EXOR INTERNATIONAL

Tech-note

UniOP eTOP515G

The UniOP 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
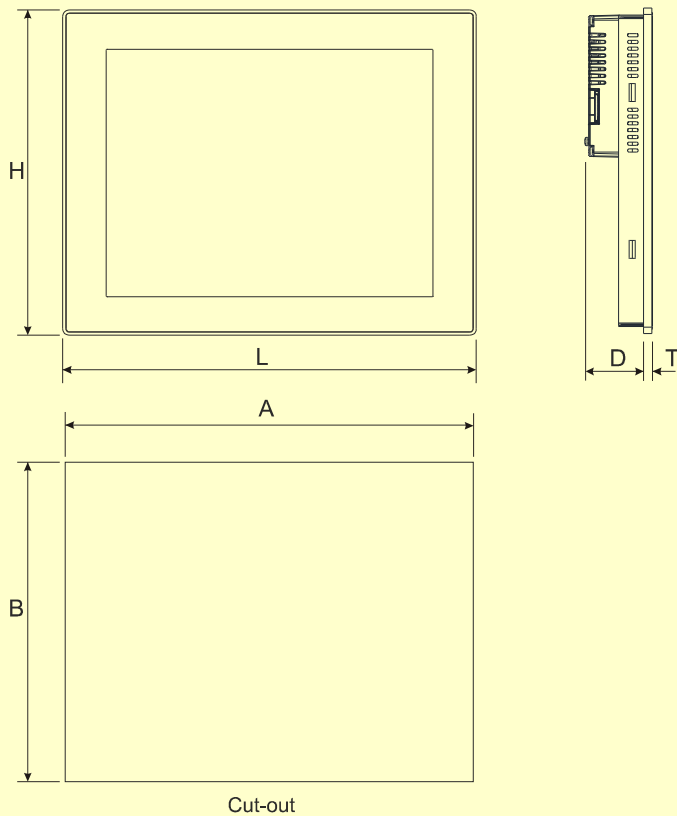- Front protection class IP69K

Highlights

The eTOP Series 500 HMI panels have been designed to run the JMobile HMI 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.
- 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.
- 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.
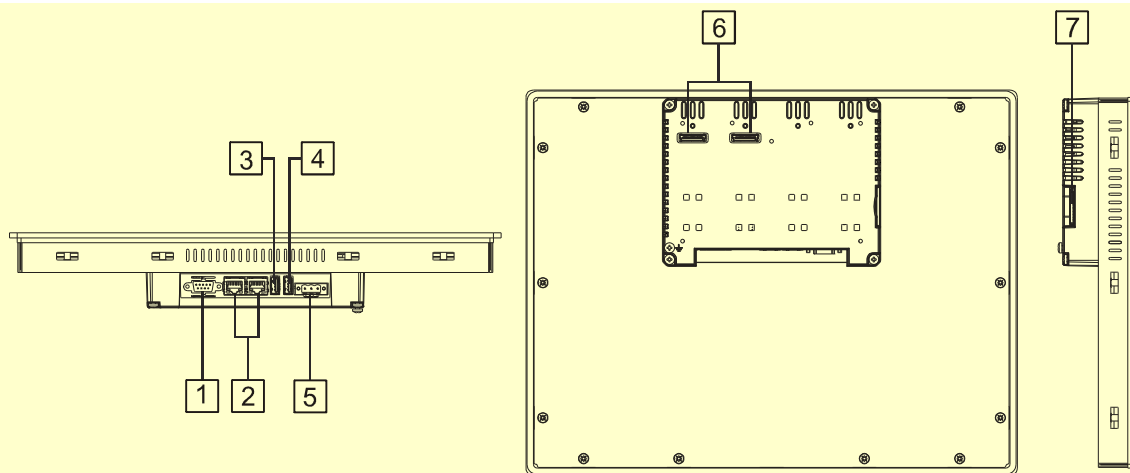
Tech-note

Technical Data

Display

Type	TFT
Resolution	1024x768, XGA
Active display area	15" diagonal
Colors	64K
Backlight	LED
Brightness	1500 Cd/m^2 typ.
Dimming	Yes

System Resources

Operating System	Microsoft Windows CE 6.0
CPU	ARM Cortex-A8 – 1Ghz
User memory	256MB Flash
RAM	256MB DDR

Operator Interface

Touchscreen	Projected Capacitive

Interfaces

Ethernet port	2 10/100 Mbit with integrated Switch
USB port	2 Host interface v.2.0
Serial Port 1	RS-232, RS-485, RS-422, software configurable
Expansion Slot	2 Optional Plugin
Memory Card	SD Card Slot

Functionality

Vector graphics	Yes, includes SVG support
Object dynamics	Yes. Visibility, position, size, rotation for most object types.
TrueType fonts	Yes
Multiple driver communication	Yes
Data acquisition and trend presentation	Yes. Flash memory storage.
Multilanguage	Yes, with runtime language switching.
Recipes	Yes. Flash memory storage.
Alarms	Yes
Historical event list	Yes
Users and passwords	Yes
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	1.4A at 24Vdc(max.)
Fuse	Automatic
Weight	Approx 4.0 Kg
Battery	Rechargeable Lithium battery, not user-replaceable

Environmental Conditions

Operating temperature	-20 to +60 °C (vertical installation)
Storage temperature	-40 to +85 °C
Operating and storage humidity	5 – 85 % relative humidity, non-condensing
Protection class	IP69K (front panel) IP20 (rear)

Dimensions

Faceplate LxH	392x307 mm (15.43x12.08")
Cutout AxB	381x296 mm (15x11.65")
Depth D+T	56+8.5 mm (2.20+0.33")

Approvals

CE	Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments
DNV	DNV Type Approval Certificate
UL	UL508 Listed (pending approval)
ATEX	Zone 2/22, II 3G / II 3D

Dimensions

Cut-out

Connections

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.