

#### eX715 Tech-Note

# HMI 15,6" TFT, 1366x768, PCAP Touch, 8 GB Flash, 3x Ethernet, JMobile runtime

- 15.6" TFT color display, resolution 1366x768 pixel,
   16M colors. Dimmable LED backlight
- Projected capacitive touchscreen. True glass design.
   Multitouch operation
- 3 Ethernet ports
- · SD Card slot



#### 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 15.6" widescreen display with resolution of 1366x768 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

### eX715 - Technical Data

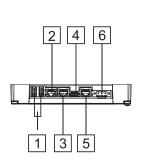


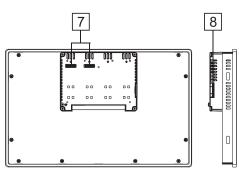


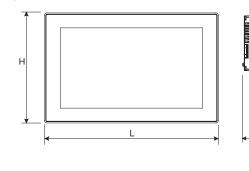


System Resources	
Display - Colors	15,6" TFT LED - 16M
Resolution	1366x768, HD
Brightness	400 Cd/m2 typ.
Dimming	to 0%
Touchscreen	PCAP, Multitouch
CPU	32-bit RISC guad core - 800MHz
Operating System	Linux RT
Flash	8 GB
RAM	2 GB
RT-Clock, RTCBack-up, Buzzer	Yes
Interface	
	2 (part 0 10/100/1000 part 1 10/100 part 2 10/100)
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	1.2 A at 24 Vdc (max.)
Input Protection	Electronic
Battery	Rechargeable Lithium battery, not user-replaceable
Environment Conditions	,
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Environment Conditions Operating Temperature Storage Temperature	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C
Environment Conditions Operating Temperature Storage Temperature Operating / Storage Humidity	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing
Environment Conditions Operating Temperature Storage Temperature Operating / Storage Humidity Protection Class	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C
Environment Conditions Operating Temperature Storage Temperature Operating / Storage Humidity Protection Class Dimensions and Weights	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing IP66 (front), IP20 (rear) - Type: 12, 4X
Environment Conditions Operating Temperature Storage Temperature Operating / Storage Humidity Protection Class Dimensions and Weights Faceplate LxH	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing IP66 (front), IP20 (rear) - Type: 12, 4X 422x267 mm (16.6x10.5")
Environment Conditions Operating Temperature Storage Temperature Operating / Storage Humidity Protection Class Dimensions and Weights Faceplate LxH Cutout AxB	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing IP66 (front), IP20 (rear) - Type: 12, 4X  422x267 mm (16.6x10.5°) 411x256 mm (16.18x10°)
Environment Conditions Operating Temperature Storage Temperature Operating / Storage Humidity Protection Class Dimensions and Weights Faceplate LxH Cutout AxB Depth D+T	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing IP66 (front), IP20 (rear) - Type: 12, 4X  422x267 mm (16.6x10.5") 411x256 mm (16.18x10") 56+8 mm (2.20+0.33")
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Environment Conditions Operating Temperature Storage Temperature Operating / Storage Humidity Protection Class Dimensions and Weights Faceplate LxH Cutout AxB Depth D+T Weight Approvals CE ATEX	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing IP66 (front), IP20 (rear) - Type: 12, 4X  422x267 mm (16.6x10.5") 411x256 mm (16.18x10") 56+8 mm (2.20+0.33") 4.1 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
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Environment Conditions 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	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing IP66 (front), IP20 (rear) - Type: 12, 4X  422x267 mm (16.6x10.5") 411x256 mm (16.18x10") 56+8 mm (2.20+0.33") 4.1 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
Environment Conditions 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	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing IP66 (front), IP20 (rear) - Type: 12, 4X  422x267 mm (16.6x10.5") 411x256 mm (16.18x10") 56+8 mm (2.20+0.33") 4.1 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
Environment Conditions  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	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing IP66 (front), IP20 (rear) - Type: 12, 4X  422x267 mm (16.6x10.5") 411x256 mm (16.18x10") 56+8 mm (2.20+0.33") 4.1 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
Environment Conditions 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	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing IP66 (front), IP20 (rear) - Type: 12, 4X  422x267 mm (16.6x10.5") 411x256 mm (16.18x10") 56+8 mm (2.20+0.33") 4.1 Kg  Electromagnetic Compatibility Directive 2014/30/EU (EMC) Zone 2/22: II 3 G Ex ec IIC T5T4 Gc, II 3 D Ex to IIIC T95°C Dc -20°C ≤ Tamb ≤ +60°C or 0°C ≤ Tamb ≤ +50°C Zone 2/22: Ex ec IIC T5T4 Gc, Ex to 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

В







Cut-out

- 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 2 Expansion slots for plugin modules
- 8 SD Card slot

## Ordering Information

Model	Part Number	Description
eX715	+EX715U5P1	HMI 15.6" TFT 1366x768, PCAP Touchscreen, 8 GB Flash memory, 3x Ethernet ports, JMobile runtime