Tech-note

eTOP507MG

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 eTOP507G features a high-brightness, contrast-enhanced ruggedized 7" TFT widescreen (16:9) display with LED backlight. 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 7" TFT color display, LED backlight
- 800x480 pixel (WVGA) 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
- Slim design. Mounting depth less than 50mm without plugin
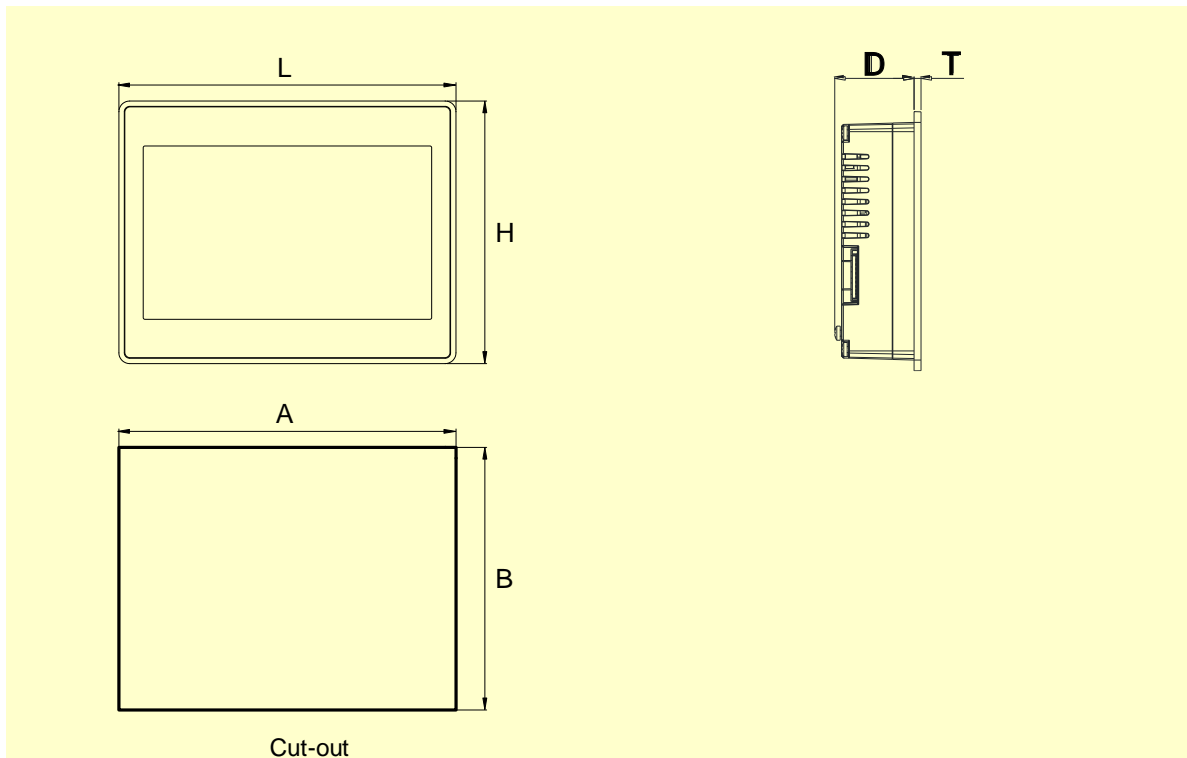
Highlights

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.
- 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.
- 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
- Mediaplayer widget
- Wide dimming
- IP Network camera widget
- Optional CODESYS SoftPLC
- Optional plug-in modules for fieldbus systems, networks I/O and controllers.
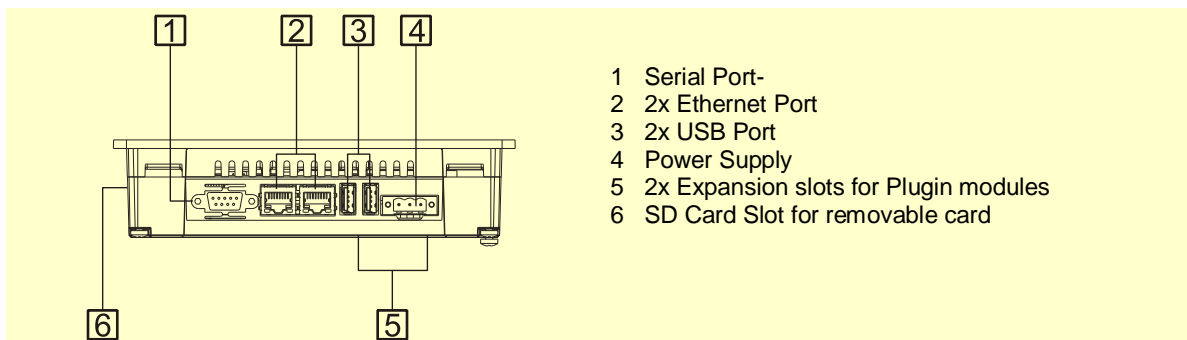
EXOR INTERNATIONAL Tech-note

Technical Data

Display

Type	TFT
Resolution	800x480, WVGA
Active display area	7" diagonal
Colors	64K
Backlight	White LED
Brightness	400 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	True Glass Projective 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 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
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	0.9A at 24Vdc(max.)
Fuse	Automatic

Weight	Approx 1.0 Kg
Battery	Rechargeable Lithium battery, not user-replaceable

Environmental Conditions

Operating temperature	-20 to +60 °C (vertical installation mounting)
Storage temperature	-40 to +85 °C
Operating and storage humidity	5 – 85 % relative humidity, non-condensing
Protection class	Front IP66 (IP69K) Rear IP20

Dimensions

Faceplate LxH	187x147 mm (7.36x5.79")
Cutout AxB	176x136 mm (6.93x5.35")
Depth D+T	47+8 mm (1.85+0.31")

Approvals

CE	Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments
DNV	DNV Type Approval Certificate
ATEX	Zone 2/22 II 3G Ex nA IIC T4 Gc -20<Tamb<+60°C II 3D Ex tc IIIC T105°C Dc
IECEx	Zone 2/22 Ex nA IIC T4 Gc -20<Tamb<+60°C Ex tc IIIC T105°C Dc
UL	UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D.
RCM	RCM mark
GL	Germanischer Lloyd Type Approval Certificate

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 SD Card Slot for removable card

Ordering Information

Model	Part Number	Description
eTOP507MG	+ETOP507MU5P1	7" widescreen TFT color projected capacitive touchscreen with Ethernet and USB interfaces. JMobile run-time.