

eX707M - Tech Note

7" TFT, PCAP Touchscreen, 3x Ethernet Ports, JMobile runtime

- 7" TFT color display, resolution 800x480 pixel
- Dimmable LED backlight
- Projected capacitive touchscreen. True glass design.
- Multitouch operation
- 64 bit quad core CPU
- Operating Temperature -20°C to +60°C
- IECEx, ATEX, DNV-GL, 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 7 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.

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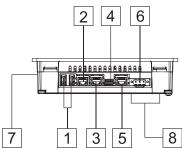
eX707M - Technical Data

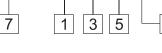




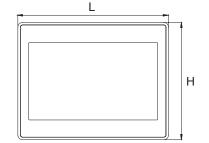


Display - Colors7' TFT 16.9 LED - 16MResolution800x480 WVGABrightness500 cd/m2DimmingYesTouchscreenTrue Glass Projected Capacitive, MultitouchCPU64-bit RISC guad core - 1.6 GHzOperating SystemLinuxFlash8 GBRAM2 GBFRAM64 KBRT-Clock, RTCBack-up, BuzzerYesInterface1Ethernet port3 (port 0 - 10/100/1000, port 1 - 10/100, port 2 - 10/100)USB port2 (Host V2.0, max. 500 mA)Serial port2 (Host V2.0, max. 500 mA)Serial port2 (Host V2.0, max. 500 mA)Serial port2 slot for plug in modules.SD cardYesExpansion2 slot for plug in modulesRatings-Power supply24 Vdc (10 to 32 Vdc)Current Consumption0.7 A at 24 Vdc (max)Input ProtectionElectronicBatteryRechargeable Lithium battery, not user-replaceableEnvironment Conditions-Operating Temperature-20° to +60° C (vertical installation). Plug-in and USB devices may limit max temperature to +50° COperating Storage Humidity5-85%, RH, non condensingProtection Class187/x147 mm (7.36x5.79)Cutout Av8176/x136 mm (6.93x5.35)Dept plat LxH187/x147 mm (7.36x5.79)Cutout Av8176/x136 mm (6.93x5.35)Dept plat LxH187/x137 mm (7.36x5.79)Cutout Av87/x136 mm (6.93x5.35)Dept bTT47+8 mm (1.85+0.31')<	System Resources	
Brightness500 cd/m2DimmingYesTrue Glass Projected Capacitive, MultitouchCPU64-bit RISC quad core - 1.6 GHzOperating SystemLinuxFlash8 GBRAM2 GBFRAM64 KBRT-Clock, RTCBack-up, BuzzerYesInterfaceInterfaceEthernet port3 (port 0 - 10/100/1000, port 1 - 10/100, port 2 - 10/100)USB port2 (Host V2.0, max. 500 mA)Serial port1 (RS-322, RS-485, RS-422, software configurable). Max 3 serial portsusing plug-in modules.So cardYesYesZharting SPower supply2 vik (10 to 32 Vdc)Current Consumption0.7 A at 24 Vdc (10 to 32 Vdc)Current Consumption0.7 A at 24 Vdc (max.)Input ProtectionElectronicBattryRechargeable Lithium battery, not user-replaceableEnvironment Conditions-20° to +60 °C (vertical installation). Plug-in and USB devices may limit max temperature to +50 °COperating Temperature-20° to +60 °C (vertical installation). Plug-in and USB devices may limit max temperature to +50 °COperating / Storage Humidity5-85% RH, non condensingProtection ClassIP66 (front), IP20 (rear) - Type: 12, 4XDimensions and Weights-Faceplate LxH187x147 mm (7.36x5.79°)Cutout AxB176x136 mm (6.39x5.35)Operating / Storage Humidity5-85% RH, non condensingProteoxis-CEElectronic Compatibility Directive 2014/30/EU (EMC)Caroc 2/22: II 3 G Ex	Display - Colors	7" TFT 16:9 LED - 16M
DimmingYesTouchscreenTrue Glass Projected Capacitive, MultitouchCPU64-bit RISC quad core - 1.6 GHzOperating SystemLinuxFlash8 GBRAM2 GBFRAM64 KBRTCBack-up, BuzzerYesInterfaceEthernet port3 (port 0 - 10/100/1000, port 1 - 10/100, port 2 - 10/100)USB port2 (Host V2.0, max. 500 mA)Serial port1 (RS-323, RS-485, RS-422, software configurable). Max 3 serial portsusing plug-in modules.SD cardSD cardYesExpansion2 slot for plug in modulesPower supply24 Vdc (10 to 32 Vdc)Current Consumption0.7 A at 24 Vdc (max.)Input ProtectionElectronicBatteryRechargeable Lithium battery, not user-replaceableEnvironment Conditions-20° to +60° C (vertical installation). Plug-in and USB devices may limit max temperature to +50° COperating Temperature-20° to +70° COperating Storage Humidity5-85% RH, non condensing Protection ClassDimensions and Weights176x136 mm (7.36x5.79)Cutout Ax8176x136 mm (7.36x5.79)Cutout Ax8 <td>Resolution</td> <td>800x480 WVGA</td>	Resolution	800x480 WVGA
TouchscreenTrue Glass Projected Capacitive, MultitouchCPU64-bit RISC quad core - 1.6 GHzOperating SystemLinuxFlash8 GBRAM2 GBFRAM64 KBFRIClock, RTCBackup, BuzzerYesInterfaceEthernet port2 (Host V2.0, max. 500 mA)Serial port2 (Host V2.0, max. 500 mA)Serial port1 (RS-322, RS-485, RS-422, software configurable). Max 3 serial portsusing plug-in modules.SD cardYesExpansion2 slot for plug in modulesRatingsPower supply24 Vdc (10 to 32 Vdc)Current Consumption0.7 A at 24 Vdc (max.)Input ProtectionElectronicBatteryRechargeable Lithium battery, not user-replaceableEnvironment Conditions-20° to 640 °C (vertical installation). Plug-in and USB devices may limit max temperature to +50 °COperating Temperature-20° to 640 °C (vertical installation). Plug-in and USB devices may limit max temperature to +50 °CStorage Temperature-20° to 640 °C (vertical installation). Plug-in and USB devices may limit max temperature to +50 °COperating / Storage Humidity5858; RH, non condensing IP66 (front). IP20 (rear) - Type: 12, 4XDimensions and Weights176x136 mm (6.93x5.35)Depth D+T47+8 mm (1.8540.31")Weight1.5 KgApprovalsCCCEElectromagnetic Compatibility Directive 2014/30/EU (EMC) 20° c Samb s +60°C or 0°C s Tamb s +50°CULCUus: VL61010-1 / UL61010-2.201ULCUL	Brightness	500 cd/m2
CPU64-bit RISC quad core - 1.6 GHzOperating SystemLinuxFlash8 GBRAM2 GBFRAM64 KBRT-Clock, RTCBackup, BuzzerYesInterfaceInterfaceEthernet port3 (port 0 - 10/100/1000, port 1 - 10/100, port 2 - 10/100)USB port2 (Host V2.0, max. 500 mA)Serial port1 (RS-232, RS-485, RS-422, software configurable). Max 3 serial portsusing plug-in modules.SD cardSp cardYesExpansion2 soft of plug in modulesRatingsInterfacePower supply24 Vdc (10 to 32 Vdc)Current Consumption0.7 A at 24 Vdc (max.)Input ProtectionElectronicBatteryRechargeable Lithium battery, not user-replaceableEnvironment Conditions-20° to +60°C (vertical installation). Plug-in and USB devices may limit max temperature to +50°COperating / Storage Humidity545% RH, non condensingProtection ClassIP66 (front), IP20 (rear) - Type: 12, 4XDimensions and Weights137k 147 mm (7.36x5.79)Cutout AxB17k 136 mm (6.93x5.35)Depth b+T47+8 mm (1.85+0.31')Weight1.5 KgApprovalsCore or 2/22: II 3 G Ex en II CT 5T 4 Gr, II 3 D Ex to IIIC T95°C Dc -20°C s Tamb s +60°C or 0°C s Tamb s +50°CCEElectromagnetic Compatibility Directive 2014/30/EU (EMC)ArtEXZone 2/22: II 3 G Ex en III CT 5T 4 Gr, II 3 D Ex to IIIC T95°C Dc -20°C s Tamb s +60°C or 0°C s Tamb s +50°CULCULus: UL61010-17 / UL61010-2/201UL	Dimming	Yes
Operating SystemLinuxFlash8 GBRAM2 GBFRAM64 KBRT-Clock, RTCBack-up, BuzzerYesInterfaceEthernet port3 (port 0 - 10/100/1000, port 1 - 10/100, port 2 - 10/100)USB port2 (Host V2.0, max. 500 mA)Serial port1 (RS-232, RS-485, RS-422, software configurable). Max 3 serial portsusing plug-in modules.SD cardSD cardYesExpansion2 slot for plug in modulesRatingsPower supply24 Vdc (10 to 32 Vdc)Current Consumption0.7 A at 24 Vdc (max.)Input ProtectionElectronicBatteryRechargeable Lithium battery, not user-replaceableEnvironment Conditions-20° to +60 °C (vertical installation). Plug-in and USB devices may limit max temperature to +50 °COperating 7 Storage Humidity5-85k RH, non condensing Protection ClassIP66 (front), IP20 (rear) - Type: 12, 4XDimensions and WeightsFaceplate LxH187x147 mm (7.36x5.79')Cutout AxB176x136 mm (6.93x5.35')Dept D+T47+8 mm (1.85+0.31')Weight1.5 KgApprovalsCEElectromagnetic Compatibility Directive 2014/30/EU (EMC) 20° C s Tamb s +60°C or 0° C s Tamb s +50°CULULULus: UL610101 / UL61010-2-201ULULus: UL610101 / UL61010-2-201ULULus: UL610101 / UL61010-2-201ULULus: UL610101 / UL61010-2-201ULULus: UL610101 / UL6101 / 2-201ULULus: UL610101 /	Touchscreen	True Glass Projected Capacitive, Multitouch
Flash8 GBRAM2 GBFRAM64 KBRTClock, RTCBack-up, BuzzerYesInterfaceEthernet port2 (Host V2 0, max. 500 mA)Serial port2 slot for plug in modules.SD cardYesExpansion2 slot for plug in modulesRatings	CPU	64-bit RISC quad core - 1.6 GHz
RAM2 GBFRAM64 KBRT-Clock, RTCBack-up, BuzzerYesInterfaceEthernet port3 (port 0 - 10/100/1000, port 1 - 10/100, port 2 - 10/100)USB port2 (Host V2.0, max. 500 mA)Serial port1 (RS-232, RS-485, RS-422, software configurable). Max 3 serial portsusing plug-in modules.SD cardSD cardYesExpansion2 slot for plug in modulesRatingsPower supply24 Vdc (10 to 32 Vdc)Current Consumption0.7 A at 24 Vdc (max.)Input ProtectionElectronicBatteryRechargeable Lithium battery, not user-replaceableEnvironment Conditions-20° to 460 °C (vertical installation). Plug-in and USB devices may limit max temperature to +50 °COperating Temperature-20° to 460 °C (vertical installation). Plug-in and USB devices may limit max temperature to +50 °COperating Visrage Humidity5-85% RH, non condensing Protection ClassProtection ClassIP66 (front), IP20 (rear) - Type: 12, 4XDimensions and Weights176x136 mm (6.93x5.35')Cutout AxB176x136 mm (6.93x5.35')Dept D+T47+8 mm (1.85+0.31')Weight1.5 KgApprovals-20° c s Tamb s +60° c or 0° c s Tamb s +50° CIECExZone 2/22: Ix ce IIC T5T4 Ge, Ix to IIIC T95°C Dc -20° c s Tamb s +60° c or 0° c s Tamb s +50° CULULUULUS (L01010-1 / ULG1010-2/201ULULUS (L01010-1 / ULS IDIV 2DNVYes	Operating System	Linux
FRAM64 KBRTClock, RTCBack-up, BuzzerYesInterface3 (port 0 - 10/100/1000, port 1 - 10/100, port 2 - 10/100)Ehernet port2 (Host V2.0, max. 500 mA)USB port2 (Host V2.0, max. 500 mA)Serial port1 (RS-232, RS-485, RS-422, software configurable). Max 3 serial portsusing plug-in modules.So cardSD cardYesExpansion2 slot for plug in modulesRatings	Flash	8 GB
RT-Clock, RTCBack-up, BuzzerYesInterfaceEthernet port3 (port 0 - 10/100/1000, port 1 - 10/100, port 2 - 10/100)USB port2 (Host V2.0, max. 500 mA)Serial port1 (RS-232, RS-485, RS-422, software configurable). Max 3 serial ports using plug-in modules.SD cardYesExpansion2 slot for plug in modulesRatings	RAM	2 GB
InterfaceEthernet port3 (port 0 - 10/100/1000, port 1 - 10/100, port 2 - 10/100)USB port2 (Host V2.0, max. 500 mA)Serial port1 (RS-232, RS-485, RS-422, software configurable). Max 3 serial portsusing plug-in modules.SD cardYesExpansion2 slot for plug in modulesRatingsPower supply24 Vdc (10 to 32 Vdc)Current Consumption0.7 A at 24 Vdc (max.)Input ProtectionElectronicBatteryRechargeable Lithium battery, not user-replaceableEnvironment Conditions-20° to +60 °C (vertical installation). Plug-in and USB devices may limit max temperature to +50 °COperating Temperature-20° to +60 °C (vertical installation). Plug-in and USB devices may limit max temperature to +50 °CStorage Temperature-20° to +60 °C (vertical installation). Plug-in and USB devices may limit max temperature to +50 °CStorage Temperature-20° to 10° C (vertical installation). Plug-in and USB devices may limit max temperature to +50 °CStorage Temperature-20° to 10° C (vertical installation). Plug-in and USB devices may limit max temperature to +50 °CDimensions and Weights-10° C (vertical installation). Plug-in and USB devices may limit max temperature to +50 °CFaceplate LxH187X147 mm (7.36x5.79')Cutu t AxB176x136 mm (6.93x5.35')Depth D+T4748 mm (1.85+0.31'')Weight1.5 KgApprovals-20°C ≤ Tamb ≤ +60°C or 0°C < Tamb ≤ te IIIC T95°C Dc -20°C ≤ Tamb ≤ +60°C or 0°C < Tamb ≤ +50°C	FRAM	64 KB
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USB port2 (Host V2.0, max. 500 mA)Serial port1 (RS-232, RS-485, RS-422, software configurable). Max 3 serial ports using plug-in modules.SD cardYesExpansion2 slot for plug in modulesRatings0.7 A at 24 Vdc (10 to 32 Vdc)Power supply0.7 A at 24 Vdc (max.)Input ProtectionElectronicBatteryRechargeable Lithium battery, not user-replaceableEnvironment Conditions-20° to +60 °C (vertical installation). Plug-in and USB devices may limit max temperature to +50 °COperating Temperature-20° to +60 °C (vertical installation). Plug-in and USB devices may limit max temperature to +50 °CStorage Temperature-20° to to +70°COperating / Storage Humidity5-85% RH, non condensing Protection ClassProtection ClassIP66 (front), IP20 (rear) - Type: 12, 4XDimensions and WeightsTofx136 mm (6.93x5.35°)Depth D+T47+8 mm (1.85+0.31°)Weight1.5 KgApprovalsCCEElectromagnetic Compatibility Directive 2014/30/EU (EMC)ATEX-20°C < Tamb s +60°C or 0°C < Tamb s +50°C	Interface	
Serial port1 (RS-232, RS-485, RS-422, software configurable). Max 3 serial ports using plug-in modules.SD cardYesExpansion2 slot for plug in modulesRatingsPower supplyPower supply24 Vdc (10 to 32 Vdc)Current Consumption0.7 A at 24 Vdc (max.)Input ProtectionElectronicBatteryRechargeable Lithium battery, not user-replaceableEnvironment Conditions-20° to +60 °C (vertical installation). Plug-in and USB devices may limit max temperature to +50 °COperating Temperature-20° to +60 °C (vertical installation). Plug-in and USB devices may limit max temperature to +50 °CStorage Temperature-20° to +60 °C (vertical installation). Plug-in and USB devices may limit max temperature to +50 °COperating / Storage Humidity5-85% RH, non condensing Protection ClassIP66 (front), IP20 (rear) - Type: 12, 4XDimensions and WeightsFaceplate LXH187x147 mm (7.36x5.79°)Cutout AxB176x136 mm (6.93x5.35°)Depth D+T47+8 mm (1.85+0.31°)Weight1.5 KgApprovalsCEElectromagnetic Compatibility Directive 2014/30/EU (EMC)ATEX20° C < Tamb s +60°C or 0° C < Tamb s +50°C	Ethernet port	3 (port 0 - 10/100/1000, port 1 - 10/100, port 2 - 10/100)
Serial portusing plug-in modules.using the product of the pro	USB port	2 (Host V2.0, max. 500 mA)
Expansion2 slot for plug in modulesRatingsPower supply24 Vdc (10 to 32 Vdc)Current Consumption0.7 A at 24 Vdc (max.)Input ProtectionElectronicBatteryRechargeable Lithium battery, not user-replaceableEnvironment Conditions -20° to $+60^{\circ}$ C (vertical installation). Plug-in and USB devices may limit max temperature to $+50^{\circ}$ COperating Temperature -20° to $+60^{\circ}$ C (vertical installation). Plug-in and USB devices may limit max temperature to $+50^{\circ}$ CStorage Temperature -20° to $+70^{\circ}$ COperating / Storage Humidity $5 \cdot 85^{\circ}$ RH, non condensing IP66 (front), IP20 (rear) - Type: 12, 4XDimensions and WeightsTofx136 mm (6.93x5.35")Faceplate LxH187x147 mm (7.36x5.79")Cutout AxB176x136 mm (6.93x5.35")Depth D+T47+8 mm (1.85+0.31")Weight1.5 KgApprovalsCEElectromagnetic Compatibility Directive 2014/30/EU (EMC)ATEXZone $2/22$: II 3 G E x et IIC T5T4 Gc, II 3 D Ex to IIIC T95"C Dc -20° c \leq Tamb $\leq +60^{\circ}$ C or $0^{\circ} c \leq$ Tamb $\leq +50^{\circ}$ CIECExZone $2/22$: Ex et IIC T5T4 Gc, Ex to IIIC T95"C Dc -20° c \leq Tamb $\leq +50^{\circ}$ C or $0^{\circ} c \leq$ Tamb $\leq +50^{\circ}$ CULcULus: UL61010-1 / UL61010-2-201ULcULus: Class 1 Div 2DNVYes	Serial port	
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Power supply24 Vdc (10 to 32 Vdc)Current Consumption0.7 A at 24 Vdc (max.)Input ProtectionElectronicBatteryRechargeable Lithium battery, not user-replaceableEnvironment Conditions -20° to $+60^{\circ}$ C (vertical installation). Plug-in and USB devices may limit max temperature to $+50^{\circ}$ COperating Temperature -20° to $+70^{\circ}$ COperating / Storage Humidity $5\cdot85^{\circ}$ RH, non condensing Protection ClassProtection ClassIP66 (front), IP20 (rear) - Type: 12, 4XDimensions and Weights -76° to $+70^{\circ}$ CFaceplate LxH187x147 mm (7.36x5.79")Cutout AxB176x136 mm (6.93x5.35")Depth D+T47+8 mm (1.85+0.31")Weight1.5 KgApprovalsZone 2/22: II 3 G Ex ec IIC T5T4 Gc, II 3 D Ex to IIIC T95°C Dc -20°C \leq Tamb $\leq +60^{\circ}$ C or 0°C \leq Tamb $\leq +50^{\circ}$ CIECExZone 2/22: Ex ec IIC T5T4 Gc, Ex to IIIC T95°C Dc -20°C \leq Tamb $\leq +60^{\circ}$ C or 0°C \leq Tamb $\leq +50^{\circ}$ CULcULus: UL61010-1 / UL61010-2-201ULcULus: Class 1 Div 2DNVYes	Expansion	2 slot for plug in modules
Current Consumption 0.7 A at $24 \text{ Vdc} (\text{max})$ Input ProtectionElectronicBatteryRechargeable Lithium battery, not user-replaceableEnvironment Conditions $-20^{\circ} \text{ to } +60^{\circ} \text{ C} (\text{vertical installation}). Plug-in and USB devices maylimit max temperature to +50^{\circ} \text{ C}Operating Temperature-20^{\circ} \text{ to } +60^{\circ} \text{ C} (\text{vertical installation}). Plug-in and USB devices maylimit max temperature to +50^{\circ} \text{ C}Operating Temperature-20^{\circ} \text{ c} \text{ to } +70^{\circ} \text{ C}Operating / Storage Humidity5-85\% \text{ RH}, non condensingProtection ClassIP66 (front), IP20 (rear) - Type: 12, 4XDimensions and WeightsFaceplate LxH187x147 \text{ mm} (7.36x5.79")Cutout AxB176x136 \text{ mm} (6.93x5.35")Depth D+T47+8 \text{ mm} (1.85+0.31")Weight1.5 \text{ Kg}ApprovalsCEElectromagnetic Compatibility Directive 2014/30/EU (EMC)ATEX2 \text{ one } 2/22 \text{ : II 3 G Ex ec IIC T5T4 Gc, II 3 D Ex to IIIC T95°C Dc} -20°C < Tamb \pm 460^{\circ} \text{ C or 0°C } \leq Tamb \pm \pm 50^{\circ} \text{ C}IECEx2 \text{ one } 2/22 \text{ : Ex ec IIC T5T4 Gc, Ex to IIIC T95°C Dc} -20°C < Tamb \pm \pm 60^{\circ} \text{ C or 0°C } \in Tamb \pm \pm 50^{\circ} \text{ C}ULcULus: UL61010-1 / UL61010-2-201ULcULus: Class 1 Div 2DNVYes$	Ratings	
Input ProtectionElectronicBatteryRechargeable Lithium battery, not user-replaceableEnvironment ConditionsOperating Temperature -20° to $+60^{\circ}$ C (vertical installation). Plug-in and USB devices may limit max temperature to $+50^{\circ}$ CStorage Temperature -20° C to $+70^{\circ}$ COperating / Storage Humidity $5-85\%$ RH, non condensingProtection ClassIP66 (front), IP20 (rear) - Type: 12, 4XDimensions and Weights -20° C to $+70^{\circ}$ CFaceplate LxH $187x147 \text{ mm} (7.36x5.79")$ Cutout AxB $176x136 \text{ mm} (6.93x5.35")$ Depth D+T $47+8 \text{ mm} (1.85+0.31")$ Weight 1.5 Kg Approvals -20° C $< Tamb s + 60^{\circ}$ C or 0° C $< Tamb s + 50^{\circ}$ CIECEx $Zone 2/22: II 3 G Ex ec IIC T5T4 Gc, II 3 D Ex to IIIC T95°C Dc-20^{\circ}C < Tamb s + 60^{\circ}C or 0^{\circ}C < Tamb s + 50^{\circ}CULcULus: UL61010-1 / UL61010-2-201ULcULus: Class 1 Div 2DNVYes$	Power supply	24 Vdc (10 to 32 Vdc)
BatteryRechargeable Lithium battery, not user-replaceableEnvironment ConditionsOperating Temperature -20° to $+60^{\circ}$ C (vertical installation). Plug-in and USB devices may limit max temperature to $+50^{\circ}$ CStorage Temperature -20° C to $+70^{\circ}$ COperating / Storage Humidity $5\cdot85^{\circ}$ RH, non condensing IP66 (front), IP20 (rear) - Type: 12, 4XDimensions and Weights -20° C for $+70^{\circ}$ CFaceplate LxH187x147 mm (7.36x5.79")Cutout AxB176x136 mm (6.93x5.35")Depth D+T47+8 mm (1.85+0.31")Weight1.5 KgApprovals $Zone 2/22: II 3 G Ex ec IIC T5T4 Gc, II 3 D Ex tc IIIC T95°C Dc-20°C < Tamb s +60^{\circ}C or 0^{\circ}C \leq Tamb s +50^{\circ}CIECExZone 2/22: Ex ec IIC T5T4 Gc, Ex tc IIIC T95°C Dc-20°C \leq Tamb s +60^{\circ}C or 0^{\circ} C \leq Tamb s +50^{\circ}CULcULus: UL61010-1 / UL61010-2-201ULcULus: Class 1 Div 2DNVYes$	Current Consumption	0.7 A at 24 Vdc (max.)
Environment ConditionsOperating Temperature -20° to $+60^{\circ}C$ (vertical installation). Plug-in and USB devices may limit max temperature to $+50^{\circ}C$ Storage Temperature $-20^{\circ}C$ to $+70^{\circ}C$ Operating / Storage Humidity $5-85^{\circ}$ RH, non condensing IP66 (front), IP20 (rear) - Type: 12, 4XDimensions and WeightsFaceplate LxH187x147 mm (7.36x5.79")Cutout AxB176x136 mm (6.93x5.35")Depth D+T47+8 mm (1.85+0.31")Weight1.5 KgApprovalsCEElectromagnetic 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	Input Protection	Electronic
Operating Temperature-20° to +60 °C (vertical installation). Plug-in and USB devices may limit max temperature to +50 °CStorage Temperature-20°C to +70°COperating / Storage Humidity5-85% RH, non condensing IP66 (front), IP20 (rear) - Type: 12, 4XDimensions and WeightsFaceplate LxH187x147 mm (7.36x5.79")Cutout AxB176x136 mm (6.93x5.35")Depth D+T47+8 mm (1.85+0.31")Weight1.5 KgApprovalsCEElectromagnetic Compatibility Directive 2014/30/EU (EMC)ATEXZone 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°CIECExZone 2/22: Ex ec IIC T5T4 Gc, Ex tc IIIC T95°C Dc -20°C ≤ Tamb ≤ +60°C or 0°C ≤ Tamb ≤ +50°CULcULus: UL61010-1 / UL61010-2-201ULcULus: Class 1 Div 2DNVYes	Battery	Rechargeable Lithium battery, not user-replaceable
Operating Temperaturelimit max temperature to $+50 ^{\circ}$ CStorage Temperature -20° C to $+70^{\circ}$ COperating / Storage Humidity $5-85\%$ RH, non condensingProtection ClassIP66 (front), IP20 (rear) - Type: 12, 4XDimensions and WeightsFaceplate LxH187x147 mm (7.36x5.79")Cutout AxB176x136 mm (6.93x5.35")Depth D+T47+8 mm (1.85+0.31")Weight1.5 KgApprovalsCEElectromagnetic Compatibility Directive 2014/30/EU (EMC)ATEXZone 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°CIECExZone 2/22: Ex ec IIC T5T4 Gc, Ex tc IIIC T95°C Dc -20°C ≤ Tamb ≤ +60°C or 0°C ≤ Tamb ≤ +50°CULcULus: UL61010-1 / UL61010-2-201ULcULus: Class 1 Div 2DNVYes	Environment Conditions	
Operating / Storage Humidity5-85% RH, non condensingProtection ClassIP66 (front), IP20 (rear) - Type: 12, 4XDimensions and WeightsFaceplate LxH187x147 mm (7.36x5.79")Cutout AxB176x136 mm (6.93x5.35")Depth D+T47+8 mm (1.85+0.31")Weight1.5 KgApprovalsCEElectromagnetic Compatibility Directive 2014/30/EU (EMC)ATEXZone 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°CIECExZone 2/22: Ex ec IIC T5T4 Gc, Ex tc IIIC T95°C Dc -20°C ≤ Tamb ≤ +60°C or 0°C ≤ Tamb ≤ +50°CULcULus: UL61010-1 / UL61010-2-201ULcULus: Class 1 Div 2DNVYes	Operating Temperature	
Protection Class IP66 (front), IP20 (rear) - Type: 12, 4X Dimensions and Weights I 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 CE Electromagnetic Compatibility Directive 2014/30/EU (EMC) ATEX 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 IECEx UL cULus: UL61010-1 / UL61010-2-201 UL cULus: Class 1 Div 2 DNV Yes	Storage Temperature	-20°C to +70°C
Dimensions and Weights Image: Constraint of the second seco	Operating / Storage Humidity	5-85% RH, non condensing
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 CE Electromagnetic Compatibility Directive 2014/30/EU (EMC) ATEX 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 IECEx Zone 2/22: Ex ec IIC T5T4 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 1 Div 2 DNV Yes	Protection Class	IP66 (front), IP20 (rear) - Type: 12, 4X
Cutout AxB 176x136 mm (6.93x5.35") Depth D+T 47+8 mm (1.85+0.31") Weight 1.5 Kg Approvals CE CE Electromagnetic Compatibility Directive 2014/30/EU (EMC) ATEX 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 IECEx Zone 2/22: Ex ec IIC T5T4 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 1 Div 2 DNV Yes	Dimensions and Weights	
Depth D+T 47+8 mm (1.85+0.31") Weight 1.5 Kg Approvals CE CE Electromagnetic Compatibility Directive 2014/30/EU (EMC) ATEX 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 IECEx Zone 2/22: Ex ec IIC T5T4 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 1 Div 2 DNV Yes	Faceplate LxH	187x147 mm (7.36x5.79")
Weight 1.5 Kg Approvals Electromagnetic Compatibility Directive 2014/30/EU (EMC) CE Electromagnetic Compatibility Directive 2014/30/EU (EMC) ATEX 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 IECEx Zone 2/22: Ex ec IIC T5T4 Gc, Ex tc IIIC T95°C Dc UL cULus: UL61010-1 / UL61010-2-201 UL cULus: Class 1 Div 2 DNV Yes	Cutout AxB	176x136 mm (6.93x5.35")
Approvals CE Electromagnetic Compatibility Directive 2014/30/EU (EMC) ATEX 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 IECEx Zone 2/22: Ex ec IIC T5T4 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 1 Div 2 DNV Yes	Depth D+T	47+8 mm (1.85+0.31")
CEElectromagnetic Compatibility Directive 2014/30/EU (EMC)ATEXZone 2/22: II 3 G Ex ec IIC T5T4 Gc, II 3 D Ex tc IIIC T95°C Dc $-20°C \le Tamb \le +60°C or 0°C \le Tamb \le +50°C$ IECExZone 2/22: Ex ec IIC T5T4 Gc, Ex tc IIIC T95°C Dc $-20°C \le Tamb \le +60°C or 0°C \le Tamb \le +50°C$ ULcULus: UL61010-1 / UL61010-2-201ULcULus: Class 1 Div 2DNVYes	Weight	1.5 Kg
ATEX Zone $2/22$: II 3 G Ex ec IIC T5T4 Gc, II 3 D Ex tc IIIC T95°C Dc $-20°C \le Tamb \le +60°C \text{ or } 0°C \le Tamb \le +50°C$ IECEx Zone $2/22$: Ex ec IIC T5T4 Gc, Ex tc IIIC T95°C Dc $-20°C \le Tamb \le +60°C \text{ or } 0°C \le Tamb \le +50°C$ UL cULus: UL61010-1 / UL61010-2-201 UL cULus: Class 1 Div 2 DNV Yes	Approvals	
ATEX -20°C ≤ Tamb ≤ +60°C or 0°C ≤ Tamb ≤ +50°C IECEx Zone 2/22: Ex ec IIC T5T4 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 1 Div 2 DNV Yes	CE	Electromagnetic Compatibility Directive 2014/30/EU (EMC)
IECEX -20°C ≤ Tamb ≤ +60°C or 0°C ≤ Tamb ≤ +50°C UL cULus: UL61010-1 / UL61010-2-201 UL cULus: Class 1 Div 2 DNV Yes	ATEX	
UL cULus: Class 1 Div 2 DNV Yes	IECEx	
DNV Yes	UL	cULus: UL61010-1 / UL61010-2-201
	UL	cULus: Class 1 Div 2
RCM Yes	DNV	Yes
	RCM	Yes





A В Cut-out





- 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

Ordering Information

Model	Part Number	Description
eX707M	+EX707MU5P1	HMI 7" TFT 800x480, PCAP Touch, 3x Ethernet, JMobile runtime

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