Tech-note

eSMART10

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.
eSMART10 features a bright 10.1" TFT widescreen (16:9) display with a fully dimmable LED backlight.

- 10.1" TFT color display, LED backlight
- 1024x600 pixel (WVGA) resolution, 64K colors
- Resistive touchscreen
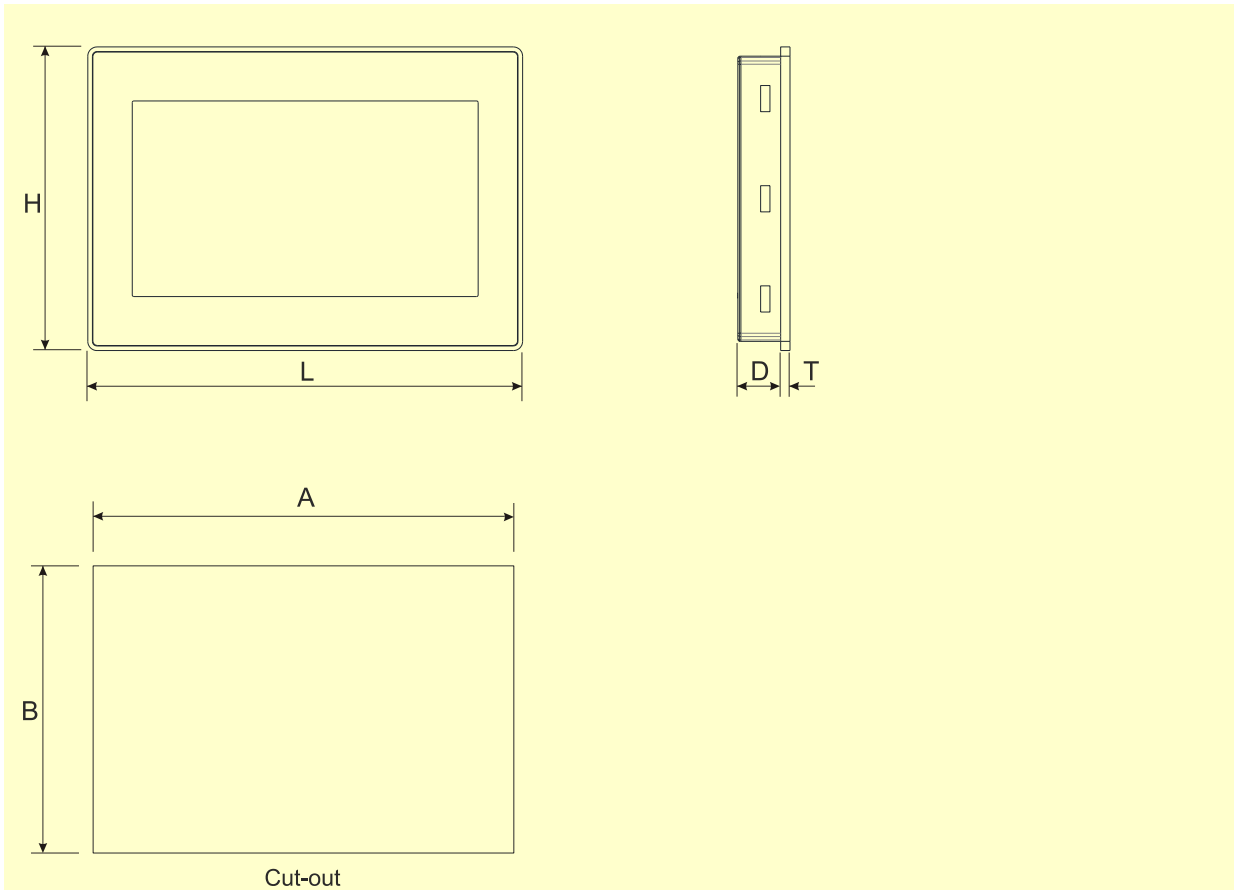- Ethernet port
- USB port

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, 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.
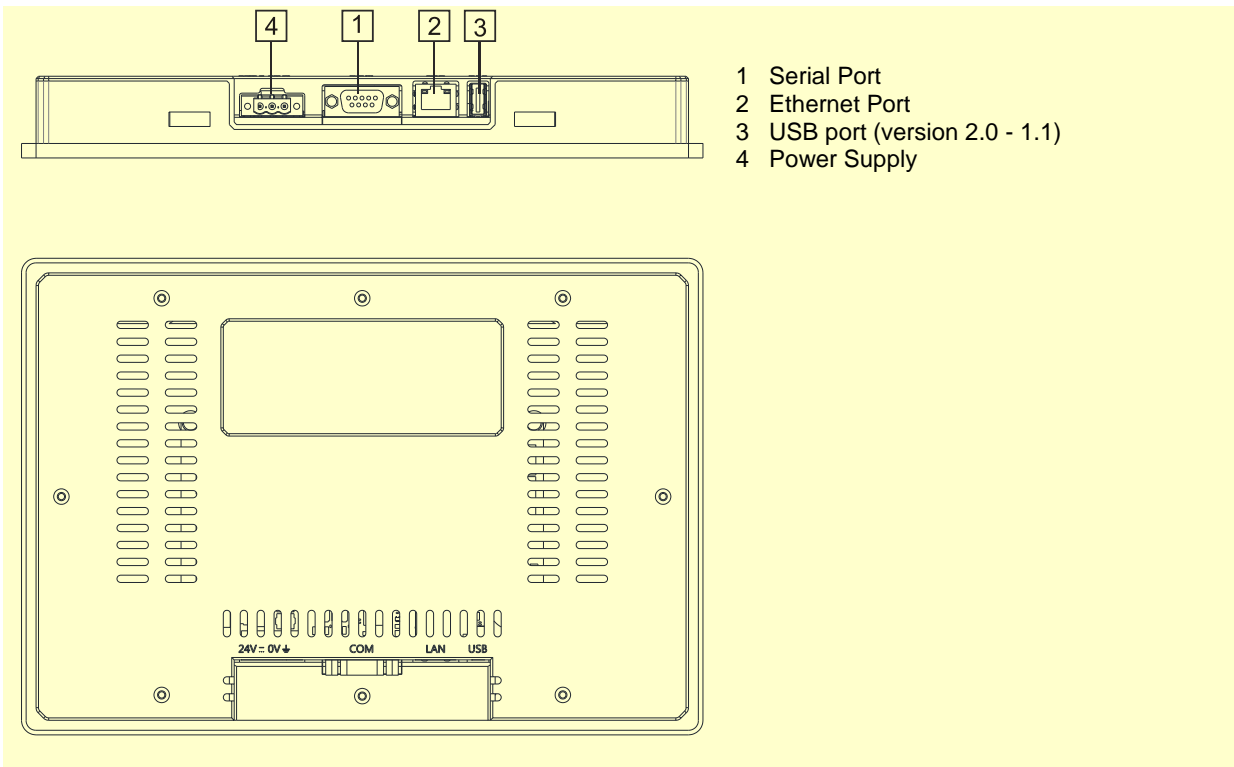- Rich gallery of objects and symbols

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Technical Data

Display

Type	TFT
Resolution	1024x600, WVGA
Active display area	10.1" diagonal
Colors	64K
Backlight	LED
Brightness	200 Cd/m^2 typ.
Dimming	Yes

System Resources

CPU	ARM Cortex A8 1GHz
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	Analog resistive

Interface

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 (18 to 32 Vdc)
Current consumption	0.38 A at 24Vdc(max.)
Fuse	Automatic

Weight	Approx 1.0 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	282x197 mm (11.10x7.75")
Cutout AxB	271x186 mm (10.66x7.32")
Depth D+T	29+6 mm (1.14+0.23")

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
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Dimensions

Cut-out

Connections

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

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Ordering Information

Model	Part Number	Description
eSMART10	+ESMA10U301	10" widescreen TFT color touchscreen with Ethernet and USB interfaces. JMobile runtime.