td>Modbus</td>
<td>HMIGTUX RS-232C COM2</td>
<td>2.5/8.20</td>
<td>XBTZ9710 + (1)</td>
<td>0.210/0.463</td>
<td></td>
</tr>
<tr>
<td>Modicon STB (NIM, network interface module)</td>
<td>HE13</td>
<td>Modbus</td>
<td>HMIGTUX RS-232C COM2</td>
<td>2/6.56</td>
<td>STBXCA4002</td>
<td>0.210/0.463</td>
<td></td>
</tr>
<tr>
<td>Modicon Momentum M1</td>
<td>RJ45 (port 1 on Momentum M1)</td>
<td>Modbus</td>
<td>HMIGTUX RS-232C COM2</td>
<td>2.5/8.20</td>
<td>XBTZ9711 + (1)</td>
<td>0.210/0.463</td>
<td></td>
</tr>
<tr>
<td>TeSys U, T starters ATV 312/61/71 variable speed drives</td>
<td>RJ45</td>
<td>Modbus</td>
<td>HMIGTUX RS-485 COM1</td>
<td>3/9.84</td>
<td>VW3A8306R30</td>
<td>0.060/0.132</td>
<td></td>
</tr>
<tr>
<td>ATS 48 starters Lexium 05 Preventa XPSMC</td>
<td>RJ45</td>
<td>Modbus</td>
<td>HMIGTUX RS-485 COM1</td>
<td>1/3.28</td>
<td>VW3A8306R10</td>
<td>–</td>
<td></td>
</tr>
</tbody>
</table>

(1) XBTZG919 adapter should be used with cables with “+ (1)” after the reference.
### Magelis GTUX eXtreme panels
### Connection accessories

#### Mitsubishi, Melsec PLCs

<table>
<thead>
<tr>
<th>Description</th>
<th>Driver used</th>
<th>Type of terminal</th>
<th>Type of connector (fitted to cable, excluding adapter)</th>
<th>Physical link (COM2)</th>
<th>Length m/ft</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection cable, Q Link (SIO)</td>
<td>HMI GTUX</td>
<td>9-way SUB-D</td>
<td>9-way SUB-D</td>
<td>RS-232C</td>
<td>5/16.40</td>
<td>XBTZG9772</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>9-way SUB-D</td>
<td>mini-DIN</td>
<td>RS-232C</td>
<td>5/16.40</td>
<td>XBTZG9774</td>
<td></td>
</tr>
<tr>
<td>Connection cable, A Link (SIO)</td>
<td>HMI GTUX</td>
<td>9-way SUB-D</td>
<td>25-way SUB-D</td>
<td>RS-232C</td>
<td>5/16.40</td>
<td>XBTZG9731</td>
<td></td>
</tr>
<tr>
<td>Connection cable, FX (CPU)</td>
<td>HMI GTUX</td>
<td>9-way SUB-D</td>
<td>mini-DIN</td>
<td>RS-232/RS-422</td>
<td>5/16.40</td>
<td>XBTZG919</td>
<td>XBTZ980</td>
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</tbody>
</table>

#### Omron, Sysmac PLCs

<table>
<thead>
<tr>
<th>Description</th>
<th>Driver used</th>
<th>Type of terminal</th>
<th>Type of connector (fitted to cable, excluding adapter)</th>
<th>Physical link (COM2)</th>
<th>Length m/ft</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection cables, Link (SIO)</td>
<td>HMI GTUX</td>
<td>9-way SUB-D</td>
<td>9-way SUB-D</td>
<td>RS-232C</td>
<td>5/16.40</td>
<td>XBTZG9740</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>25-way SUB-D</td>
<td>mini-DIN</td>
<td>RS-232C</td>
<td>5/16.40</td>
<td>XBTZG9731</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>9-way SUB-D</td>
<td>mini-DIN</td>
<td>RS-232/RS-422</td>
<td>5/16.40</td>
<td>XBTZG919</td>
<td>XBTZ980</td>
</tr>
</tbody>
</table>

#### Rockwell Automation, Allen-Bradley PLCs

<table>
<thead>
<tr>
<th>Description</th>
<th>Driver used</th>
<th>Type of terminal</th>
<th>Type of connector (fitted to cable, excluding adapter)</th>
<th>Physical link (COM2)</th>
<th>Length m/ft</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection cables, DF1 Full Duplex</td>
<td>HMI GTUX</td>
<td>9-way SUB-D/</td>
<td>25-way SUB-D</td>
<td>RS-232C</td>
<td>5/16.40</td>
<td>XBTZG9731</td>
<td></td>
</tr>
<tr>
<td>Connection cables, DH485</td>
<td>HMI GTUX</td>
<td>9-way SUB-D</td>
<td></td>
<td>RS-485</td>
<td>5/16.40</td>
<td>XBTZG9732</td>
<td><em>(1)</em></td>
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</tbody>
</table>

#### Siemens, Simatic PLCs

<table>
<thead>
<tr>
<th>Description</th>
<th>Driver used</th>
<th>Type of terminal</th>
<th>Type of connector (fitted to cable, excluding adapter)</th>
<th>Physical link (COM2)</th>
<th>Length m/ft</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection cable, PPI, S7 200</td>
<td>HMI GTUX</td>
<td>RJ45/9-way SUB-D</td>
<td></td>
<td>RS-485 (COM1)</td>
<td>2.5/8.20</td>
<td>XBTZG9721</td>
<td></td>
</tr>
<tr>
<td>Connection cables, MPI port, S7 300/400</td>
<td>HMI GTUX</td>
<td>9-way SUB-D/</td>
<td>9-way SUB-D</td>
<td>RS-232C (COM2)</td>
<td>3/9.84</td>
<td>XBTZG9292</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>RJ45/flying leads at other end</td>
<td></td>
<td>RS-485 (2) COM1</td>
<td>3/9.84</td>
<td>VW3A8306D30</td>
<td>0.150/0.331</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RJ45/9-way SUB-D</td>
<td></td>
<td>RS-485 (2) COM1</td>
<td>2.5/8.20</td>
<td>XBTZG9721</td>
<td></td>
</tr>
</tbody>
</table>

---

*(1)* XBTZG939 adapter should be used with cables with “*(1)*” after the reference.
*(2)* Non-isolated RS-485 serial link, 12 Mbps.
### Connection of Magelis terminals via serial links and Ethernet network

<table>
<thead>
<tr>
<th>Type of bus/network</th>
<th>Tap-off units</th>
<th>Connector (tap-off unit end)</th>
<th>Terminal type</th>
<th>Length m/ft</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uni-Telway serial link</td>
<td>Subscriber socket</td>
<td>15-way female SUB-D</td>
<td>HMIGTUX</td>
<td>3/9.84</td>
<td>VW3A8306</td>
<td>0.150/0.331</td>
</tr>
<tr>
<td></td>
<td>Connection box</td>
<td>8-way female mini-DIN</td>
<td>HMIGTUX</td>
<td>2.5/8.20</td>
<td>XBTZ9780</td>
<td>0.180/0.396</td>
</tr>
<tr>
<td>Modbus serial link</td>
<td>Subscriber socket</td>
<td>15-way female SUB-D</td>
<td>HMIGTUX</td>
<td>3/9.84</td>
<td>VW3A8306</td>
<td>0.150/0.331</td>
</tr>
<tr>
<td></td>
<td>T-junction box</td>
<td>With integrated cable, RJ45 fitted</td>
<td>HMIGTUX</td>
<td>1/3.28</td>
<td>VW3A8306TF10</td>
<td>–</td>
</tr>
<tr>
<td>Ethernet TCP/IP network</td>
<td>Hubs</td>
<td>RJ45 Switches</td>
<td>HMIGTUX</td>
<td>2/6.56</td>
<td>490NTW00002</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>499 NEH/NOH, 499 NES, 499 NMS, 499 NISS and 499 NOS</td>
<td></td>
<td>5/16.40</td>
<td>490NTW00005</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Switches</td>
<td>HMIGTUX</td>
<td>12/39.37</td>
<td>490NTW00012</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RJ45</td>
<td>HMIGTUX</td>
<td>40/131.23</td>
<td>490NTW00040</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RJ45</td>
<td>HMIGTUX</td>
<td>80/262.47</td>
<td>490NTW00080</td>
<td>–</td>
</tr>
</tbody>
</table>

### Connection of Magelis terminals to fieldbuses

<table>
<thead>
<tr>
<th>Type of bus/network</th>
<th>Connection components</th>
<th>Type of terminal</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIPWAY, FIP/O</td>
<td>USB gateway</td>
<td>HMIGTUX</td>
<td>TSXCUSBFLP</td>
<td>–</td>
</tr>
<tr>
<td>Modbus Plus</td>
<td>USB gateway</td>
<td>HMIGTUX</td>
<td>XBTZGUMP</td>
<td>–</td>
</tr>
</tbody>
</table>
Index

Human/Machine Interfaces
Magelis GTUX eXtreme panels
Product reference index

# 490NTW00002 17
# 490NTW00005 17
# 490NTW00012 17
# 490NTW00040 17
# 490NTW00080 17
# 990NAA26320 15

B  BMXXCAUSBH018 14 15
#  BMXXCAUSBH045 15

H  HMIDT35X 12
#  HMIDT35XF0H 12
#  HMIDT65X 12
#  HMIDT65XF0H 12
#  HMIDT75X 12
#  HMIDT75XF0H 12
#  HMIG3X 12
#  HMIG3XF0H 12
#  HMIZD53W 14
#  HMIZD56W 14
#  HMIZGAUX 13
#  HMIZGBAT 13
#  HMIZGCLP1 14
#  HMIZGPWS 14
#  HMIZGPWS2 13
#  HMIZSCLP3 14
#  HMIZSD1GS 13
#  HMIZSD4G 13
#  HMIZSUSBB 13
#  HMIZURS 14
#  HMIZX57W 14
#  HMIZXFIX1 13
#  HMIZXFIX2 13
#  HMIZXPWS 14

S  STBXCA4002 15

T  TSXCUSBFIP 17
#  TSXPCX1031 15

V  VW3A8306 17
#  VW3A8306D30 16
#  VW3A8306R10 15
#  VW3A8306R30 15
#  VW3A8306TF10 17

X  XBTZ915 14
#  XBTZ980 16
#  XBTZ988 15
#  XBTZ9908 15
#  XBTZ9710 15
#  XBTZ9711 15
#  XBTZ9732 16
#  XBTZ9780 15 17
#  XBTZ9782 15
#  XBTZ9980 15
#  XBTZ9982 15
#  XBTZ9919 14 16
#  XBTZ9935 14
#  XBTZ9939 14
#  XBTZ99292 16
#  XBTZ99721 16
#  XBTZ99731 16
#  XBTZ99740 16
#  XBTZ99772 16
#  XBTZ99774 16
#  XBTZ99232 14
#  XBTZPEN 13
#  XBTZGUMP 17
#  XBTZGUSB 13

XBTZ9782 15
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