

# UniOP eTOP504

The eTOP504 compact 4,3" widescreen display completes the eTOP series 500 with a no-compromise low-cost product. The built-in dual 100Mb Ethernet interfaces with switch function enhance its communication capability and make it the ideal choice for small systems.



- 4.3" TFT color display
- 480x272 pixel resolution, 64K colors
- Resistive touchscreen
- 2 Ethernet ports with switch function
- USB Host port
- SD Card slot
- Multistandard Serial Port
- Connection to bus systems using optional plug-in modules

## Highlights

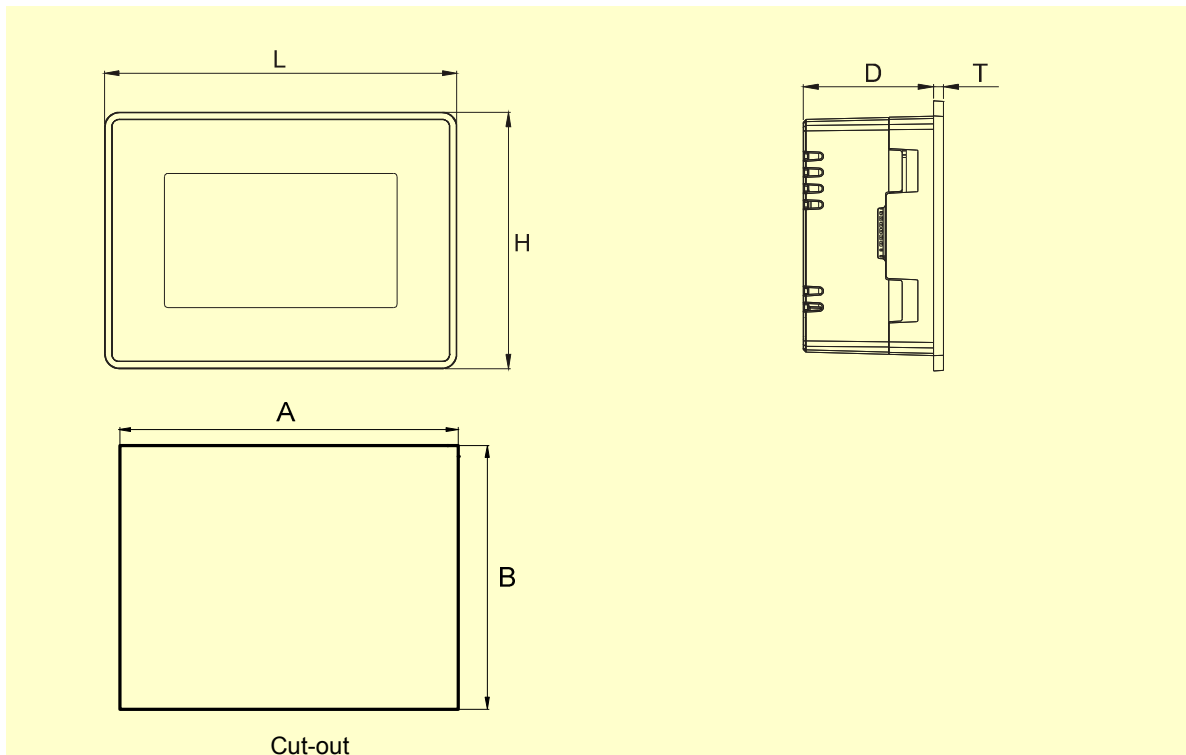
The eTOP Series 500 HMI panels have been designed to run the JMobile software.

- JMobile runtime included. Full compatibility with JMobile Studio.
- Full vector graphic support. Native support of SVG graphic objects. Transparency 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.
- Remote maintenance and support with VNC-based functionality.
- Off-line and On-line 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
- Optional plug-in modules for fieldbus systems, I/O and controllers.
- Wide dimming to 0% supported

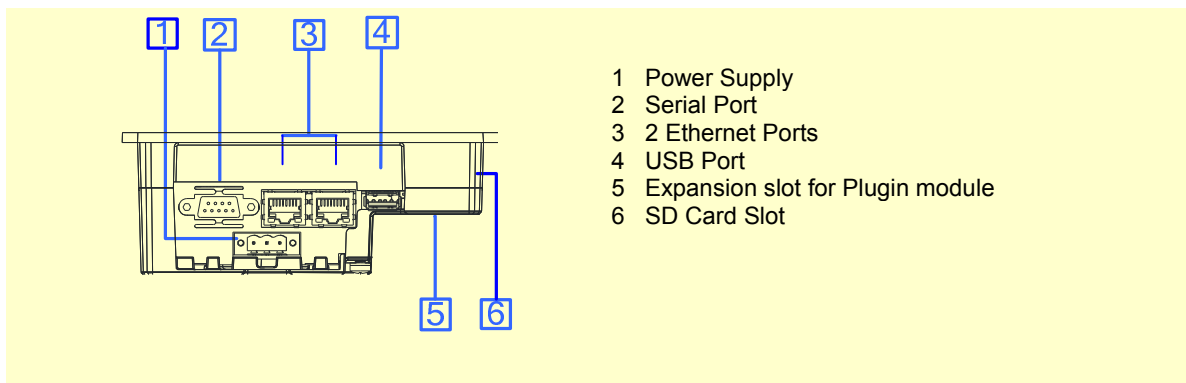
## Technical Data

<b>Display</b>		Users and passwords	Yes
Type	TFT	Hardware Real Time Clock	Yes, with battery back-up
Resolution	480x272 pixel	Screen saver	Yes
Active display area	4.3" diagonal (95.4x53.9 mm)	Buzzer	Yes, audible feedback for touchscreen
Colors	64K		
Backlight	LED		
Brightness	150 cd/m <sup>2</sup> typ.		
Dimming	Yes		
<b>System Resources</b>		<b>Ratings</b>	
Operating System	Microsoft Windows CE 6.0	Power supply voltage	24 Vdc (18 to 30 Vdc)
User memory	128 MB Flash	Current consumption	0.4A at 24Vdc(max.)
RAM	256MB DDR	Fuse	Automatic
		Weight	Approx 1.0 Kg
		Battery	Rechargeable Lithium battery, not user-replaceable
<b>Operator Interface</b>		<b>Environmental Conditions</b>	
Touchscreen	Analog resistive	Operating temperature	0 to 50 °C (vertical installation)
LED indicators	1 (dual color)	Storage temperature	-20 to +70 °C
		Operating and storage humidity	5 – 85 % relative humidity, non-condensing
		Protection class	IP66 (front) IP20 (rear)
<b>Interface</b>		<b>Dimensions</b>	
Ethernet	2 10/100 Mbit with integrated Switch	Faceplate LxH	147x107 mm (5.78x4.21")
USB	1 Host interfaces v.2.0	Cutout AxB	136x96 mm (5.35x3.78")
Serial	RS-232, RS-485, RS-422, software configurable	Depth D+T	56 + 4mm (2.40+0.16")
Expansion Slot	1 Optional Plugin		
Memory Card	SD Card Slot	<b>Approvals</b>	
<b>Functionality</b>		CE	Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments
Vector graphics	Yes, includes SVG support	DNV	DNV Type Approval Certificate
Object dynamics	Yes. Visibility, opacity, position, size, rotation for most object types.	UL	UL508 Listed
TrueType fonts	Yes		
Multiple driver communication	Yes		
Data acquisition and trend presentation	Yes. Flash memory storage limited only by available memory		
Multilanguage	Yes, with runtime language switching.		
Recipes	Yes. Flash memory storage limited only by available memory		
Alarms	Yes		
Historical event list	Yes		

**Dimensions**



**Connections**



**Ordering Information**

<b>Model-Type</b>	<b>Part Number</b>	<b>Description</b>
eTOP504-White	ETOP504U1P1	4.3" TFT color touchscreen panel with Ethernet interface, White front panel. JMobile run-time.
eTOP504-Grey	ETOP504U2P1	4.3" TFT color touchscreen panel with Ethernet interface. Grey front panel. JMobile run-time.
eTOP504-Black	ETOP504U3P1	4.3" TFT color touchscreen panel with Ethernet interface Black front panel. JMobile run-time.
PROTFOIL-04-GL	R-PROT11	Disposable protection foil for 3.5"/3.8"/4.3" eTOP touch panels (10 pieces)
PROTFOIL-04-UV	R-PROT17	Disposable protection foil for 3.5"/3.8"/4.3" eTOP touch panels (10 pieces). UV resistant

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**ptn0314**

**Ver. 1.2**

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