



HMI OPERATOR PANELS & GATEWAY *HIGH-PERFORMANCE SERIES*

Here introducing CMZ new premium-branded series of HMI operator panels and router available in our range.

- Superior performance
- Hi-tech smart features
- Made in Italy

eSMART07M



eSMART10



eX707



eXware703





eSMART07M Tech-Note

HMI 7" TFT Resistive touch,
4 GB Flash memory, 1x Ethernet

- 7" TFT color display, LED backlight
- 800x480 pixel (WVGA) resolution, 64K colors
- Resistive touchscreen
- Ethernet port
- USB port



Highlights

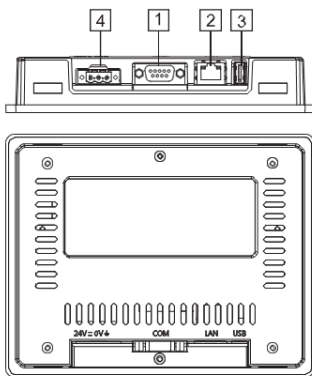
The eSMART Series HMI products combine state-of-the-art features and top performance with an outstanding design. They have been designed to offer an outstanding price/performance ratio for challenging applications. They are the ideal choice for HMI applications including factory and building automation. eSMART07 features a bright 7" TFT widescreen (16:9) display with a fully dimmable LED backlight.

- Compatible with JMobile Studio.
- Full vector graphic support. Native support of SVG graphic objects, transparency and alpha blending.
- Screen object dynamics: control visibility and transparency, move, resize, rotate any object on screen. Change properties of basic and complex objects.
- Multilanguage applications with TrueType fonts. Easily create, install and maintain applications in multiple languages to meet global requirements.
- Data display in numerical, text, bargraph, analog gauges and graphic image formats.
- Rich set of state-of-the-art HMI features: data acquisition and logging, trend presentation, alarm handling, scheduler and timed actions (daily and weekly schedulers, exception dates), recipes, security and user management, e-mail and RSS feeds.
- Wide selection of communication drivers available with multiple-driver communication capability.
- Remote monitoring and control with Client-Server functionality.
- Off-line and on-line simulation with JMobile Studio.
- Powerful scripting language for automating HMI applications. Efficient script debugger improves productivity in application development.
- Rich gallery of objects and symbols.

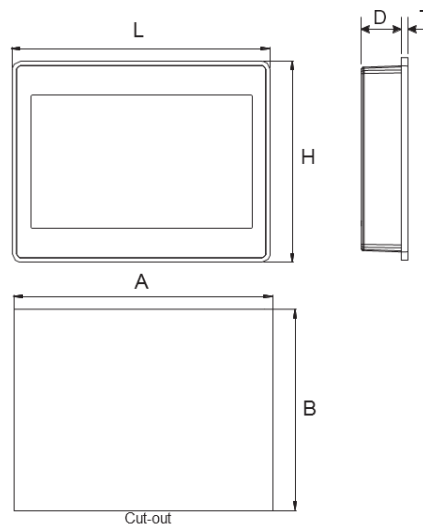
eSMART07 Technical data



System Resources	
Display - Colors	7" TFT 16:9 - 64K
Resolution	800x480, WVGA
Brightness	200 Cd/m ² typ.
Dimming	Yes
Touchscreen	Resistive
CPU	32-bit RISC single core - 1 GHz
Operating System	Linux 3.12
Flash	4 GB
RAM	512 MB
Real Time Clock, RTC Back-up, Buzzer	Yes
Interface	
Ethernet port	1 (port 0 - 10/100)
USB port	1 (Host v. 2.0, max. 500 mA)
Serial port	1 (RS-232, RS-485, RS-422, software configurable)
SD card	No
Expansion	No
Ratings	
Power supply	24 Vdc (10 to 32 Vdc)
Current Consumption	0.3 A at 24 Vdc (max.)
Input Protection	Automatic
Battery	Yes (Supercapacitor)
Environment Conditions	
Operating Temp	0 to 50 °C (vertical installation)
Storage Temp	-20°C to +70°C
Operating / Storage Humidity	5-85% RH, non condensing
Protection Class	IP66 (front), IP20 (rear) Type: 2, 4X
Dimensions and Weights	
Faceplate LxH	187x147 mm (7.36x5.79")
Cutout AxB	176x136 mm (6.93x5.35")
Depth D+T	29+5 mm (1.14+0.19")
Weight	Approx 0.6 Kg
Approvals	
CE	Electromagnetic Compatibility (EMC) - Directive 2014/30/EU
ATEX	Zone 2: II 3 G Ex ic ec IIC T6 Gc
UL	cULus: UL508
UL	cULus: Class 1 Div 2
DNV-GL	Yes
EU RO MR	Yes
RCM	Yes



- 1 Serial Port
- 2 Ethernet Port
- 3 USB port (vers. 2.0 - 1.1)
- 4 Power Supply



Ordering information

Model	Part Number	Description
eSMART07M	+ESMA07MU301	HMI 7" TFT, 800x480, Resistive touch, 4 GB Flash memory, 1x Ethernet, JMobile runtime



eSMART10 Tech–Note

HMI 10" TFT Resistive touch,
4 GB Flash memory, 1x Ethernet

- 10.1" TFT color display, LED backlight
- 1024x600 pixel (WVGA) resolution, 64K colors
- Resistive touchscreen
- Ethernet port
- USB port



Highlights

The eSMART Series HMI products combine state-of-the-art features and top performance with an outstanding design. They have been designed to offer an outstanding price/performance ratio for challenging applications. They are the ideal choice for HMI applications including factory and building automation.

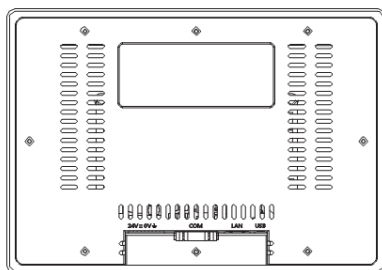
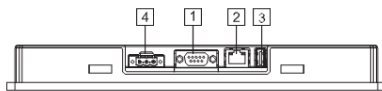
eSMART10 features a bright 10.1" TFT widescreen (16:9) display with a fully dimmable LED backlight

- Compatible with JMobile Studio.
- Full vector graphic support. Native support of SVG graphic objects, transparency and alpha blending.
- Screen object dynamics: control visibility and transparency, move, resize, rotate any object on screen. Change properties of basic and complex objects.
- Multilanguage applications with TrueType fonts. Easily create, install and maintain applications in multiple languages to meet global requirements.
- Data display in numerical, text, bargraph, analog gauges and graphic image formats.
- Rich set of state-of-the-art HMI features: data acquisition and logging, trend presentation, alarm handling, scheduler and timed actions (daily and weekly schedulers, exception dates), recipes, security and user management, e-mail and RSS feeds.
- Wide selection of communication drivers available with multiple-driver communication capability.
- Remote monitoring and control with Client-Server functionality.
- Off-line and on-line simulation with JMobile Studio.
- Powerful scripting language for automating HMI applications. Efficient script debugger improves productivity in application development.
- Rich gallery of objects and symbols.

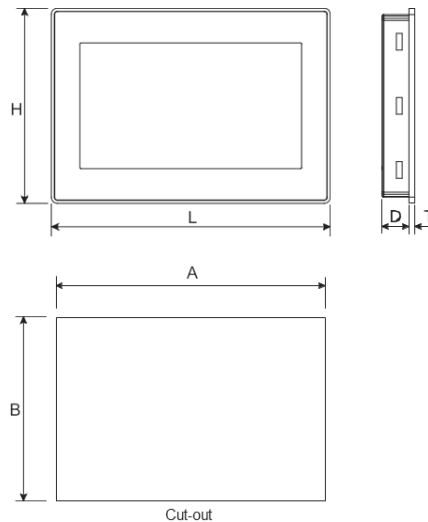
eSMART10 Technical data



System Resources	
Display - Colors	10.1" TFT 16:9 - 64K
Resolution	1024x600, WVGA
Brightness	200 Cd/m ² typ.
Dimming	Yes
Touchscreen	Resistive
CPU	32-bit RISC single core - 1 GHz
Operating System	Linux 3.12
Flash	4 GB
RAM	512 MB
Real Time Clock, RTC Back-up, Buzzer	Yes
Interface	
Ethernet port	1 (port 0 - 10/100)
USB port	1 (Host v. 2.0, max. 500 mA)
Serial port	1 (RS-232, RS-485, RS-422, software configurable)
SD card	No
Expansion	No
Ratings	
Power supply	24 Vdc (10 to 32 Vdc)
Current Consumption	0.38 A at 24 Vdc (max.)
Input Protection	Automatic
Battery	Yes (Supercapacitor)
Environment Conditions	
Operating Temp	0 to 50 °C (vertical installation)
Storage Temp	-20°C to +70°C
Operating / Storage Humidity	5-85% RH, non condensing
Protection Class	IP66 (front), IP20 (rear) Type: 2, 4X
Dimensions and Weights	
Faceplate LxH	282x197 mm (11.10x7.80")
Cutout AxB	271x186 mm (10.66x7.32")
Depth D+T	29+6 mm (1.14+0.23")
Weight	Approx 1.0 Kg
Approvals	
CE	Electromagnetic Compatibility (EMC) - Directive 2014/30/EU
ATEX	Zone 2: II 3 G Ex ic ec IIC T6 Gc
UL	cULus: UL508
UL	cULus: Class 1 Div 2
DNV-GL	Yes
EU RO MR	Yes
RCM	Yes



- 1 Serial Port
- 2 Ethernet Port
- 3 USB port (version 2.0 - 1.1)
- 4 Power Supply



Ordering information

Model	Part Number	Description
eSMART10	+ESMA10U301	HMI 10" TFT, 1024x600, Resistive touch, 4 GB Flash memory, 1x Ethernet, JMobile runtime



eX707 Tech-Note

HMI 7" TFT 800x480, PCAP Touch, 4 GB Flash,
3x Ethernet, JMobile runtime

- 7" TFT color display, resolution 800x480 pixel, 16M colors
- Dimmable LED backlight
- Projected capacitive touchscreen. True glass design
- Multitouch operation
- 3 Ethernet ports
- SD Card slot
- 2 Plug-in modules for system expansion



Highlights

eX700 Series HMI products combine state-of-the-art connectivity features and top performance in a great design. Products have been designed as IoT edge devices with the combination of a powerful controller with networking capability and outstanding communication options including client/server OPC UA. They are the ideal choice for all demanding IoT edge applications in factory, marine and building automation.

The glass projected capacitive touchscreen and the brilliant 7" widescreen display with resolution of 800x480 guarantee great optical performance; with the support of multitouch gesture programming they can create the most natural human interfaces.

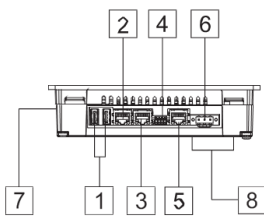
eX Series 700 HMI products have been designed to run the JMobile software.

- JMobile runtime included
- Requires JMobile V2.6 or higher
- Supports Corvina Cloud secure connectivity with full network separation
- OPC UA Server and Client
- Optional CODESYS V3 runtime with choice of EtherCAT, Profinet, Ethernet IP and Powerlink.

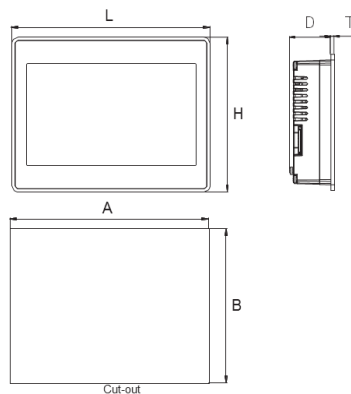
eX707 Technical data



System Resources	
Display - Colors	7" TFT 16:9 LED - 16M
Resolution	800x480, WVGA
Brightness	500 Cd/m2 typ.
Dimming	to 0%
Touchscreen	PCAP, Multitouch
CPU	32-bit RISC dual core - 800 MHz
Operating System	Linux RT
Flash	4 GB
RAM	1 GB
RT-Clock, RTCBack-up, Buzzer	Yes
Interface	
Ethernet port	3 (port 0 - 10/100/1000, port 1 - 10/100, port 2 - 10/100)
USB port	2 (Host V2.0, max. 500 mA)
Serial port	1 (RS-232, RS-485, RS-422, software configurable). Max 3 serial ports using plug-in modules.
SD card	Yes
Expansion	2 slot for plug in modules
Ratings	
Power supply	24 Vdc (10 to 32 Vdc)
Current Consumption	0.7 A at 24 Vdc (max.)
Input Protection	Electronic
Battery	Rechargeable Lithium battery, not user-replaceable
Environment Conditions	
Operating Temperature	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C
Storage Temperature	-20°C to +70°C
Operating / Storage Humidity	5-85% RH, non condensing
Protection Class	IP66 (front), IP20 (rear) - Type: 12, 4X
Dimensions and Weights	
Faceplate LxH	187x147 mm (7.36x5.79")
Cutout AxB	176x136 mm (6.93x5.35")
Depth D+T	47+8 mm (1.85+0.31")
Weight	1.5 Kg
Approvals	
CE	Electromagnetic Compatibility Directive 2014/30/EU (EMC)
ATEX	Zone 2/22: II 3 G Ex ec IIC T5...T4 Gc, II 3 D Ex tc IIIC T95°C Dc -20°C ≤ Tamb ≤ +60°C or 0°C ≤ Tamb ≤ +50°C
IECEX	Zone 2/22: Ex ec IIC T5...T4 Gc, Ex tc IIIC T95°C Dc -20°C ≤ Tamb ≤ +60°C or 0°C ≤ Tamb ≤ +50°C
UL	cULus: UL61010-1 / UL61010-2-201
UL	cULus: Class 1 Div 2
DNV-GL	Yes
LR	Yes
EU RO MR	Yes
RCM	Yes



- 1 USB ports 1 and 2
- 2 Ethernet port 2 (10/100 Mb)
- 3 Ethernet port 1 (10/100 Mb)
- 4 Serial port
- 5 Ethernet port 0 (10/100/1000 Mb)
- 6 Power supply
- 7 SD Card slot
- 8 2 Expansion slots for plugin modules



Ordering information

Model	Part Number	Description
eX707	+EX707U5P1	HMI 7" TFT 800x480, PCAP Touchscreen, 4 GB Flash Memory, 3x Ethernet Ports, JMobile runtime



eXware703 Tech-Note

Edge Gateway/Controller,
4 GB Flash, 2x Ethernet

- Compatible with JMobile runtime. Supports JMobile protocols and gateway functions. JM4web HTML5 interface for web HMI.
- OPC UA server and client
- Compatible with CODESYS PLC V3 and network stacks.
- Compatible with Corvina Cloud secure remote connectivity.
- Plug-in module for system expansion.
- 2 Ethernet ports for network separation.
- Rugged all metal design.
- Wide operating temperature range.



Highlights

eXware703 is rugged and compact controller designed as a powerful IIoT Gateway. The product can integrate JMobile HMI with HTML interface and powerful gateway functions, IEC 61131 PLC with I/O expandability, Corvina Cloud secure remote connection. It is a powerful HMI without direct visualization. It is the ideal device to start building cloud edge solutions.

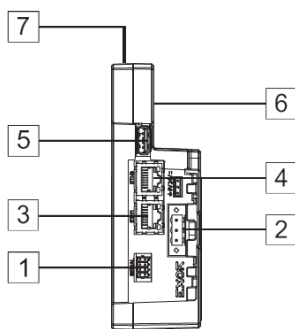
With the combination of JMobile HMI, CODESYS PLC and Corvina Cloud security, eXware offers companies the chance to start at an uncomplicated level in IoT and yet allows enormous future expansion into more complex aspects of Industry 4.0. Speaking across the vast library of JMobile protocols as well as OPC UA to higher enterprise level control, the eXware is a true Plug and Use product. Straightforward wireless connectivity using the optional PLCM09 2G/3G modem.

- Compatible with Existing Installations
- Compatible with JMobile. Includes JM4web HTML5 access
- Supports JMobile protocols including OPC UA server and client
- Compatible with CODESYS V3. Supports network stacks PROFINET, EtherNet/IP, EtherCAT, POWERLINK, Modbus, and local I/O expandability
- Ready for Corvina Cloud secure remote connectivity
- Compatible with PLCM09 2G/3G modem
- 2 Ethernet ports for network separation WAN/LAN
- System settings by web browser
- Linux-based open platform.

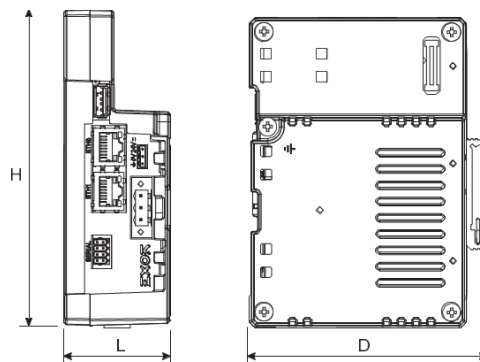
eXware703 Technical data



System Resources	
CPU	32-bit RISC single core - 1 GHz
Operating System	Linux RT
Flash	4 GB
RAM	512 MB
Real Time Clock, RTC Back-up, Buzzer	Yes
Interface	
Ethernet port	2 (port 0 - 10/100, port 1 - 10/100)
USB port	1 (Host v. 2.0, max. 500 mA)
Serial port	1 (RS-232, RS-485, RS-422, software configurable) Max 2 serial ports using plug-in modules.
SD card	Yes
Expansion	1 slot for plug-in modules
Ratings	
Power supply	24 Vdc (10 to 32 Vdc)
Current Consumption	0.35 A max. at 24 Vdc
Input Protection	Electronic
Battery	Yes
Environment Conditions	
Operating Temp	-20°C to +60°C - Plug-in modules and USB devices may limit max temperature to +50 °C.
Storage Temp	-20°C to +70°C
Operating / Storage Humidity	5 - 85% RH, non condensing
Protection Class	IP20
Dimensions and Weights	
Faceplate LxH	45x134 mm (1.77x5.27")
Depth D	102 mm (4.01")
Weight	0.6 Kg
Mounting	DIN Rail (TS35)
Approvals	
CE	Electromagnetic Compatibility Directive 2014/30/EU (EMC)
ATEX	Zone 2: II 3 G Ex ec IIC T5...T4 Gc -20°C ≤ Tamb ≤ +60°C or 0°C ≤ Tamb ≤ +50°C
IECEX	Zone 2: Ex ec IIC T5...T4 Gc -20°C ≤ Tamb ≤ +60°C or 0°C ≤ Tamb ≤ +50°C
UL	cULus: UL61010-1 / UL61010-2-201
UL	cULus: Class 1 Div 2
DNV-GL	Yes
RCM	Yes



- 1 Serial port
- 2 Power supply
- 3 Ethernet port 1 (10/100 Mb)
- 4 Ethernet port 0 (10/100 Mb)
- 5 USB port 1
- 6 Expansion slots for plug-in modules
- 7 SD Card slot



Ordering information

Model	Part Number	Description
eXware 703	+EXW703U0P1	Edge Gateway/Controller, 4GB Flash memory, 2x Ethernet, JMobile runtime