

**Panel PC, Capacitive multitouch (PCT), 10.1", 2 x Ethernet, 2 x USB 3.0, 1 x RS232, 1 x RS485, Windows 7, Galileo Runtime License**



Powering Business Worldwide™

**Part no. XP-503-10-A10-A00-1B**

**174474**

**EL Number 4560894**

**(Norway)**

Product name	Eaton XP Panel PC
Part no.	XP-503-10-A10-A00-1B
EAN	7640130098145
Product Length/Depth	276 millimetre
Product height	81 millimetre
Product width	179 millimetre
Product weight	2.7 kilogram
Certifications	UL508 CUL508 UL File No.: E205091 DNV GL CSA File No.: C22.2. No. 142-M1987 EMC according to 2014/30/EU Certified by UL for use in Canada CULus UL CE
Product Tradename	XP
Product Type	Panel PC
Product Sub Type	None
Catalog Notes	For CFast memory cards License certificates for onboard interfaces not required Not offered by Eaton
Enclosure material	Aluminum (die-cast)
Features	Min. 32 GByte SSD 1 x RS485 Powerful graphic processor 2 x Ethernet interface 10/100/1000 Mbps 4 GByte DDR3-RAM Fanless CPU and system cooling, natural convection-based passive cooling 1.65 GHz dual-core CPU min. 4 GByte of CFast removable memory 2 x USB host 3.0 1 x DVI-I Customer individual configuration 1 x RS232
Fitted with:	2 x Ethernet 1000/100/10 Mbps (built-in interface) 2 x USB host 3.0 (built-in interface) 1 x RS232 (built-in interface) Touch screen 1 x RS485 (built-in interface) 1 x DVI-I (built-in interfaces)
Functions	Mouse-cursor control integrated
Current consumption	1.2 A max.
Degree of protection	NEMA 12 IP20, rear (according to EN 60529-1)
Degree of protection (front side)	IP65
Emitted interference	Class A (according to EN 55022:2010 and EN 61000-6-4:2007)
Interfaces	Ethernet (10/100/1000 Mbps) RS485 (not galvanically isolated, 9-pin SUB-D plug, UNC) 2 x USB 3.0 Host RS232 (not galvanically isolated, 9-pin SUB-D plug, UNC)
Interference immunity	According to EN 55024:2010 According to EN 61131-2:2007 According to EN 61000-6-2:2005
Model	Die-cast aluminum enclosure and glass front in aluminum frame
Mounting method	Front build in possible Flush mounting - Clearance: Width x Height ≥ 50 mm (1.97"), Depth ≥ 20 mm (0.79") Flush mounting - Inclination from vertical: # ≤ ± 10 ° (if using natural convection)

		Flush mounting Flush mounting - Mounting plate: min. 1.5 mm (0.06"), max. 4 mm
Number of slots		1 (for CFast memory cards)
Product category		Panel PC
Protocol		EtherNet/IP MODBUS Other bus systems
RoHs conformity		Yes
Software		Galileo Open Runtime License Galileo or 3rd party
Type		Industrial PC
Voltage type		DC
Ambient operating temperature - min		0 °C
Ambient operating temperature - max		50 °C
Ambient storage temperature - min		-20 °C
Ambient storage temperature - max		60 °C
Environmental conditions		Condensation: Non-condensing
Operating temperature - min		0 °C
Operating temperature - max		50 °C
Relative humidity		10 - 90 % (non-condensing)
Rated operational voltage		24 V DC (power-supply - safety extra low voltage)
Supply voltage		18-36 V DC, Power supply, permissible voltage
Supply voltage at AC, 50 Hz - min		0
Supply voltage at AC, 50 Hz - max		0
Supply voltage at DC - min		18
Supply voltage at DC - max		36
Display contrast ratio		500:1
Display lighting		Single LED (side-light type)
Display size		222.72 x 125.28 mm 16:9
Display type		Tempered glass with anti-reflective coating TFT
Display viewing angle		70°/70°/70°/50° (left/right/up/down)
Lifespan		50,000 h (Service life of back-lighting)
Luminance intensity		550 cd/m <sup>2</sup>
Number of colors of the display		262144
Pixel resolution		WSVGA 1024 x 600
Screen size (diagonal)		10.1 in
Touch technology		Multi-touch touch panel touch sensor Capacitive multitouch (PCT)
Backup time		5 years, typ. (time at zero voltage)
Battery runtime		Back-up of real-time clock: CR 2032 (220 mA/h, 3 V), replaceable
External memory		Min. 4 GB of CFast removable memory
Internal memory		4 GByte of DDR3 RAM, min. 32 GByte SSD
Memory capacity		4,000 MB
Operating system		Windows Embedded Standard 7
Processor		X86, DualCore 1.65Ghz
Equipment heat dissipation, current-dependent Pvid		29 W
Heat dissipation capacity P <sub>diss</sub>		0 W
Heat dissipation per pole, current-dependent Pvid		0 W
Rated operational current for specified heat dissipation (I <sub>n</sub> )		0 A
Static heat dissipation, non-current-dependent P <sub>vs</sub>		29 W
10.2.2 Corrosion resistance		Meets the product standard's requirements.

10.2.3.1 Verification of thermal stability of enclosures		Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat		Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects		Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation		Please enquire
10.2.5 Lifting		Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact		Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions		Meets the product standard's requirements.
10.3 Degree of protection of assemblies		Meets the product standard's requirements.
10.4 Clearances and creepage distances		Meets the product standard's requirements.
10.5 Protection against electric shock		Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components		Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections		Is the panel builder's responsibility.
10.8 Connections for external conductors		Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength		Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage		Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material		Is the panel builder's responsibility.
10.10 Temperature rise		The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating		Is the panel builder's responsibility.
10.12 Electromagnetic compatibility		Is the panel builder's responsibility.
10.13 Mechanical function		The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## Technical data ETIM 8.0

Programmable logic controllers PLC (EG000024) / Panel PC (EC001414)		
Information, communication and media technology / Computer system for industrial use / Industrial PC / Panel PC (ecl@ss10.0.1-19-20-01-03 [AFR616003])		
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	18 - 36
Voltage type of supply voltage		DC
Number of HW-interfaces industrial Ethernet		2
Number of interfaces PROFINET		0
Number of HW-interfaces RS-232		1
Number of HW-interfaces RS-422		0
Number of HW-interfaces RS-485		1
Number of HW-interfaces serial TTY		0
Number of HW-interfaces USB		2
Number of HW-interfaces parallel		0
Number of HW-interfaces Wireless		0
Number of HW-interfaces other		1
Number of HW-interfaces SCSI		0
Number of HW-interfaces PS2		0
Supporting protocol for PROFIBUS		No
Supporting protocol for CAN		No
Supporting protocol for INTERBUS		No
Supporting protocol for ASI		No
Supporting protocol for KNX		No
Supporting protocol for Modbus		Yes
Supporting protocol for Data-Highway		No
Supporting protocol for DeviceNet		No
Supporting protocol for SUCONET		No
Supporting protocol for LON		No
Supporting protocol for PROFINET IO		No
Supporting protocol for PROFINET CBA		No
Supporting protocol for SERCOS		No
Supporting protocol for Foundation Fieldbus		No

Supporting protocol for EtherNet/IP		Yes
Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for DeviceNet Safety		No
Supporting protocol for INTERBUS-Safety		No
Supporting protocol for PROFIsafe		No
Supporting protocol for SafetyBUS p		No
Supporting protocol for other bus systems		Yes
Radio standard Bluetooth		No
Radio standard Wi-Fi 802.11		No
Radio standard GPRS		No
Radio standard GSM		No
Radio standard UMTS		No
IO link master		No
Type of display		TFT
Screen diagonal	inch	10.1
Number of pixels, horizontal		1,024
Number of pixels, vertical		600
Preinstalled operating system		Windows Embedded Standard 7
Max. main memory	MB	4,000
Integrated keyboard		No
Number of function buttons		0
Number of buttons with LED		0
Number of system buttons		0
With touch screen		Yes
Mouse-cursor control integrated		Yes
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		12
Operating temperature	°C	0 - 50
With hard disc		No
With CD-ROM drive		No
With DVD-drive		No
With CD-RW drive		No
With DVD RW drive		No
With floppy disc drive		No
With other storage media		No
Customer individual configuration		Yes
Number of free AGP-slots		0
Number of free PCI-slots		0
Number of free ISA-slots		0
Number of free PCMCIA-slots		0
Rail mounting possible		No
Wall mounting/direct mounting		No
Front built-in possible		Yes
Rack-assembly possible		No
Mounting type, table foot		No
Mounting type, galleys mounting		No
Suitable for safety functions		No
Width of the front	mm	276
Height of the front	mm	179
Built-in depth	mm	73.5