

eSMART07M Tech-Note

HMI 7" TFT Resistive touch, 4 GB Flash memory, 1x Ethernet

- 7" TFT color display, LED backlight
- 800x480 pixel (WVGA) resolution, 64K colors
- Resistive touchscreen
- Ethernet port
- USB port



Highlights

The eSMART Series HMI products combine state-of-the-art features and top performance with an oustanding design. They have been designed to offer an outstanding price/performance ratio for challenging applications. They are the ideal choice for HMI applications including factory and building automation.

eSMART07 features a bright 7" TFT widescreen (16:9) display with a fully dimmable LED backlight.

- Compatible with JMobile Studio.
- Full vector graphic support. Native support of SVG graphic objects, trasparency and alpha blending.
- Screen object dynamics: control visibility and transparency, move, resize, rotate any object on screen. Change properties of basic and complex objects.
- Multilanguage applications with TrueType fonts. Easily create, install and maintain applications in multiple languages to meet global requirements.
- Data display in numerical, text, bargraph, analog gauges and graphic image formats.
- Rich set of state-of-the-art HMI features: data acquisition and logging, trend presentation, alarm handling, scheduler and timed actions (daily and weekly schedulers, exception dates), recipes, security and user management, e-mail and RSS feeds.
- Wide selection of communication drivers available with multiple-driver communication capability.
- Remote monitoring and control with Client-Server functionality.
- Off-line and on-line simulation with JMobile Studio.
- Powerful scripting language for automating HMI applications. Efficient script debugger improves productivity in application development.
- Rich gallery of objects and symbols

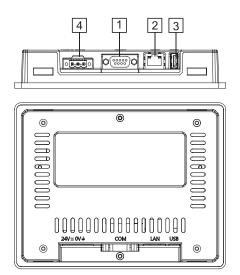
eSMART07M - Technical Data





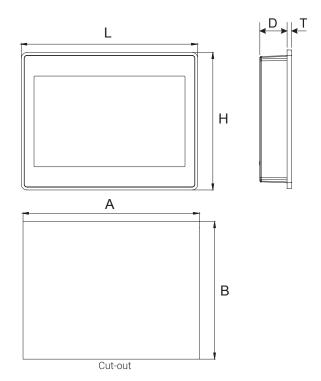


Display - Colors7" TFT 16.9 - 64KResolution800x480, WVGABrightness200 Cd/m" typ.DimmingYesTouchscreenResistiveCPU32-bit RISC single core - 1 GHzOperating SystemLinux 3.12Flash4 GBRAM512 MBReal Time Clock, RTC Back-up, BuzzerYesInterfaceTest State ControlEthernet port1 (port 0 - 10/100)USB port1 (Host v. 2.0, max. 500 mA)Serial port1 (Host v. 2.0, max. 500 mA)Serial port1 (Host v. 2.0, max. 500 mA)StardNoExpansionNoExpansionNoEthernet Consumption0.3 A at 24 Vdc (10 to 32 Vdc)Current Consumption0.3 A at 24 Vdc (max.)Input ProtectionAutomaticBatteryYes (Supercapacitor)Environment ConditionsOperating TempOperating Temp0 to 50 °C (vertical installation)Storage Temp-20°C to +70°COperating Temp1 (F3136 mm (6.93x5.35')Operating LuH176x136 mm (6.93x5.35')Depth D+T29+5 mm (1.14+0.19')WeightApprox 0.6 KgApproxalsCeCEElectromagnetic Compatibility (EMC) - Directive 2014/30/EUATEXZone 2: II 3 G Exic en IIC T6 GcULcULus: Class 1 Div 2DIV-GLYes	System Resources	
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Flash4 GBRAM512 MBReal Time Clock, RTC Back-up, BuzzerYesInterfaceEthernet port1 (port 0 - 10/100)USB port1 (Host v. 2.0, max. 500 mA)Serial port1 (Host v. 2.0, max. 500 mA)So cardNoExpansionNoRatingsPower supply24 Vdc (10 to 32 Vdc)Current Consumption0.3 A at 24 Vdc (max.)Input ProtectionAutomaticBatteryYes (Supercapacitor)Environment ConditionsOperating Temp0 to 50 °C (vertical installation)Storage Temp-20°C to +70°COperating / Storage Humidity5-85% RH, non condensingProtection ClassIP66 (front), IP20 (rear)Type: 2, 4XType: 2, 4XDimensions and Weights176x136 mm (6.93x5.35")Papeth D+T29+5 mm (1.14+0.19")WeightApprov 0.6 KgApprovalsCeCEElectromagnetic Compatibility (EMC) - Directive 2014/30/EUATEXZone 2: II 3 G Ex ic ec IIC T6 GcULcULus: Class 1 Div 2DNV-GLYes	Operating System	
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UL cULus: UL508 UL cULus: Class 1 Div 2 DNV-GL Yes	ATEX	Zone 2: II 3 G Exic ec IIC T6 Gc
UL cULus: Class 1 Div 2 DNV-GL Yes		
DNV-GL Yes	-	
	EU RO MR	Yes
RCM Yes		Yes



- 1 Serial Port
- 2 Ethernet Port
- 3 USB port (vers. 2.0 1.1)
- 4 Power Supply

Ordering Information



 Model
 Part Number
 Description

 eSMART07M
 +ESMA07MU301
 HMI 7" TFT, 800x480, Resistive touch, 4 GB Flash memory, 1x Ethernet, JMobile runtime

ptn0522 - Version 1.6