

eX710 Tech-Note

10.1" TFT - ARM Cortex A9 Dual Core 3 Ethernet, 1 Serial, 2 USB ports

- 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

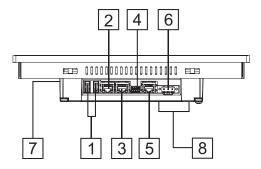
eX710 - Technical Data







System Resources	
Display - Colors	10.1" TFT 16:9 LED - 16M
Resolution	1280x800, WXGA
Brightness	500 Cd/m² typ.
Dimming	to 0%
Touchscreen	True Glass Projected Capacitive, Multitouch
CPU	ARM Cortex-A9 dual core 800 MHz
Operating System	Linux RT
Flash	4 GB
RAM	1 GB
Real Time Clock, RTC Back-up, Buzzer	Yes
Interface	163
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)
Serial port	Max 3 serial ports using plug-in modules.
SD card	Yes
Expansion	2 slot for plug in modules
Ratings	2 slot for plug in modules
Power supply	24 Vdc (10 to 32 Vdc)
Current Consumption	1.0 A at 24 Vdc (max.)
Input Protection	Flectronic
Battery	Rechargeable Lithium battery, not user-replaceable
Environment Conditions	ricorargeable Elitham battery, flot aser replaceable
	-20° to +60 °C (vertical installation)
O	
Operating Temp	Plug-in modules and USB devices may limit
Operating Temp	Plug-in modules and USB devices may limit max temperature to +50 °C
	Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C
Storage Temp	max temperature to +50 °C -20°C to +70°C
Storage Temp Operating / Storage Humidity	max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing
Storage Temp	max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing IP66 (front), IP20 (rear)
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Storage Temp 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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Storage Temp Operating / Storage Humidity Protection Class Dimensions and Weights Faceplate LxH	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")
Storage Temp 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°)
Storage Temp 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")
Storage Temp Operating / Storage Humidity Protection Class Dimensions and Weights Faceplate LxH Cutout AxB Depth D+T Weight Approvals	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
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Storage Temp Operating / Storage Humidity Protection Class Dimensions and Weights Faceplate LxH Cutout AxB Depth D+T Weight Approvals CE UL	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 Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environments cULus: UL61010-1 / UL61010-2-201
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Storage Temp Operating / Storage Humidity Protection Class Dimensions and Weights Faceplate LxH Cutout AxB Depth D+T Weight Approvals CE UL UL IECEX ATEX 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 Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environments cULus: Class 1 Div 2 Zone 2/22: Ex nA IIC T5 Gc, Ex tc IIIC T95°C Dc Zone 2/22: II 3 G Ex nA IIC T5 Gc, II 3 D Ex tc IIIC T95°C Dc Yes
Storage Temp Operating / Storage Humidity Protection Class Dimensions and Weights Faceplate LxH Cutout AxB Depth D+T Weight Approvals CE UL UL IECEX ATEX 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 Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environments cULus: UL61010-1 / UL61010-2-201 cULus: Class 1 Div 2 Zone 2/22: Ex nA IIC T5 Gc, Ex tc IIIC T95°C Dc Zone 2/22: II 3 G Ex nA IIC T5 Gc, II 3 D Ex tc IIIC T95°C Dc Yes 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	10.1" widescreen TFT color with multitouch projected capacitive touchscreen. 3 Ethernet ports, 1 serial port, 2 USB ports, JMobile runtime.