

### eX710 Tech-Note

### HMI 10" TFT, 1280x800, PCAP Touch, 4 GB Flash,

3x Ethernet, JMobile runtime

- 10.1" TFT color display, resolution 1280x800 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 10.1" widescreen display with resolution of 1280x800 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

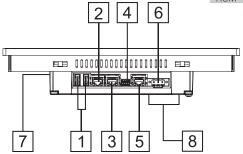
## eX710 - Technical Data







System Resources	404/757400150 4011
Display - Colors	10.1" TFT 16:9 LED - 16M
Resolution	1280x800, WXGA
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)
·	1 (RS-232, RS-485, RS-422, software configurable) Max 3 serial ports using
Serial port	plug-in modules.
SD card	Yes
Expansion	2 slot for plug in modules
Ratings	2 Slot for plug in modules
	24 Vdc (10 to 32 Vdc)
Power supply	
Current Consumption	1.0 A at 24 Vdc (max.)
Input Protection	Electronic
Battery	Rechargeable Lithium battery, not user-replaceable
Environment Conditions	
	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit
Operating Temperature	max temperature to +50 °C
Operating Temperature Storage Temperature	max temperature to +50 °C -20°C to +70°C
Operating Temperature Storage Temperature Operating / Storage Humidity	max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing
Operating Temperature Storage Temperature Operating / Storage Humidity Protection Class	max temperature to +50 °C -20°C to +70°C
Operating Temperature Storage Temperature Operating / Storage Humidity Protection Class Dimensions and Weights	max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing IP66 (front), IP20 (rear) - Type: 12, 4X
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Operating Temperature Storage Temperature Operating / Storage Humidity Protection Class Dimensions and Weights Faceplate LxH Cutout AxB	max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing IP66 (front), IP20 (rear) - Type: 12, 4X  282x197 mm (11.10x7.80") 271x186 mm (10.67x7.32")
Operating Temperature Storage Temperature Operating / Storage Humidity Protection Class Dimensions and Weights Faceplate LxH Cutout AxB Depth D+T	max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing IP66 (front), IP20 (rear) - Type: 12, 4X  282x197 mm (11.10x7.80") 271x186 mm (10.67x7.32") 56+8 mm (2.20+0.33")
Operating Temperature Storage Temperature Operating / Storage Humidity Protection Class Dimensions and Weights Faceplate LxH Cutout AxB Depth D+T Weight	max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing IP66 (front), IP20 (rear) - Type: 12, 4X  282x197 mm (11.10x7.80") 271x186 mm (10.67x7.32") 56+8 mm (2.20+0.33")
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Operating Temperature Storage Temperature Operating / Storage Humidity Protection Class Dimensions and Weights Faceplate LxH Cutout AxB Depth D+T Weight Approvals CE ATEX  IECEx UL	max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing IP66 (front), IP20 (rear) - Type: 12, 4X $ 282x197 \text{ mm } (11.10x7.80") \\ 271x186 \text{ mm } (10.67x7.32") \\ 56+8 \text{ mm } (2.20+0.33") \\ 2.5 \text{ Kg} $ Electromagnetic Compatibility Directive 2014/30/EU (EMC) $ 200 \times 2/22: 11 \text{ 3 G Ex ec IIC T5T4 Gc, II 3 D Ex tc IIIC T95°C Dc } \\ -20°C ≤ \text{Tamb} ≤ +60°C \text{ or } 0°C ≤ \text{Tamb} ≤ +50°C \\ 200 \times 2/22: \text{Ex ec IIC T5T4 Gc, Ex tc IIIC T95°C Dc } \\ -20°C ≤ \text{Tamb} ≤ +60°C \text{ or } 0°C ≤ \text{Tamb} ≤ +50°C \\ \text{CULus: UL61010-1 / UL61010-2-201} $
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Operating Temperature Storage Temperature Operating / Storage Humidity Protection Class Dimensions and Weights Faceplate LxH Cutout AxB Depth D+T Weight Approvals CE ATEX IECEx UL UL DNV-GL	max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing IP66 (front), IP20 (rear) - Type: 12, 4X  282x197 mm (11.10x7.80") 271x186 mm (10.67x7.32") 56+8 mm (2.20+0.33") 2.5 Kg  Electromagnetic Compatibility Directive 2014/30/EU (EMC) Zone 2/22: II 3 G Ex ec IIC T5T4 Gc, II 3 D Ex tc IIIC T95°C Dc -20°C ≤ Tamb ≤ +60°C or 0°C ≤ Tamb ≤ +50°C  Zone 2/22: Ex ec IIC T5T4 Gc, Ex tc IIIC T95°C Dc -20°C ≤ Tamb ≤ +60°C or 0°C ≤ Tamb ≤ +50°C  CULus: UL61010-1 / UL61010-2-201 cULus: Class 1 Div 2 Yes
Operating Temperature Storage Temperature Operating / Storage Humidity Protection Class Dimensions and Weights Faceplate LxH Cutout AxB Depth D+T Weight Approvals CE ATEX IECEx UL UL DNV-GL LR	max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing IP66 (front), IP20 (rear) - Type: 12, 4X  282x197 mm (11.10x7.80") 271x186 mm (10.67x7.32") 56+8 mm (2.20+0.33") 2.5 Kg  Electromagnetic Compatibility Directive 2014/30/EU (EMC) Zone 2/22: II 3 G Ex ec IIC T5T4 Gc, II 3 D Ex tc IIIC T95°C Dc -20°C ≤ Tamb ≤ +60°C or 0°C ≤ Tamb ≤ +50°C  Zone 2/22: Ex ec IIC T5T4 Gc, Ex tc IIIC T95°C Dc -20°C ≤ Tamb ≤ +60°C or 0°C ≤ Tamb ≤ +50°C  CULus: UL 61010-1 / UL 61010-2-201 cULus: Class 1 Div 2 Yes
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- 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

# H A A Cut-out

# Ordering Information

Model	Part Number	Description
eX710	+EX710U5P1	HMI 10.1" TFT 1280x800, PCAP Touchscreen, 4 GB Flash memory, 3x Ethernet ports, JMobile runtime