

eX712 Tech-Note

HMI 12" TFT, 1920x720, Touch, 8 GB Flash, 3x Ethernet, JMobile runtime

- Resolution 1920x720 (24:9)
- Ideal for presenting multiple context on screen
- Full JMobile compatibility



Highlights

Suitable for landscape and portrait operation.

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 12,3" widescreen display with resolution of 1920x720 guarantee great optical performance; with the support of multitouch gesture programming they can create the most natural human interfaces.

eX700 Series HMI products have been designed to run the JMobile software.

- · JMobile runtime included
- Requires JMobile V4.0 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

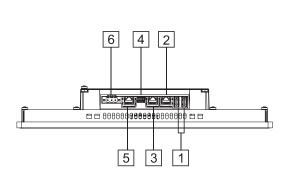
eX712 - Technical Data



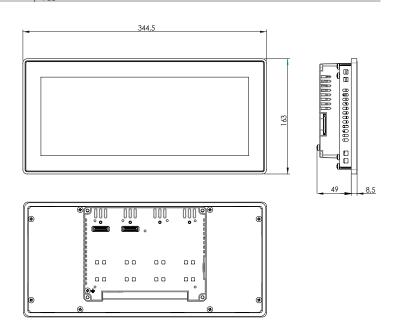




| Display - Colors 12,3" TFT LED - 16M | Display - Colors Resolution | 1920x720, HD 600 Cd/m2 typ. |
|---|--------------------------------|---|
| Resolution 1920x720, HD 600 Cd/m2 typ. 600 Cd/m2 | Resolution | 1920x720, HD 600 Cd/m2 typ. |
| Brightness Commons | | 600 Cd/m2 typ. |
| Dimming | Brightness | 1 21 |
| True Glass Projected Capacitive, Multitouch CPU 32-bit RISC quad core - 800MHz Operating System Flash RAM 8 GB RAM 2 GB RT-Clock, RTCBack-up, Buzzer Interface Ethernet port USB port 2 (Host V2.0, max. 500 mA) 1 (RS-232, RS-485, RS-422, software configurable) Max 3 serial ports using plug-in modules. Sp. card Expansion 2 slot for plug in modules Ratings Power supply 24 Vdc (10 to 32 Vdc) Current Consumption Input Protection Battery Environment Conditions Operating Temperature Storage Temp Operating / Storage Humidity Protection Class Dimensions and Weights Faceplate LxH Supply Cut AxB Depth D+T Weight 1.8 Kg Approvals CE Electromagnetic Compatibility Directive 2014/30/EU (EMC) ATEX Zone 2/22: 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 ILCLS ULL CULLS: UL61010-1 / UL61010-2-201 Floring Indicate Including 1 (Storage Storage | | 1 00: |
| CPU 32-bit RISC quad core - 800MHz Operating System Linux RT Flash 8 GB RAM 2 GB RTClock, RTCBack-up, Buzzer Yes Interface 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 Yes Power supply 24 Vdc (10 to 32 Vdc) Current Consumption 1.1 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 max temperature to +50° °C Storage Temp -20° to +70° °C Operating / Storage Humidity 5-85% RH, non condensing Protection Class IP66 (front), IP20 (rear) - Type: 12, 4X Dimensions and Weights 5-85% RH, non condensing Faceplate LxH 344.5x163 mm (13.56x6.41°) <t< td=""><td>Dimming</td><td>1 to 0%</td></t<> | Dimming | 1 to 0% |
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| Diperating System | CPU | |
| Flash RAM 2 GB RTClock, RTCBack-up, Buzzer Interface Ethernet port USB port 2 (Host V2.0, max. 500 mA) 3 (port 0 - 10/100/1000, port 1 - 10/100, port 2 - 10/100) USB port 2 (Host V2.0, max. 500 mA) 3 (Fis-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 1.1 A at 24 Vdc (max.) Input Protection Battery Rechargeable Lithium battery, not user-replaceable Environment Conditions Operating Temperature Storage Temp Operating / Storage Humidity Protection Class Dimensions and Weights Faceplate LxH 244.5x163 mm (13.56x6.41°) Simensions and Weight Depth D+T 4948.5 mm Weight 1.8 kg Approvals CE Electromagnetic Compatibility Directive 2014/30/EU (EMC) Zone 2/22: Il 3 G Ex ec IIC T5T4 Gc, Il 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 UL UL CULus: UL61010-1 / UL61010-2-201 | Operating System | |
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| | | |
| | | |
| | UL | cULus: Class 1 Div 2 |
| DNV-GL Yes | | |
| RCM 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



Ordering Information

| Model | Part Number | Description |
|-------|-------------|---|
| eX712 | +EX712U5P1 | HMI 12.3" TFT 1920x720, PCAP Touchscreen, 8 GB Flash memory, 3x Ethernet ports, JMobile runtime |