# EXOR

# eX710G Tech-Note

## 10" TFT - ARM Cortex-A9 Dual Core 800 MHz, Harsh Environment

- Brilliant Displays Readable in Full Sunlight
- PCAP Touchscreen
- All Metal Enclosure
- Coated Board Protection
- Extended operating temperature
- Optional Plug In modules for Fieldbus + Networks
- Optional CODESYS integrated PLC
- cULus, cULus Haz. Loc.

## Highlights

EXOR has taken the highly successful harsh environment eTOP500 series and updated it with the recently released eX700 series. This natural progression allows you to combine a high-performance sunlight readable display with state of the art connectivity such as OPC UA.

eX700G Series combine high-performance sunlight-readable display with state-of-the-art connectivity features and top performance in a great design maintaining as a design commitment the fact that the product is likely to be used in environments where the safety of operators is at risk.

EXOR has designed the product range as Industrial IoT edge devices combining a powerful controller with networking capability and outstanding communication options including client/server OPC UA. They are the ideal choice for all demanding IIoT edge applications in extreme environments such as marine and process industries. The glass projected capacitive touchscreen and the brilliant 7" widescreen display with a resolution of 800×480 are bonded to guarantee the highest optical performance and resistance in such environments.

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

- JMobile runtime included. Requires JMobile V2.8 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

# eX710G - Technical Data

| System Resources | |
|---|---|
| Display - Colors | 10.1" TFT 16:9 LED - 16M |
| Resolution | 1280x800, WXGA |
| Brightness | 800 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** | |
| 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 | 1.0 A at 24 Vdc (max.) |
| Input Protection | Electronic |
| Battery | Rechargeable Lithium battery, not user-replaceable |
| **Environment Conditions** | |
| Operating Temp | -20° to +60 °C (vertical installation) Plug-in modules and USB devices may limit max temperature to +50 °C |
| Storage Temp | -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 | 282x197 mm (11.10x7.80") |
| Cutout AxB | 271x186 mm (10.67x7.32") |
| Depth D+T | 56+8 mm (2.20+0.33") |
| Weight | 2.5 Kg |
| **Approvals** | |
| CE | Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environments, Emission EN 60945, Immunity EN 60945 for marine environments |
| UL | cULus: UL61010-1 / UL61010-2-201 |
| UL | cULus: Class I Div. 2 |
| IECEx | Zone 2/22: Ex nA IIC T5 Gc Ex tc IIIC T95°C Dc |
| ATEX | Zone 2/22: II 3 G  Ex nA IIC T5 Gc II 3 D  Ex tc IIIC T95°C Dc |
| DNV-GL | Yes |
| RCM | Yes |
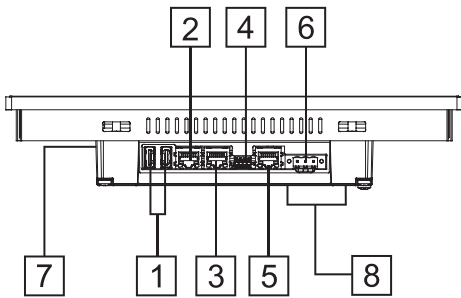
1 USB ports 1 and 2
2 Ethernet port 2 (10/100 Mb)
3 Ethernet port 1 (10/100 Mb)
4 Serial port
5 Ethernet port 0 (10/100/1000 Mb)
6 Power supply
7 SD Card slot
8 2 Expansion slots for plugin modules
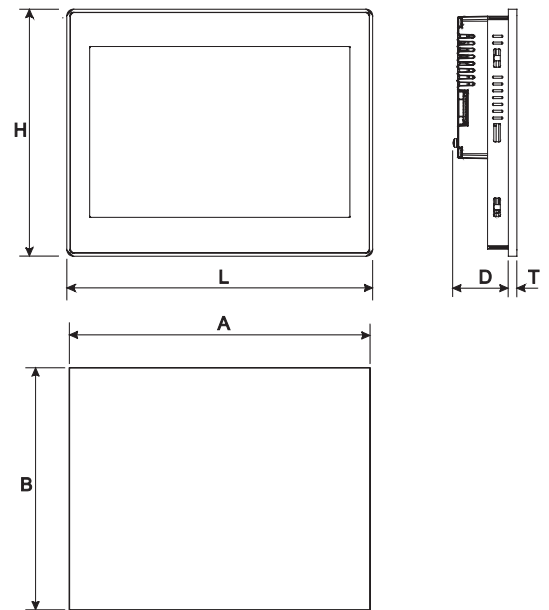
Cut-out

# Ordering Information

| Model | Part Number | Description |
|---|---|---|
| eX710G | +EX710GU5P1 | 10.1" widescreen TFT color with multitouch projected capacitive touchscreen. 3 Ethernet ports, 1 serial port, 2 USB ports. JMobile runtime. |