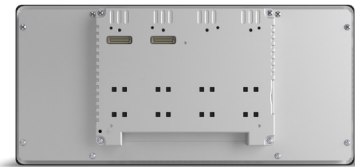


# eX712M - Tech Note

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## 12.3" TFT, PCAP Touchscreen, 3x Ethernet Ports, JMobile runtime

- Resolution 1920x720 (24:9)
- Ideal for presenting multiple context on screen
- Full JMobile compatibility
- 64 bit quad core CPU
- IECEx, ATEX, DNV-GL, cULus, cULus: Class 1 Div 2



## Highlights

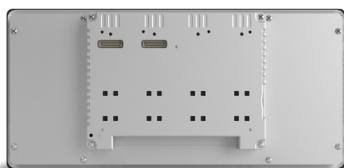
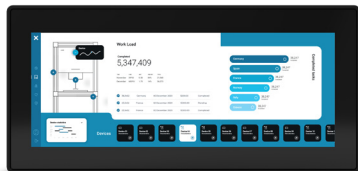
eX700M Series feature a powerful 64 bit quad core CPU that ensures JMobile applications are running in their optimal environment for the highest performance.

The power of eX700M Series is the best way to exploit the new graphical and security features in JMobile 4.5, in addition to the outstanding communication features such as OPC UA Client/Server and MQTT.

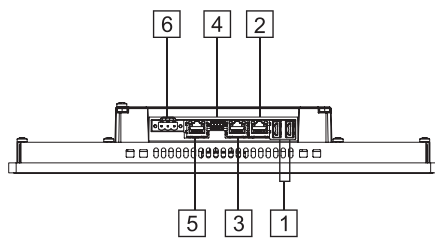
The glass projected capacitive touchscreen and the brilliant 7 inch widescreen display guarantee great optical performance; with the support of multitouch gesture programming they can create the most natural human interfaces.

eX700M Series is the ideal choice for the most demanding IIoT edge applications in factory, marine and building automation where powerful and performing HMI is needed for installation as close as possible to human operators.

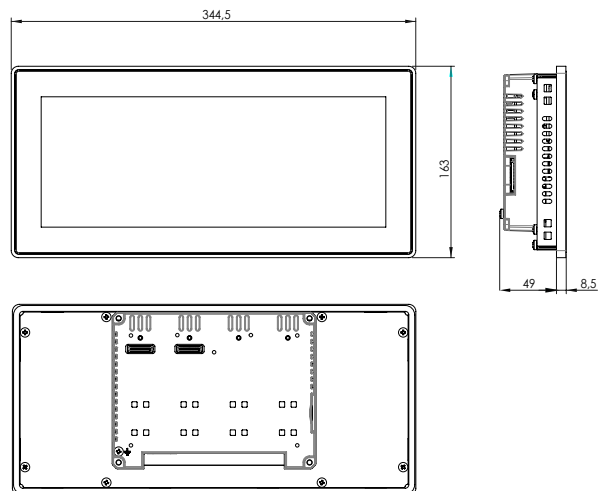
# eX712M - Technical Data



| System Resources             |                                                                                                                  |
|------------------------------|------------------------------------------------------------------------------------------------------------------|
| Display - Colors             | 12.3" TFT LED - 16M                                                                                              |
| Resolution                   | 1920x720, HD                                                                                                     |
| Brightness                   | 600 cd/m2                                                                                                        |
| Dimming                      | Yes                                                                                                              |
| Touchscreen                  | True Glass Projected Capacitive, Multitouch                                                                      |
| CPU                          | 64-bit RISC quad core - 1.6 GHz                                                                                  |
| Operating System             | Linux                                                                                                            |
| Flash                        | 8 GB                                                                                                             |
| RAM                          | 2 GB                                                                                                             |
| FRAM                         | 64 KB                                                                                                            |
| 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          | 1.1 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 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                | 344.5x163 mm (13.56x6.41")                                                                                       |
| Cutout AxB                   | 332.5x152 mm (13.09x5.94")                                                                                       |
| Depth D+T                    | 49+8.5 mm (1.93+0.33")                                                                                           |
| Weight                       | 1.8 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<br>-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<br>-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                          | 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                                                      |
|--------|-------------|------------------------------------------------------------------|
| eX712M | +EX712MU5P1 | HMI 12.3" TFT 1920x720, PCAP Touch, 3x Ethernet, JMobile runtime |