eX707G Tech-Note

Outdoor HMI 7” TFT, PCAP Touch, sunlight-readable with bonding

- 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

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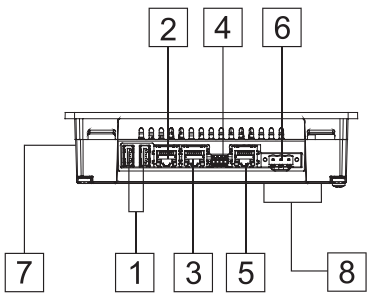
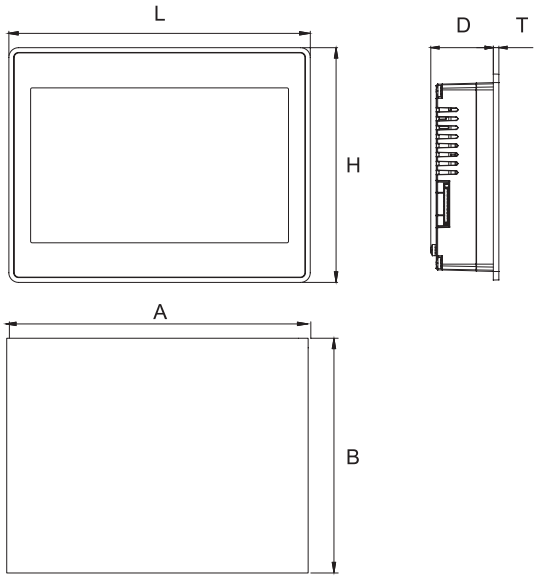
eX707G - Technical Data

System Resources	
Display - Colors	7" TFT 16:9 LED - 16M
Resolution	800x480, WVGA
Brightness	600 Cd/m² typ.
Dimming	to 0%
Touchscreen	True Glass Projected Capacitive, Multitouch
CPU	32-bit RISC 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	0.7 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 modules 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	187x147 mm (7.36x5.79")
Cutout AxB	176x136 mm (6.93x5.35")
Depth D+T	47+8 mm (1.85+0.31")
Weight	1.5 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 -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 -20°C ≤ Tamb ≤ +60°C or 0°C ≤ Tamb ≤ +50°C
UL	cULus: UL61010-1 / UL61010-2-201
UL	cULus: Class I Div. 2
DNV-GL	Yes
EU RO MR	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
eX707G	+EX707GU5P1	Outdoor HMI 7" TFT, PCAP Touch, sunlight-readable with bonding, 3x Ethernet, JMobile runtime

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