

# eSMART07M Tech-Note

#### 7" TFT - ARM Cortex A8 - 1 GHz

- 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

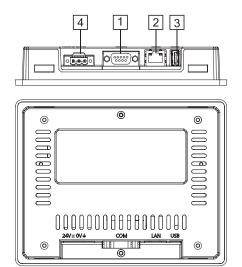
## eSMART07M - Technical Data





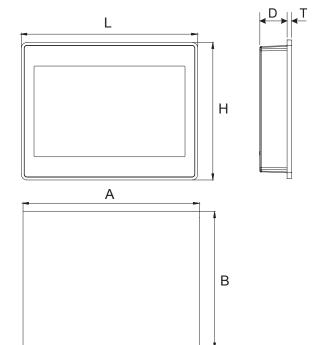


System Resources	
Display - Colors	7" TFT 16:9 - 64K
Resolution	800x480, WVGA
Brightness	200 Cd/m <sup>2</sup> typ.
Dimming	Yes
Touchscreen	Resistive
CPU	ARM Cortex-A8 - 1 GHz
Operating System	Linux 3.12
Flash	4 GB
RAM	512 MB
Real Time Clock, RTC Back-up, Buzzer	Yes
Interface	
Ethernet port	1 (port 0 - 10/100)
USB port	1 (Host v. 2.0, max. 500 mA)
Serial port	1 (RS-232, RS-485, RS-422, software configurable)
SD card	No
Expansion	No
Ratings	
Power supply	24 Vdc (10 to 32 Vdc)
Current Consumption	0.3 A at 24 Vdc (max.)
Input Protection	Automatic
Battery	Yes (Supercapacitor)
Environment Conditions	
Operating Temp	0 to 50 °C (vertical installation)
Storage Temp	-20°C to +70°C
Operating / Storage Humidity	5-85% RH, non condensing
Protection Class	IP66 (front), IP20 (rear)
Protection Class	Type: 2, 4X
Dimensions and Weights	Type. 2, 4A
Example to the local t	туре. 2, 4л
Faceplate LxH	187x147 mm (7.36x5.79")
Cutout AxB	187x147 mm (7.36x5.79") 176x136 mm (6.93x5.35")
Cutout AxB Depth D+T	187x147 mm (7.36x5.79") 176x136 mm (6.93x5.35") 29+5 mm (1.14+0.19")
Cutout AxB Depth D+T Weight	187x147 mm (7.36x5.79") 176x136 mm (6.93x5.35")
Cutout AxB Depth D+T	187x147 mm (7.36x5.79°) 176x136 mm (6.93x5.35″) 29+5 mm (1.14+0.19″) Approx 0.6 Kg
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Cutout AxB Depth D+T Weight Approvals CE UL UL UL ATEX	187x147 mm (7.36x5.79") 176x136 mm (6.93x5.35") 29+5 mm (1.14+0.19") Approx 0.6 Kg Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environments Emission EN 61000-6-3, Immunity EN 61000-6-1 for installation in residential environments cULus: UL508 cULus: Class 1 Div 2 Zone 2: II 3 G Ex ic ec IIC T6 Gc



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

#### Ordering Information



Cut-out

 Model
 Part Number
 Description

 eSMART07M
 +ESMA07MU301
 7" widescreen TFT color touchscreen with Ethernet and USB interfaces. JMobile runtime

ptn0522 - Version 1.5