



## Main Features

- 4.3" TFT color display, LED backlight
- 480 x 272 pixel (WQVGA) resolution, 64K colors
- Resistive touchscreen
- 1 x Ethernet port
- 1 x USB host port
- 1 x RS232/422/485 communication port
- Extremely cost efficient HMI with plastic chassis
- Slim design. Mounting depth less than 30mm

## Product Overview

The eSMART Series HMI products combine state-of-the-art features and top performance with an outstanding design. They are the ideal choice for adding affordable functionality and control to your system. The eSMART04 features a bright 4.3" TFT widescreen (16:9) display with a fully dimmable LED backlight. The JMobile software offers full vector graphic capabilities and plenty of connectivity options.

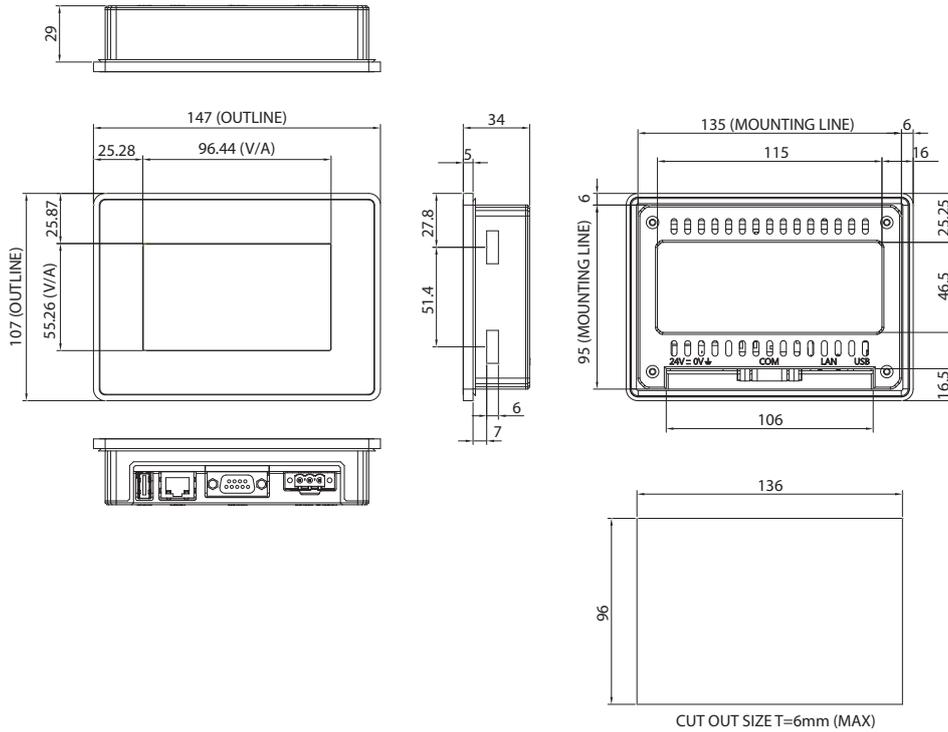
### Highlight

- JMobile runtime included. Full compatibility with JMobile Studio
- Full vector graphic support. Native support of SVG graphic objects. Transparency and alpha blending
- Multilanguage applications. Easily create and manage your applications in multiple languages to meet global requirements. Far East languages are supported. Tools available in JMobile studio support easy third-party translations and help reducing development and maintenance costs of the application
- Data display in numerical, text, bargraph, analog gauges and graphic image formats
- Rich set of state-of-the-art HMI features: data acquisition, alarm handling, scheduler and timed actions (daily and weekly schedulers, exception dates), recipes, users and passwords, e-mail and RSS feeds, rotating menus
- Includes support for a wide range of communication drivers for factory and building automation systems
- Multiple drivers communication capability
- Remote monitoring and control. Client-server functionality. Mobile clients supported
- Remote maintenance and support with VNC-based functionality
- Off-line simulation of the HMI application with JMobile studio
- Powerful scripting language for automating HMI applications. Script debugging improves efficiency in application development
- Rich gallery of symbols and objects
- Project templates
- Optional plug-in modules for fieldbus systems, I/O and controllers
- Display backlight dimmable to 0%

## Specifications

Technical Data	eSMART04	Technical Data	eSMART04
Panel	<ul style="list-style-type: none"> <li>- 4.3", 16:9, WQVGA, 480 x 272</li> <li>- Luminance: 200 cd/m<sup>2</sup> typ.</li> <li>- LCD color: 64K</li> <li>- Active display area: 4.3" diagonal</li> <li>- Backlight: LED</li> </ul>	Ratings	<ul style="list-style-type: none"> <li>- Power supply voltage: 24Vdc (18 to 32 Vdc)</li> <li>- Current consumption: 0.3A at 24Vdc (max.)</li> <li>- Fuse: Automatic</li> <li>- Weight: Approx. 0.6Kg</li> </ul>
Operator Interface	<ul style="list-style-type: none"> <li>- Touch: Resistive</li> </ul>		

## Dimension Drawing



Technical Data	eSMART04	Technical Data	eSMART04
System Resources	<ul style="list-style-type: none"> <li>- CPU: ARM Cortex A8 300 MHz</li> <li>- Operating system: Linux 3.12</li> <li>- RAM: 256MB DDR</li> <li>- Flash: 2 GB</li> <li>- Application memory: 60MB</li> <li>- Real-time clock: Yes</li> <li>- RTC backup: Supercapacitor</li> <li>- Buzzer: Yes</li> </ul>	Environmental Conditions	<ul style="list-style-type: none"> <li>- Operating temperature: 0°C to 50°C (vertical installation)</li> <li>- Storage temperature: -20°C to 70°C</li> <li>- Operating and storage humidity: 5%~85%, relative humidity, non-condensing</li> <li>- Protection class: IP66 (front), IP20 (rear)</li> </ul>
		Dimensions	<ul style="list-style-type: none"> <li>- Faceplate LxH: 147 x 107mm</li> <li>- Cutout Ax:B: 136 x 96mm</li> <li>- Depth D+T: 29 + 5mm</li> </ul>
Interface	<ul style="list-style-type: none"> <li>- Ethernet: 1 x 10/100Mbit</li> <li>- USB: 1 x host V2.0, max. 500 mA</li> <li>- Serial: 1 x RS232/422/485 software configuration</li> </ul>	Certifications	<ul style="list-style-type: none"> <li>- CE (Emission EN61000-6-4; Immunity EN61000-6-2 for installation in industrial environments)</li> <li>- CE (Emission EN61000-6-3; Immunity EN61000-6-1 for installation in residential environments)</li> <li>- cULus (UL508 Listed)</li> <li>- cULus: Class I Div 2</li> <li>- ATEX: Zone 2: II 3G Ex ic ee IIC T6 Gc</li> <li>- DNV-GL</li> <li>- EU RO MR</li> <li>- RCM</li> </ul>

## Ordering Information

- **eSMART04 (P/N: A0IE0000403X1)**  
**10IE0000403X1 +ESMA04U301 & 6014500134X00 License Label**  
 4.3" widescreen TFT WQVGA touchscreen with Ethernet and USB interfaces. JMobile run-time

\* Note: This product is only for Taiwan, China, Thailand, Vietnam, Philippines, Korea, UAE and Saudi Arabia.