

## eX705M - Tech Note

## 5" TFT, PCAP Touchscreen, 2x Ethernet Ports, JMobile runtime

- 5" TFT color display, resolution 800x480 pixel
- Dimmable LED backlight
- · Projected capacitive touchscreen. True glass design.
- · Multitouch operation
- · 64 bit quad core CPU
- · pSLC mode for higher reliability
- Operating Temperature -20°C to +60°C
- IECEx, ATEX, 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 5 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.

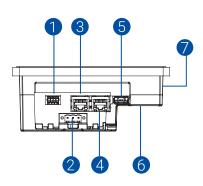
## eX705M - Technical Data





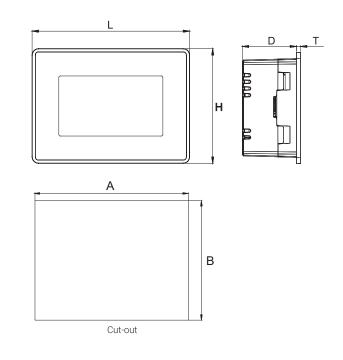


System Resources	F#TET 44 0 LED - 444
Display - Colors	5" TFT 16:9 LED - 64K
Resolution	800x480, WVGA
Brightness	300 Cd/m2 typ.
Dimming	Yes
Touchscreen	True Glass Projected Capacitive, Multitouch
CPU	64-bit RISC quad core - 1.6 GHz
Operating System	Linux
Flash	4 GB (eMMC pSLC)
RAM	2 GB
FRAM	64 KB
RT-Clock, RTCBack-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	0.57A at 24 Vdc (max.)
Input Protection	Electronic
Battery	Rechargeable Lithium battery, not user-replaceable
Battery Environment Conditions	Rechargeable Lithium battery, not user-replaceable
Environment Conditions	Rechargeable Lithium battery, not user-replaceable  -20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit
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Environment Conditions Operating Temperature Storage Temperature	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C
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Environment Conditions Operating Temperature Storage Temperature Operating / Storage Humidity	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing Yes, printed circuit boards
Environment Conditions Operating Temperature Storage Temperature Operating / Storage Humidity Conformal Coating Protection Class	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing
Environment Conditions Operating Temperature Storage Temperature Operating / Storage Humidity Conformal Coating Protection Class Dimensions and Weights	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing Yes, printed circuit boards IP66 (front), IP20 (rear) - Type: 12, 4X
Environment Conditions Operating Temperature Storage Temperature Operating / Storage Humidity Conformal Coating Protection Class Dimensions and Weights Faceplate LxH	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing Yes, printed circuit boards IP66 (front), IP20 (rear) - Type: 12, 4X
Environment Conditions Operating Temperature Storage Temperature Operating / Storage Humidity Conformal Coating Protection Class Dimensions and Weights Faceplate LxH Cutout AxB	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing Yes, printed circuit boards IP66 (front), IP20 (rear) - Type: 12, 4X  147x107 mm (5.78x4.21") 136x96 mm (5.35x3.78")
Environment Conditions  Operating Temperature  Storage Temperature  Operating / Storage Humidity  Conformal Coating  Protection Class  Dimensions and Weights  Faceplate LxH  Cutout AxB  Depth D+T	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing Yes, printed circuit boards IP66 (front), IP20 (rear) - Type: 12, 4X  147x107 mm (5.78x4.21") 136x96 mm (5.35x3.78") 52+8 mm (2.40+0.31")
Environment Conditions Operating Temperature Storage Temperature Operating / Storage Humidity Conformal Coating Protection Class Dimensions and Weights Faceplate LxH Cutout AxB Depth D+T Weight	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing Yes, printed circuit boards IP66 (front), IP20 (rear) - Type: 12, 4X  147x107 mm (5.78x4.21") 136x96 mm (5.35x3.78")
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Environment Conditions Operating Temperature Storage Temperature Operating / Storage Humidity Conformal Coating Protection Class Dimensions and Weights Faceplate LxH Cutout AxB Depth D+T Weight Approvals CE ATEX	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing Yes, printed circuit boards IP66 (front), IP20 (rear) - Type: 12, 4X  147x107 mm (5.78x4.21") 136x96 mm (5.35x3.78") 52+8 mm (2.40+0.31") 0.8 Kg  Electromagnetic Compatibility Directive 2014/30/EU (EMC) Zone 2/22: II 3 G Ex ec IIC T5T4 Gc, II 3 D Ex tc IIIC T95°C Dc -20°C ≤ Tamb ≤ +60°C or 0°C ≤ Tamb ≤ +50°C
Environment Conditions Operating Temperature Storage Temperature Operating / Storage Humidity Conformal Coating Protection Class Dimensions and Weights Faceplate LxH Cutout AxB Depth D+T Weight Approvals CE	-20° to +60 °C (vertical installation). Plug-in modules and USB devices may limit max temperature to +50 °C -20°C to +70°C 5-85% RH, non condensing Yes, printed circuit boards IP66 (front), IP20 (rear) - Type: 12, 4X  147x107 mm (5.78x4.21") 136x96 mm (5.35x3.78") 52+8 mm (2.40+0.31") 0.8 Kg  Electromagnetic Compatibility Directive 2014/30/EU (EMC) Zone 2/22: II 3 G Ex ec IIC T5T4 Gc, II 3 D Ex tc IIIC T95°C Dc -20°C ≤ Tamb ≤ +60°C or 0°C ≤ Tamb ≤ +50°C Zone 2/22: Ex ec IIC T5T4 Gc, Ex tc IIIC T95°C Dc
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- 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





Model	Part Number	Description
eX705M	+EX705MU5P1	HMI 5" TFT 800x480, PCAP Touch, 2x Ethernet, JMobile runtime