EXOR INTERNATIONAL

Tech-note

UniOP eTOP510G

The UniOP eTOP Series 500G 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 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
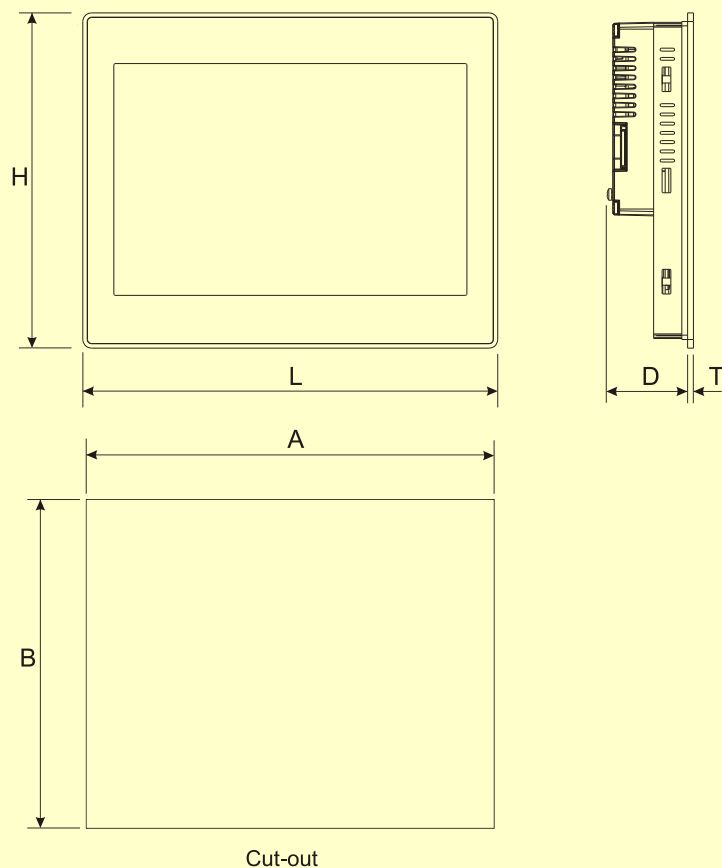
Highlights

The eTOP Series 500G 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 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
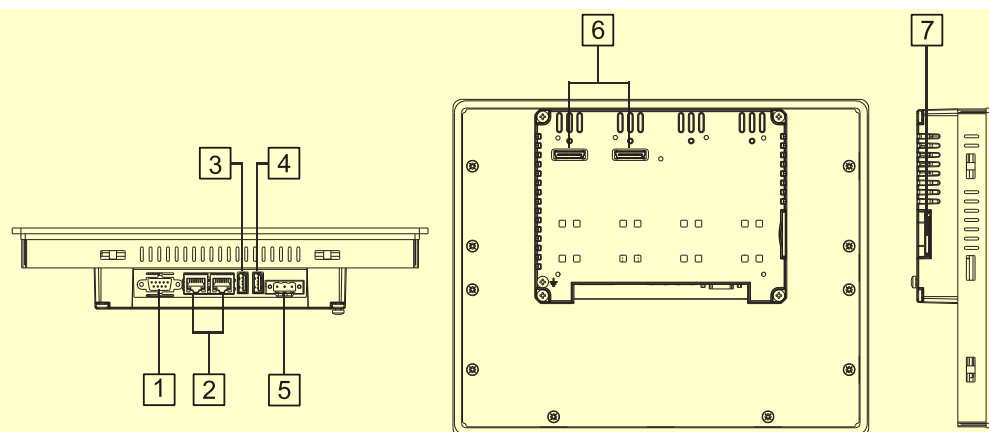- IP Network camera widget
- Optional CODESYS PLC

Technical Data

Display	
Type	TFT
Resolution	1280x800, WXGA
Active display area	10.1" diagonal
Colors	64K
Backlight	LED
Brightness	600 Cd/m^2 typ.
Dimming	Dimmable to 0%

System Resources	
Operating System	Microsoft Windows CE 6.0
User memory	256 MB Flash
RAM	256MB DDR

Operator Interface	
Touchscreen	Projected capacitive
LED indicators	-

Interface	
Ethernet	2 10/100 Mbit with integrated Switch
USB	2 Host Interface Interface (1x version 2.0, 1x version 2.0 and 1.1)
Serial	RS-232, RS-485, RS-422, software configurable. Max 3 serial ports with optional plug-in modules.
Memory Card	SD Card slot
Expansion	2 slots for optional plug-in modules

Functionality	
Hardware Real Time Clock	Yes, with battery back-up
Screen saver	Yes
Buzzer	Yes, audible feedback for touchscreen

Ratings	
Power supply voltage	24 Vdc (10 to 32 Vdc)

Current consumption	1.0 A at 24Vdc(max.)
Fuse	Automatic
Weight	Approx 1.7 Kg
Battery	Rechargeable Lithium battery, not user-replaceable

Environmental Conditions	
Operating temperature	-20° to +60 °C (vertical installation)
Storage temperature	-20 to +70 °C
Operating and storage humidity	5 – 85 % relative humidity, non-condensing
Protection class	IP69K (front) IP20 (rear)

Dimensions	
Faceplate LxH	282x197 mm (11.10x7.80")
Cutout AxB	271x186 mm (10.67x7.32")
Depth D+T	56+8 mm (2.20+0.33")

Approvals	
CE	Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments
ATEX Pending approval	Zone 2/22, II 3G / II 3D
DNV Pending approval	DNV Type Approval Certificate
UL Pending approval	cULus Haz. Loc. Class I, Division 2, Groups A,B,C and D.
C-Tick Pending approval	C-Tick mark

Dimensions

Cut-out

Connections

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.