



Main Features

- ♦ 4.3" TFT color display, LED backlight
- ♦ 480 x 272 pixel (WQVGA) resolution, 16.7M 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 eSMART04N 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

Panel

- ♦ LED Size: 4", 16:9
- ♦ Resolution: WQVGA 480x272
- ♦ Luminance: 200cd/m²
- ♦ LCD color: 64K
- ♦ Backlight: LED

System Resources

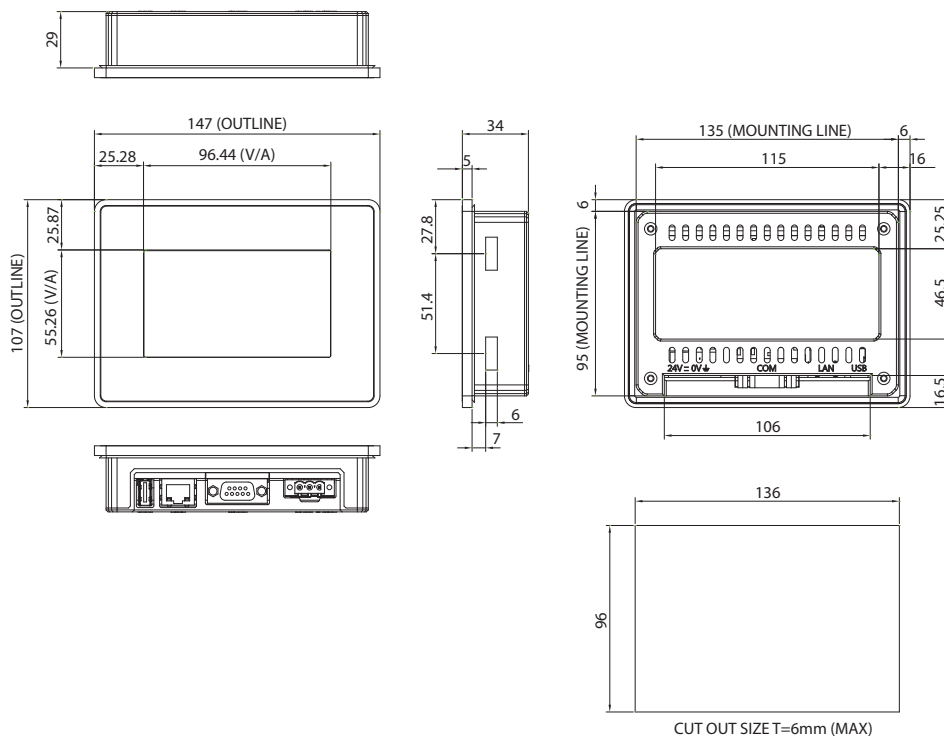
- ♦ CPU: ARM Cortex-A8 300MHz
- ♦ Operating System: Linux 3.12

- ♦ Memory: 2G eMMC Flash
- ♦ RAM: 256MB DDR
- ♦ Application Memory: 60MB
- ♦ Real Time Clock: Yes
- ♦ RTC Backup: Supercapacitor
- ♦ Buzzer: Yes

Operator Interface

- ♦ Touchscreen: Analog resistive

Dimension Drawing



Interface

- Ethernet: 1 x 10/100 Mbit
- USB: 1 x USB2.0 host interface
- Serial: 1 x RS232/422/485 software configuration

Ratings

- Power supply voltage: 24Vdc (18 to 32 Vdc)
- Current consumption: 0.25A at 24Vdc (max.)
- Weight: 0.4kg

Environmental Conditions

- Operating temperature: 0°C to 50°C (vertical installation)
- Storage temperature: -20°C to 70°C
- Operating and storage humidity: 5%~85% relative humidity, non-condensing
- Protection class: IP66/NEMA4X (front), IP20 (rear)

Dimensions

- Faceplate LxH: 147x107 mm
- Cutout AxH: 136x96 mm
- Depth D+T: 29+5 mm

Certifications

- CE (emission EN61000-6-3/4; Immunity EN61000-6-1/2 for installation in industrial environments)
- cULus (UL508 Listed)

Ordering Information

♦ eSMART04N (P/N: 10IE0000408X0)

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