

eX705 Tech-Note

5" TFT color with multitouch projected capacitive touchscreen.
2 Ethernet ports, 1 serial port, 1 USB port. JMobile runtime.



- 5" TFT color display, resolution 800x480 pixel, 64K colors.
Dimmable LED backlight
- Projected capacitive touchscreen. True glass design.
Multitouch operation
- 2 Ethernet ports
- SD Card slot
- Plug-in module for system expansion

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 5" widescreen display with resolution of 800x480 guarantee great optical performance; with the support of multitouch gesture programming they can create the most natural human interfaces.

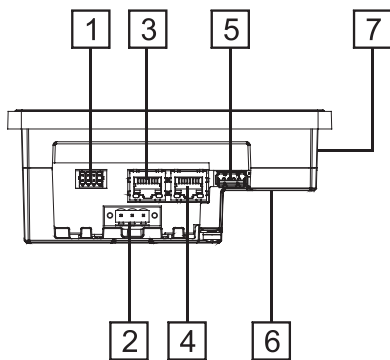
eX Series 700 HMI products have been designed to run the JMobile software.

- JMobile runtime included
- Requires JMobile V2.6 or higher
- Supports JMcloud secure connectivity with full network separation
- OPC UA Server and Client
- Optional CODESYS V3 runtime with choice of EtherCAT, Profinet, Ethernet IP and Powerlink

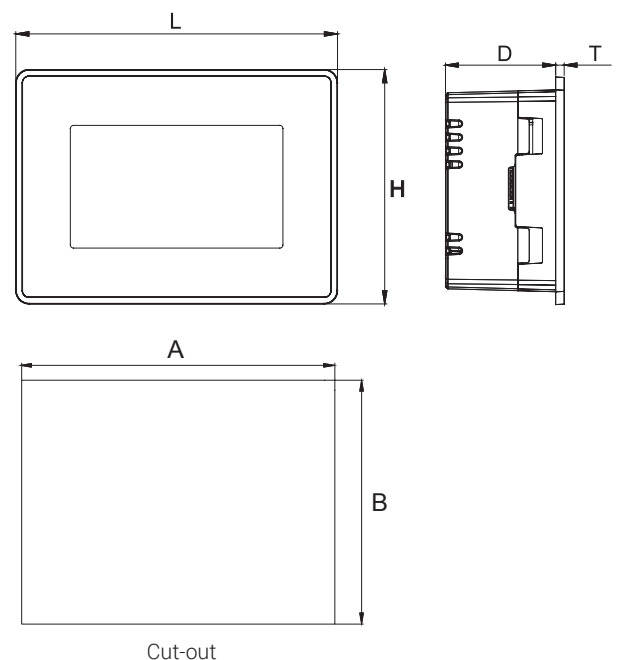
Technical Data



System Resources	
Display - Colors	5" TFT 16:9 LED - 64K
Resolution	800x480, WVGA
Brightness	300 Cd/m ² typ.
Dimming	to 0%
Touchscreen	True Glass Projected Capacitive, Multitouch
CPU	ARM Cortex-A8 - 1 GHz
Operating System	Linux RT
Flash	4 GB
RAM	512 MB
Real Time Clock, RTC Back-up, Buzzer	Yes
Interface	
Ethernet port	2 (port 0 - 10/100, port 1 - 10/100)
USB port	1 (Host V2.0, max. 500 mA)
Serial port	1 (RS-232, RS-485, RS-422, software configurable) Max 2 serial ports using plug-in modules.
SD card	Yes
Expansion	1 slot for plug in modules
Ratings	
Power supply	24 Vdc (10 to 32 Vdc)
Current Consumption	0.6 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)
Dimensions and Weights	
Faceplate LxH	147x107 mm (5.78x4.21")
Cutout AxB	136x96 mm (5.35x3.78")
Depth D+T	52+8 mm (2.40+0.31")
Weight	1.3 Kg
Approvals	
CE	Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environments
UL	cULus: UL61010-1 / UL61010-2-201
UL	cULus: Class 1 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
LR	Yes
EU RO MR	Yes
RCM	Yes



- 1 Serial port
- 2 Power supply
- 3 Ethernet port 1 (10/100 Mb)
- 4 Ethernet port 0 (10/100 Mb)
- 5 USB port 1
- 6 Expansion slots for plug-in modules
- 7 SD Card slot



Cut-out

Ordering Information

Model	Part Number	Description
eX705	+EX705U5P1	5" widescreen TFT color with multitouch projected capacitive touchscreen. 2 Ethernet ports, 1 serial port, 1 USB port. JMobile runtime.