eTOP Workstations for Windows CE

The eTOP industrial workstations for Windows CE are state-of-the-art HMI devices designed to meet the most rugged embedded application needs. They provide a powerful and convenient platform to advantage from the capabilities of the Microsoft Windows CE operating system.
The eTOP workstations are available with touchscreen interface and come in a variety of display technologies and sizes, from 5.6” monochrome to 15” color TFT.
The aluminum bezel offers a rugged and convenient flat design and an appealing look.

Highlights

- **Available with 5.6”, 10.4, 12.1” and 15” displays**
- **Pre-loaded with the Windows CE operating system**
- **Diskless operation**
- **Resistive touch screen**
- **Connection to industrial bus systems including Profibus and DeviceNet (optional)**
- **Ethernet interface (optional)**
- **IP65 front panel protection**

The eTOP workstations for Windows CE are members of the UniOP family of operator interface products. They maintain the same mechanical look and feel of successful UniOP products while adding the connection capabilities and the powerful graphical user interface of the Windows CE operating system.

These products include a novel approach to communication with industrial products: Exor has developed a Windows CE OPC server that can access directly all the communication protocols already available for the UniOP family of HMI products. Currently more than 100 protocols for communication with industrial devices (including the most popular fieldbus systems) are available and ready to run in the eTOP Windows CE workstations.
Any Windows CE application that is an OPC client can immediately benefit from this connection capability.

Technical data

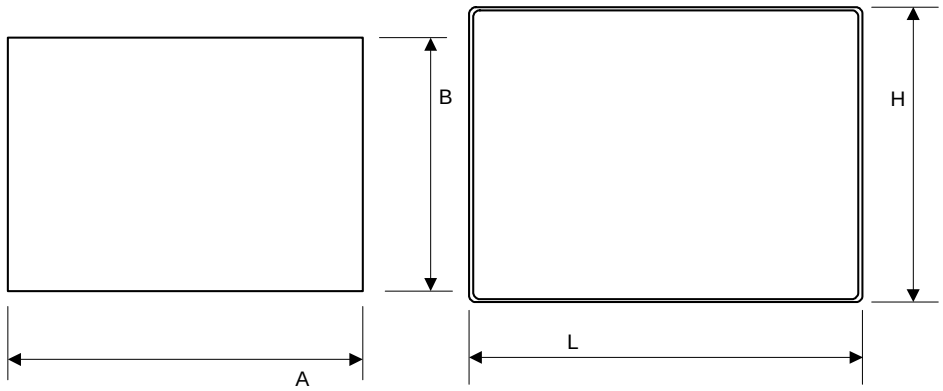
Processing unit	
CPU	MIPS 4300 166 MHz
Flash memory	32 MB SSFDC Flash card (up to 64 MB)
RAM	32 MB SDRAM
Touchscreen	
Type	Analog resistive
Reliability	greater than 1 million operations
Connections	
Port 1	RS-232
Port 2	RS-232, RS-485, RS-422
Aux port	Yes, with optional modules. It is intended for fieldbus and Ethernet connection.
Ethernet	10base-T with optional module TCM10
Power Requirements	
Operating Voltage	18 - 30 VDC
Max Power Consumption	See tables below
Miscellaneous	
Battery	User replaceable lithium battery
Hardware RTC	Yes, battery backed
Screen saver	Yes
Buzzer	Yes, audible feedback for touch screen
Physical Characteristics	
Operating Temperature	0 ÷ +45 °C
Storage Temperature	-20 ÷ +70 °C
Operating and Storage Humidity	5 ÷ 95 % RH non-condensing
Vibrations	10 ÷ 57 Hz, 0,075 mm peak 57 ÷ 150 Hz, 1 g
Shock	50 g, 11 ms, 3 pulses per axis
Protection Class	IP65 front panel
Weight	See tables below

Display and Physical Dimensions

	eTOP110	eTOP111	eTOP112
Display			
Type	5.6” TFT Color LCD	5.6” STN Color LCD	5.6”Mono LCD
Resolution	320x240 1/4 VGA	320x240 ¼ VGA	320x240 1/4 VGA
Colors	256	16	4 Gray shades
Backlight	CCFL	CCFL	CCFL
Max power consumption	~ 0.6 A at 24 VDC	~ 0.6 A at 24 VDC	~ 0.6 A at 24 VDC
Weight	1.4 Kg	1.4 Kg	1.4 Kg
Faceplate LxH	187x147 mm	187x147 mm	187x147 mm
Cutout AxB	176x136 mm	176x136 mm	176x136 mm
Cutout depth	91 mm	91 mm	91 mm

	eTOP130	eTOP132
Display		
Type	10.4” TFT Color LCD	9.4” Mono LCD
Resolution	640x480 VGA	640x480 VGA
Colors	256	4 Gray shades
Backlight	CCFL	CCFL
Max power consumption	~ 0.7 A at 24 VDC	~ 0.7 A at 24 VDC
Weight	2.2 Kg	2.2 Kg
Faceplate LxH	287x232 mm	287x232 mm
Cutout AxB	276x221 mm	276x221 mm
Cutout depth	91 mm	91 mm

	eTOP140	ETOP150
Display		
Type	12.1” TFT Color LCD	15” TFT Color LCD
Resolution	800x600 SVGA	1024x768 XVGA
Colors	256	256
Backlight	CCFL	CCFL
Max power consumption	~ 0.8 A at 24 VDC	~ 1.2 A at 24 VDC
Weight	2.8 Kg	3.8 Kg
Faceplate LxH	337x267 mm	392x307 mm
Cutout AxB	326x256 mm	381x296 mm
Cutout depth	91 mm	101 mm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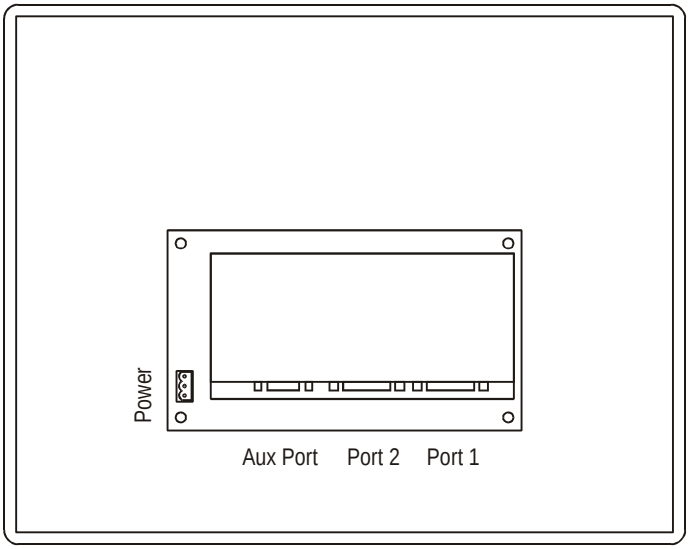
Connections



Port 1

It is the default communication port for asynchronous connection to computers running Microsoft ActiveSync.

Pin	Description
1	Frame Ground
2	RXD
3	TXD
4	+5 V output (max 100mA)
5	GND
6	Reserved
7	Reserved
8	Reserved
9	Reserved
10	RTS
11	CTS
12	Reserved
13	Reserved
14	Reserved
15	Reserved

Port 2

Pin	Description
1	Frame Ground
2	RXD
3	TXD
4	+5 V output (Max 100mA)
5	GND
6	CHA-
7	CHB-
8	TX+ 20 mA
9	TX- 20 mA
10	RTS
11	CTS
12	RX+ 20 mA
13	RX- 20 mA
14	CHA+
15	CHB+

Aux Port

The pin-out of the Aux Port depends on the communication module used.

The communication modules currently available are listed in the table below:

TCM01	Simatic S7 MPI
TCM02	Moeller Suconet K
TCM03	DeviceNet
TCM04	Interbus
TCM08	Profibus DP
TCM09	CANopen
TCM10	Ethernet 10base-T

With the exception of Ethernet, whose support is already included in the Windows CE operating system, in all other cases the Exor Windows CE OPC Server is required to enable the support for fieldbus communication.

Ordering Information

eTOP110-0050	5.6" TFT color, 1/4 VGA, 166 MHz MIPS processor, 32 MB RAM, 16 MB Flash card, Windows CE license included
eTOP111-0050	5.6" STN color, 1/4 VGA, 166 MHz MIPS processor, 32 MB RAM, 16 MB Flash card, Windows CE license included
eTOP112-0050	5.6" monochrome, 1/4 VGA, 166 MHz MIPS processor, 32 MB RAM, 16 MB Flash card, Windows CE license included
eTOP130-0050	10.4" TFT color, VGA,166 MHz MIPS processor, 32 MB RAM, 16 MB Flash card, Windows CE license included
eTOP132-0050	9.4" monochrome, VGA,166 MHz MIPS processor, 32 MB RAM, 16 MB Flash card, Windows CE license included
eTOP140-0050	12.1" TFT color, SVGA, 166 MHz MIPS processor, 32 MB RAM, 16 MB Flash card, Windows CE license included
eTOP150-0050	15" TFT color, XVGA, 166 MHz MIPS processor, 32 MB RAM, 16 MB Flash card, Windows CE license included

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