

# eX705 Tech-Note

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## 5" TFT - ARM Cortex A8 2 Ethernet, 1 Serial, 1 USB ports

- 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.

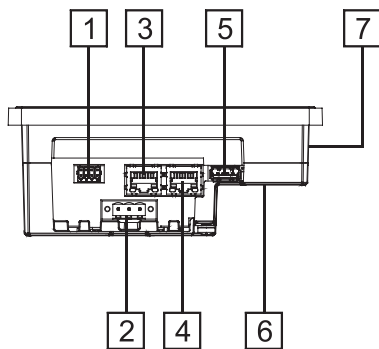
eX Series 700 HMI products have been designed to run the JMobile software.

- JMobile runtime included
- Requires JMobile V2.6 or higher
- Supports 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

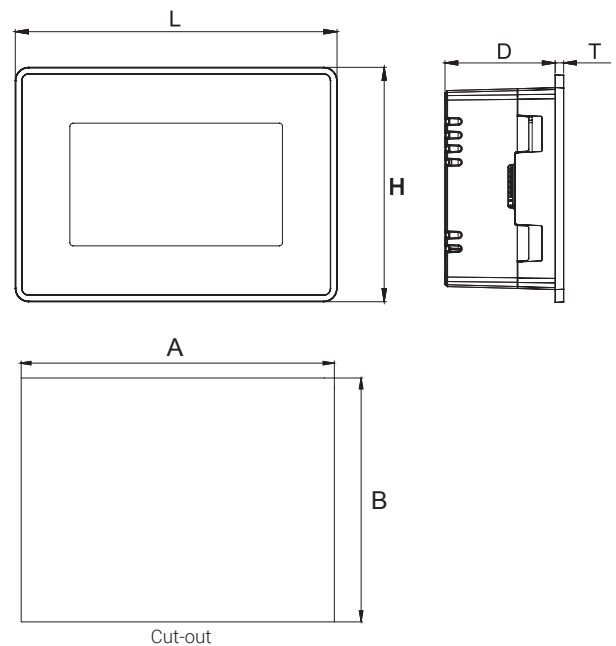
# eX705 - Technical Data



| System Resources                     |  |
|--------------------------------------|--|
| Display - Colors                     | 5" TFT 16:9 LED - 64K  |
| Resolution                           | 800x480, WVGA  |
| Brightness                           | 300 Cd/m <sup>2</sup> 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)<br>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)<br>Plug-in modules and USB devices may limit<br>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)<br>Type: 12, 4X  |
| 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<br>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



## 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. |