# NX-eSMART04

## 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.

Hightlight

- 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 | - 4.3", 16:9, WQVGA, 480 x 272<br>- Luminance: 200 cd/m² typ.<br>- LCD color: 64K<br>- Active display area: 4.3" diagonal<br>- Backlight: LED | Ratings | - Power supply voltage: 24Vdc (18 to 32 Vdc)<br>- Current consumption: 0.3A at 24Vdc (max.)<br>- Fuse: Automatic<br>- Weight: Approx. 0.6Kg |
|---|---|---|---|
| Operator Interface | - Touch: Resistive | | |

# Dimension Drawing



CUT OUT SIZE T=6mm (MAX)

| System Resources | - CPU: ARM Cortex A8 300 MHz<br>- Operating system: Linux 3.12<br>- RAM: 256MB DDR<br>- Flash: 2 GB<br>- Application memory: 60MB<br>- Real-time clock: Yes<br>- RTC backup: Supercapacitor<br>- Buzzer: Yes | Environmental Conditions | - Operating temperature: 0°C to 50°C (vertical installation)<br>- Storage temperature: -20°C to 70°C<br>- Operating and storage humidity: 5%~85%, relative humidity, non-condensing<br>- Protection class: IP66 (front), IP20 (rear) |
| --- | --- | --- | --- |
| | | Dimensions | - Faceplate LxH: 147 x 107mm<br>- Cutout AxB: 136 x 96mm<br>- Depth D+T: 29 + 5mm |
| Interface | - Ethernet: 1 x 10/100Mbit<br>- USB: 1 x host V2.0, max. 500 mA<br>- Serial: 1 x RS232/422/485 software configuration | Certifications | - CE (Emission EN61000-6-4; Immunity EN61000-6-2 for installation in industrial environments)<br>- CE (Emission EN61000-6-3; Immunity EN61000-6-1 for installation in residential environments)<br>- cULus (UL508 Listed)<br>- cULus: Class I Div 2<br>- ATEX: Zone 2: II 3G Ex ic ee IIC T6 Gc<br>- DNV-GL<br>- EU RO MR |