

## eTOP510G Tech-Note

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

The eTOP510G features a high-brightness, contrast-enhanced ruggedized 10.1" TFT widescreen display with LED backlight. The product has been designed for use in harsh environments and outdoor applications. Glass bonding assembly and glass surface treatment provide for superior optical performance resulting in a sunlight-readable product. The durable glass touchscreen requires the human touch, eliminating false activations, and offers high reliability and durability; it will continue to work even when surface is scratched or contaminated.



- 10.1" TFT color display, resolution 1280x800 pixel, 64K colors
- LED backlight dimmable to 0%
- Projected capacitive touchscreen. True glass design
- 2 Ethernet ports with switch function
- 2 USB Host ports
- SD Card slot
- Plug-in modules for system expansion

## Highlights

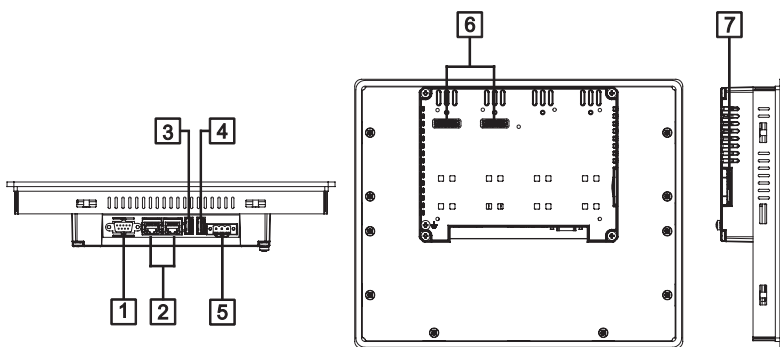
The eTOP Series 500 HMI panels have been designed to run the JMobile software.

- JMobile runtime included.  
Full compatibility with JMobile Studio.
- Full vector graphic support. Native support of SVG graphic objects. Transparency and alpha blending.
- Full object dynamics: control visibility and transparency, move, resize, rotate objects 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.
- Rich set of state-of-the-art HMI features: graphical presentation of data presentation, data acquisition, alarm handling, scheduler and timed actions, recipe data storage, users and passwords, e-mail and RSS feeds, rotating menus.
- Indexed addressing and cross-reference viewer.
- Wide selection of communication drivers for factory and building automation.
- Multiple drivers communication capability.
- Remote monitoring and control.  
Client-Server functionality. Mobile clients supported.
- Remote maintenance and support with VNC-based functionality.
- Off-line and on-line simulation of the HMI application with JMobile Studio.
- Powerful scripting language for automating HMI applications. Includes script debugger.
- Create and print reports to printers and to file.
- Page templates to simplify application design.
- Rich gallery of symbols and objects.
- Includes PDF reader.
- MediaPlayer widget
- IP Network camera widget
- Optional CODESYS PLC

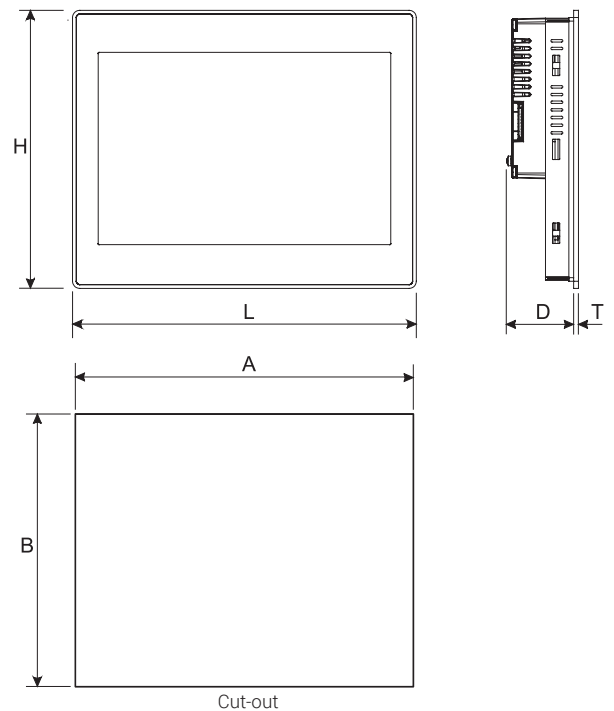
# eTOP510G - Technical Data



System Resources	
Display - Colors	10.1" TFT 16:9 LED - 64K
Resolution	1280x800, WXGA
Brightness	600 Cd/m <sup>2</sup> 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	1.0 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	-20 to +70 °C
Operating / Storage Humidity	5-85% RH, non condensing
Protection Class	IP69K (front), IP20 (rear)
Dimensions and Weights	
Faceplate LxH	282x197 mm (11.10x7.80")
Cutout AxB	271x186 mm (10.67x7.32")
Depth D+T	52+8 mm (2.20+0.33")
Weight	Approx 2.7 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 USB port (version 2.0 - 1.1)
- 4 USB port (version 2.0 High speed only)
- 5 Power Supply
- 6 2x Expansion slot for Plugin module
- 7 SD Card Slot



## Ordering Information

Model	Part Number	Description
eTOP510G	+ETOP510U5P1	10.1" widescreen TFT color with projected capacitive touchscreen. Ethernet and USB interfaces. JMobile runtime.