

eTOP515G Tech-Note

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 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

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.
- Includes support for a wide range of communication drivers for Factory and Building Automation systems.
- Multiple drivers communication capability.

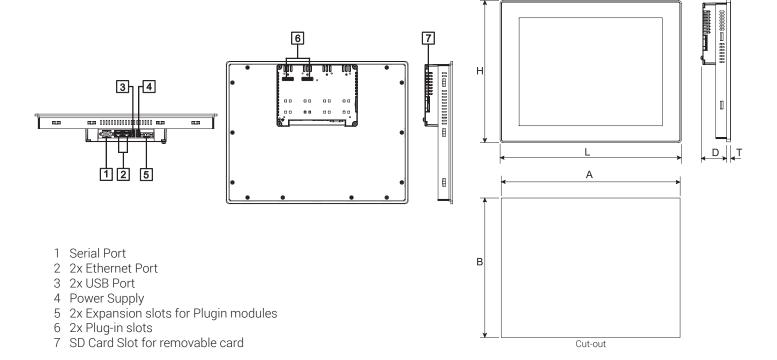
- Rich set of state-of-the-art HMI features: data acquisition, alarm handling, scheduler and timed actions (daily and weekly schedulers, exception dates), recipes, users and passwords, e-mail and RSS feeds, rotating menus
- Remote monitoring and control. Client-Server functionality. Mobile clients supported.
- 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.

eTOP515G - Technical Data





Ethernet port2 (port 0 - 10/100, port 1 - 10/100) with integrated SwitchUSB port2 (port 1 - Host V2.0, port 2 - Host V2.0/1.1)Serial port1 (RS-232, RS-485, RS-422, software configurable) Max 3 serial ports using plug-in modules.SD cardYesExpansion2 slot for plug in modulesRatings	System Resources	
Brightness1500 Cd/m² typDimmingto 0%TouchscreenTrue Glass Projected CapacitiveCPUARM Cortex-A8 - 1 GHzOperating SystemMicrosoft Windows CE 6.0Flash256 MBRAM256 MBReal Time Clock, RTC Back-up, BuzzerYes, Yes, YesInterface2 (port 0 - 10/100, port 1 - 10/100) with integrated SwitchUSB port2 (port 1 - Host V2.0, port 2 - Host V2.0/1.1)Serial port2 (port 1 - Host V2.0, port 2 - Host V2.0/1.1)Serial port2 (port 1 - Host V2.0, port 2 - Host V2.0/1.1)Serial port2 (port 1 - Host V2.0, port 2 - Host V2.0/1.1)Serial port2 (port 1 - Host V2.0, port 2 - Host V2.0/1.1)Serial port2 (port 1 - Host V2.0, port 2 - Host V2.0/1.1)Serial port2 (port 1 - Host V2.0, port 2 - Host V2.0/1.1)Serial port2 (port 0 - 10/100, port 1 - Host V2.0/1.1)Serial port2 (port 1 - Host V2.0, port 2 - Host V2.0/1.1)Serial port2 (port 1 - Host V2.0, port 2 - Host V2.0/1.1)Serial port2 (port 1 - Host V2.0, port 2 - Host V2.0/1.1)Serial port2 (port 1 - Host V2.0, port 2 - Host V2.0/1.1)Strage Temp2 slot for plug in modulesBatteryRechargeable Lithium battery, not user-replaceableEnvironment Conditions0Operating Temp-20 to +60 °C (vertical installation)Strage Temp-40 to +85 °COperating Temp-20 to +60 °C (vertical installation)Cutout AvB381x296 mm (15x11.65')Depth D+T56+8.5 mm (12.20+0.33')<	Display - Colors	15" TFT LED - 64K
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Protection Class IP69K (front), IP20 (rear) Dimensions and Weights 392x307 mm (15.43x12.08") Faceplate LxH 392x307 mm (15.43x12.08") Cutout AxB 381x296 mm (15x11.65") Depth D+T 56+8.5 mm (2.20+0.33") Weight Approx 4.0 Kg Approvals CE 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, dc<="" ex="" iiic="" t105°c="" tc="" td=""> ATEX II 3D Ex tc IIIC T105°C Dc DNV-GL Yes</tamb<+60°c,>	Storage Temp	-40 to +85 °C
Dimensions and Weights Faceplate LxH 392x307 mm (15.43x12.08") Cutout AxB 381x296 mm (15x11.65") Depth D+T 56+8.5 mm (2.20+0.33") Weight Approx 4.0 Kg Approvals CE 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, dc<="" ex="" iiic="" t105°c="" tc="" td=""> ATEX II 3D Ex tc IIIC T105°C Dc DNV-GL Yes</tamb<+60°c,>	Operating / Storage Humidity	5-85% RH, non condensing
Faceplate LxH 392x307 mm (15.43x12.08") Cutout AxB 381x296 mm (15x11.65") Depth D+T 56+8.5 mm (2.20+0.33") Weight Approx 4.0 Kg Approvals 6 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, dc<="" ex="" iiic="" t105°c="" tc="" td=""> ATEX II 3D Ex tc IIIC T105°C Cc DNV-GL Yes</tamb<+60°c,>	Protection Class	IP69K (front), IP20 (rear)
Cutout AxB 381x296 mm (15x11.65") Depth D+T 56+8.5 mm (2.20+0.33") Weight Approx 4.0 Kg Approvals CE CE Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments UL cULus: UL508 UL UL cULus: Class I Div. 2 IECEx Zone 2/22: Ex nA IIC T4 Gc -20 <tamb<+60°c, dc<="" ex="" iiic="" t105°c="" tc="" td=""> ATEX II 3D Ex tc IIIC T105°C Dc DNV-GL Yes</tamb<+60°c,>	Dimensions and Weights	
Depth D+T 56+8.5 mm (2.20+0.33") Weight Approx 4.0 Kg Approvals 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, dc<="" ex="" iiic="" t105°c="" tc="" td=""> ATEX II 3D Ex tc IIIC T105°C Dc DNV-GL Yes</tamb<+60°c,>	Faceplate LxH	392x307 mm (15.43x12.08")
Weight Approv 4.0 Kg Approvals CE CE Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments UL cULus: UL508 UL cULus: UL508 UL cULus: Class I Div. 2 IECEx Zone 2/22: Ex nA IIC T4 Gc -20 <tamb<+60°c, dc<="" ex="" iiic="" t105°c="" tc="" td=""> ATEX II 3D Ex tc IIIC T105°C Dc DNV-GL Yes</tamb<+60°c,>	Cutout AxB	381x296 mm (15x11.65")
Approvals Emission EN 61000-6-4 Immunity EN 61000-6-2 CE Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments UL UL cULus: UL508 UL cULus: Class I Div. 2 IECEx Zone 2/22: Ex nA IIC T4 Gc -20 <tamb<+60°c, dc<="" ex="" iiic="" t105°c="" tc="" td=""> ATEX II 3D Ex tc IIIC T105°C Dc DNV-GL Yes</tamb<+60°c,>	Depth D+T	56+8.5 mm (2.20+0.33")
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, dc<="" ex="" iiic="" t105°c="" tc="" td=""> ATEX II 3D Ex tc IIIC T105°C Dc DNV-GL Yes</tamb<+60°c,>	Weight	Approx 4.0 Kg
CE 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, dc<="" ex="" iiic="" t105°c="" tc="" td=""> ATEX I30 Ex nA IIC T4 Gc -20<tamb<+60°c< td=""> DNV-GL Yes</tamb<+60°c<></tamb<+60°c,>	Approvals	
Image: Constant of the initial and the initial environments UL cULus: UL508 UL cULus: Class I Div. 2 IECEx Zone 2/22: Ex nA IIC T4 Gc -20 <tamb<+60°c, dc<="" ex="" iiic="" t105°c="" tc="" td=""> ATEX Zone 2/22: II 3G Ex nA IIC T4 Gc -20<tamb<+60°c< td=""> DNV-GL Yes</tamb<+60°c<></tamb<+60°c,>	0F	Emission EN 61000-6-4 Immunity EN 61000-6-2
UL cULus: Class I Div. 2 IECEx Zone 2/22: Ex nA IIC T4 Gc -20 <tamb<+60°c, dc<="" ex="" iiic="" t105°c="" tc="" td=""> ATEX Zone 2/22: II 3G Ex nA IIC T4 Gc -20<tamb<+60°c< td=""> II 3D Ex tc IIIC T105°C Dc II 3D Ex tc IIIC T105°C Dc DNV-GL Yes</tamb<+60°c<></tamb<+60°c,>	UL .	for installation in industrial environments
IECEx Zone 2/22: Ex nA IIC T4 Gc -20 <tamb+60°c, dc<="" ex="" iiic="" t105°c="" tc="" th=""> ATEX Zone 2/22: II 3G Ex nA IIC T4 Gc -20<tamb<+60°c< td=""> II 3D Ex tc IIIC T105°C Dc II 3D Ex tc IIIC T105°C Dc DNV-GL Yes</tamb<+60°c<></tamb+60°c,>	UL	cULus: UL508
ATEX Zone 2/22: II 3G Ex nA IIC T4 Gc -20 <tamb<+60°c II 3D Ex tc IIIC T105°C Dc Yes</tamb<+60°c 	UL	cULus: Class I Div. 2
ATEX Zone 2/22: II 3G Ex nA IIC T4 Gc -20 <tamb<+60°c II 3D Ex tc IIIC T105°C Dc Yes</tamb<+60°c 	IECEx	Zone 2/22: Ex nA IIC T4 Gc -20 <tamb<+60°c, dc<="" ex="" iiic="" t105°c="" tc="" td=""></tamb<+60°c,>
DNV-GL Yes	ATEX	Zone 2/22: II 3G Ex nA IIC T4 Gc -20 <tamb<+60°c< td=""></tamb<+60°c<>
	DNIV-GI	
	RCM	Yes



Ordering Information

Model	Part Number	Description
eTOP515G	+ETOP515U5P1	15" widescreen TFT color projected capacitive touchscreen with Ethernet and USB interfaces. JMobile runtime.