

eSMART07M

The eSMART Series HMI products combine state-of-the-art features and top performance with an outstanding 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.

eSMART07M features a bright 7" TFT widescreen (16:9) display with a fully dimmable LED backlight.



- 7" TFT color display, LED backlight
- 800x480 pixel (WVGA) resolution, 64K colors
- Resistive touchscreen
- Ethernet port
- USB port
- Approved for hazardous locations UL Class I Div 2 and ATEX
- Approved for marine applications DNV-GL and EU RO MR

Highlights

The eSMART HMI products have been designed to run the JMobile software.

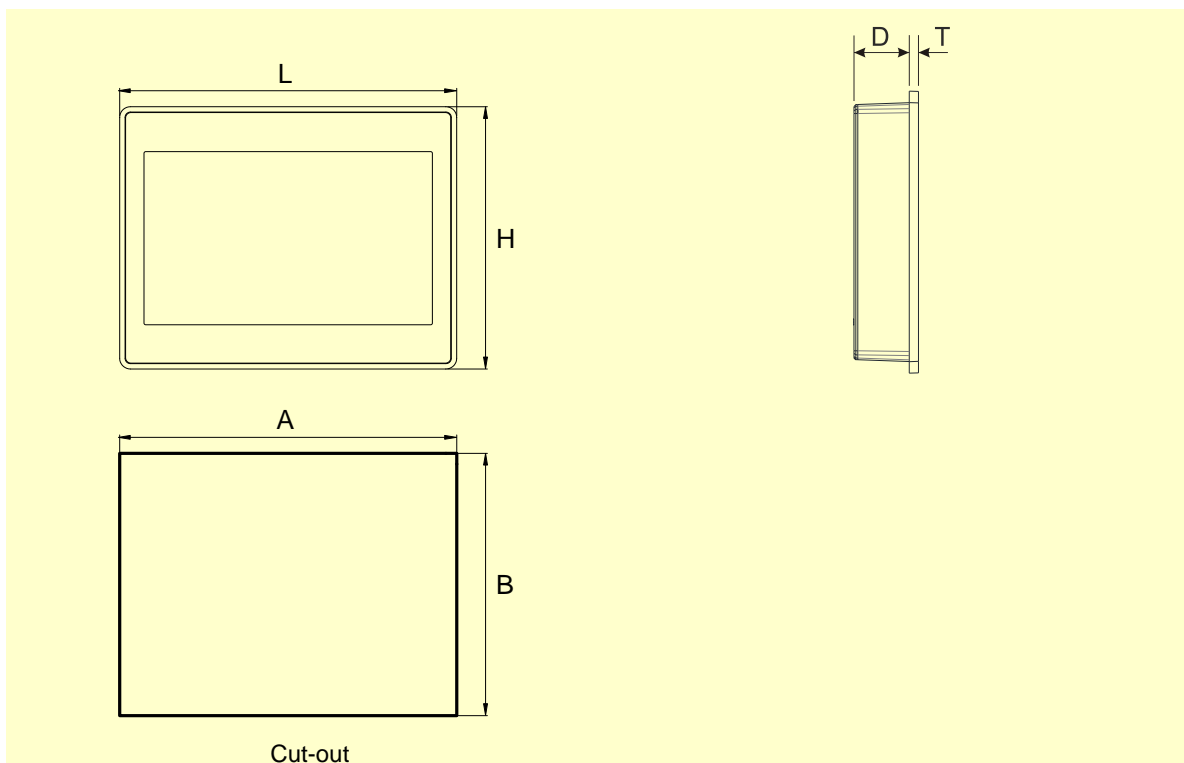
- Compatible with JMobileStudio.
- Full vector graphic support. Native support of SVG graphic objects, transparency and alpha blending.
- Screen object dynamics: control visibility and transparency, move, resize, rotate any object on screen. Change properties of basic and complex objects.
- Multilanguage 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.

Technical Data

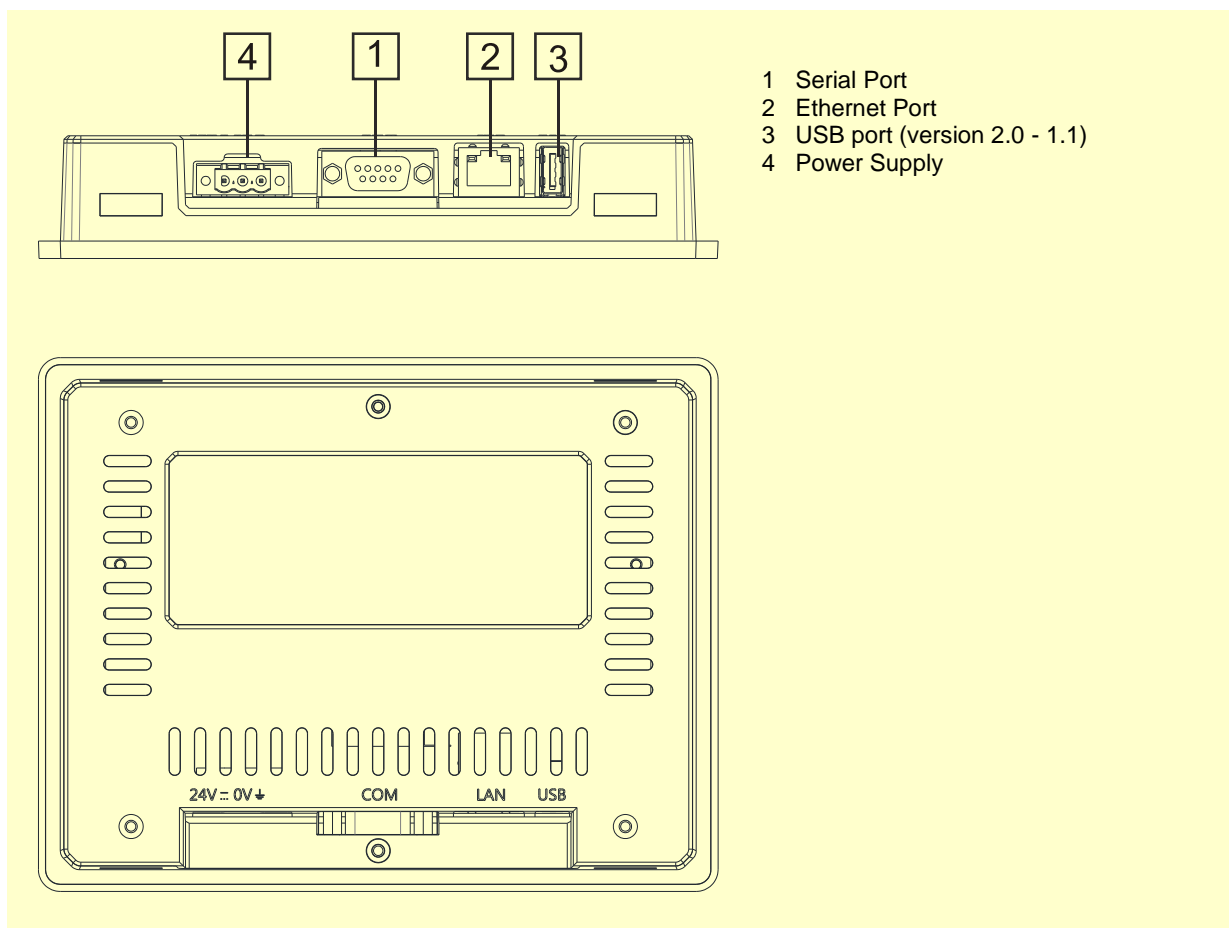
Display	
Type	TFT
Resolution	800x480, WVGA
Active display area	7" diagonal
Colors	64K
Backlight	LED
Brightness	200 Cd/m ² typ.
Dimming	Yes
System Resources	
CPU	ARM Cortex A8 1 GHz
Operating System	Linux 3.12
RAM	512 MB
Flash	4 GB
Application memory	60 MB
Real Time Clock	Yes
RTC backup	Supercapacitor
Buzzer	Yes
User Interface	
Touchscreen	Resistive
Interfaces	
Ethernet	1x 10/100 Mbit
USB	1x Host (V2.0, max. 500 mA)
Serial	1x RS-232/RS-485/RS-422, software configurable
Ratings	
Power supply voltage	24 Vdc (10 to 32 Vdc)
Current consumption	0.3 A at 24Vdc (max.)
Fuse	Automatic
Weight	Approx 0.6 Kg

Environmental Conditions	
Operating temperature	0 to 50 °C (vertical installation)
Storage temperature	-20 to +70 °C
Operating and storage humidity	5 – 85 % relative humidity, non-condensing
Protection class	Front: IP66, Type 2 and 4X Rear: IP20
Dimensions	
Faceplate LxH	187x147 mm (7.36x5.79")
Cutout AxB	176x136 mm (6.93x5.35")
Depth D+T	29+5 mm (1.14+0.19")
Approvals	
CE	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
UL	UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D
ATEX	Zone 2 II 3G Ex ic ec IIC T6 Gc 0≤Tamb≤+50°C
DNV-GL	DNV-GL Type Approval Certificate
EU RO MR	Mutual Recognition Type Approval
RCM	RCM mark

Dimensions



Connections



Ordering Information

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

ptn0522

Ver. 1.3

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