# eTOP515G Tech-Note

The eTOP Series 500 HMI products combine state-of-the-art features and top performance with an oustanding design. They are the ideal choice for all demanding HMI applications including factory, energy and marine applications.

The eTOP515G features a high-brightness, contrast-enhanced ruggedized 15" TFT display. The product has been designed for use in harsh environments and outdoor applications.Glass bonding assembly and anti-reflective (AR) glass surface treatment provide for superior optical performance. The durable glass touchscreen requires the human touch, eliminating false activations, and offers high reliability and durability; it will continue to work even surface is scratched or contaminated.



- High Brightness 15" TFT color display
- Display backlight dimmable to 0%
- 1024x768 pixel (XGA) resolution, 64K colors
- Projected Capacitive Touchscreen (PCT)
- 2 Ethernet ports with switch function
- 2 USB host ports
- SD Card Slot
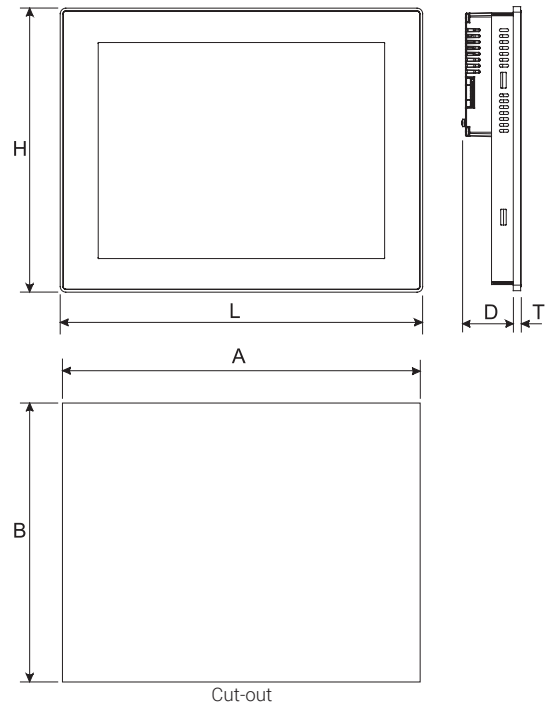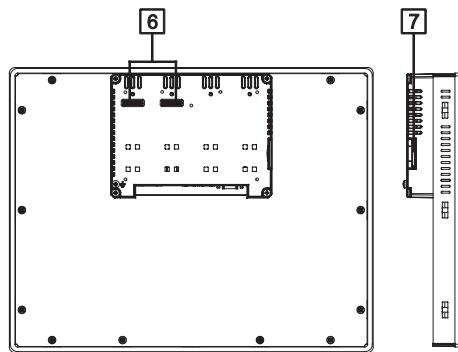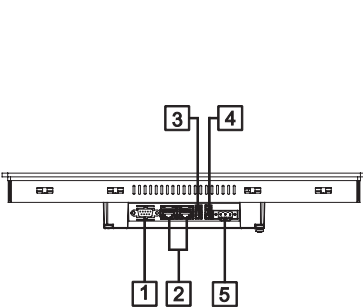- Connection to bus systems using optional plug-in modules

## Highlights

The eTOP Series 500 HMI panels have been designed to run the JMobile software.

- JMobile runtime included.
  Full compatibility with JMobile Studio.
- Full vector graphic support. Native support of SVG graphic objects. Trasparency and alpha blending.
- Full object dynamics: control visibility and transparency, move, resize, rotate any object on screen.
  Change properties of basic and complex objects.
- TrueType fonts
- 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.
- Includes support for a wide range of communication drivers for Factory and Building Automation systems.
- Multiple drivers communication capability.

- 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
- Remote monitoring and control.
  Client-Server functionality. Mobile clients supported.
- Simulation 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
- Mediaplayer widget
- IP camera widget
- Optional CODESYS SoftPLC
- Optional plug-in modules for fieldbus systems, networks I/O and controllers.

# eTOP515G - Technical Data

| System Resources | |
|---|---|
| Display - Colors | 15" TFT LED - 64K |
| Resolution | 1024x768, XGA |
| Brightness | 1500 Cd/m$^2$ typ |
| Dimming | to 0% |
| Touchscreen | True Glass Projected Capacitive |
| CPU | ARM Cortex-A8 - 1 GHz |
| Operating System | Microsoft Windows CE 6.0 |
| Flash | 256 MB |
| RAM | 256 MB |
| Real Time Clock, RTC Back-up, Buzzer | Yes, Yes, Yes |
| **Interface** | |
| Ethernet port | 2 (port 0 - 10/100, port 1 - 10/100) with integrated Switch |
| USB port | 2 (port 1 - Host V2.0, port 2 - Host V2.0/1.1) |
| Serial port | 1 (RS-232, RS-485, RS-422, software configurable) Max 3 serial ports using plug-in modules. |
| SD card | Yes |
| Expansion | 2 slot for plug in modules |
| **Ratings** | |
| Power supply | 24 Vdc (10 to 32 Vdc) |
| Current Consumption | 1.4 A at 24 Vdc (max.) |
| Input Protection | Automatic |
| Battery | Rechargeable Lithium battery, not user-replaceable |
| **Environment Conditions** | |
| Operating Temp | -20 to +60 °C (vertical installation) |
| Storage Temp | -40 to +85 °C |
| Operating / Storage Humidity | 5-85% RH, non condensing |
| Protection Class | IP69K (front), IP20 (rear) |
| **Dimensions and Weights** | |
| Faceplate LxH | 392x307 mm (15.43x12.08") |
| Cutout AxB | 381x296 mm (15x11.65") |
| Depth D+T | 56+8.5 mm (2.20+0.33") |
| Weight | Approx 4.0 Kg |
| **Approvals** | |
| CE | Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments |
| UL | cULus: UL508 |
| UL | cULus: Class I Div. 2 |
| IECEx | Zone 2/22: Ex nA IIC T4 Gc -20<Tamb<+60°C, Ex tc IIIC T105°C Dc |
| ATEX | Zone 2/22: II 3G Ex nA IIC T4 Gc -20<Tamb<+60°C II 3D Ex tc IIIC T105°C Dc |
| DNV-GL | Yes |
| RCM | Yes |

1 Serial Port
2 2x Ethernet Port
3 2x USB Port
4 Power Supply
5 2x Expansion slots for Plugin modules
6 2x Plug-in slots
7 SD Card Slot for removable card

# Ordering Information

| Model | Part Number | Description |
|---|---|---|
| eTOP515G | +ETOP515U5P1 | 15" widescreen TFT color projected capacitive touchscreen with Ethernet and USB interfaces. JMobile runtime. |