DATASHEET - XP-504-21-A10-A01-2B

Panel PC, Capacitive multitouch (PCT), 21.5", 2 x Ethernet, 4 x USB 3.0, 1 x RS232, 0 x RS485, Windows 10

Part no. XP-504-21-A10-A01-2B
360002

Product name	Eaton XP Panel PC
Part no.	XP-504-21-A10-A01-2B
EAN	7640130099890
Product Length/Depth	544 millimetre
Product height	89 millimetre
Product width	335.5 millimetre
Product weight	6 kilogram
Certifications	Certified by UL for use in Canada UL RoHS CE UL 61010-1 UL report applies to both US and Canada UL File No.: E205091 UKCA
Product Tradename	XP
Product Type	Panel PC
Product Sub Type	None
Enclosure material	Aluminum (die-cast)
Features	Customer individual configuration Fanless CPU and system cooling, natural convection-based passive cooling
Fitted with:	Touch screen Other storage media 1 x RS232 (built-in interface) 1 x RS485 (built-in interface) 2 x Ethernet 1000/100/10 Mbps (built-in interface)
Degree of protection	NEMA 12 IP65
Degree of protection (front side)	IP65
Explosion safety category for dust	ATEX dust-ex-protection, II 3D Ex tc IIIC T70°C U
Interfaces	Ethernet (10/100/1000 Mbps) 4 x USB 3.0 1 x DP 1 x HDMI 1 x RS232/RS422/485 RS232 (not galvanically isolated, 9-pin SUB-D plug, UNC) RS485 (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
Number of slots	1 (for SD-Card)
Product category	Panel PC
Protocol	EtherNet/IP MODBUS Other bus systems
RoHs conformity	Yes
Software	Galileo or 3rd party
Type	Industrial PC
Used with	XP500
Voltage type	DC
Ambient operating temperature - min	0 °C
Ambient operating temperature - max	45 °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	45 °C
Rated operational voltage	24 V DC (power-supply - safety extra low voltage)
Supply voltage at AC, 50 Hz - min	0 V AC
Supply voltage at AC, 50 Hz - max	0 V AC
Supply voltage at DC - min	18 V DC
Supply voltage at DC - max	36 V DC
Display lighting	LED Dimmable via software
Display size	476.64 x 268.11 mm 16:9
Display type	TFT Tempered glass with anti-reflective coating
Display viewing angle	89°/89°/89°/89° (left/right/up/down)
Lifespan	50,000 h (Service life of back-lighting)
Luminance intensity	350 cd/m²
Number of colors of the display	16777216
Pixel resolution	1920 x 1080 WUXGA
Screen size (diagonal)	21.5 in
Touch technology	Capacitive multitouch (PCT) Multi-touch touch panel touch sensor
Backup time	5 years, typ. (time at zero voltage)
Operating system	Windows 10
Equipment heat dissipation, current-dependent Pvid	48 W
Static heat dissipation, non-current-dependent Pvs	48 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 to enclosures without lifting aids.
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	Is the panel builder's responsibility.
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) / Industrial PC (EC001413)		
Information, communication and media technology / Computer system for industrial use / Industrial PC / Industrial PC (built-in) (ecl@ss10.0.1-19-20-01-02 [ACM011012])		
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		0
Number of HW-interfaces serial TTY		0
Number of HW-interfaces USB		4
Number of HW-interfaces parallel		0
Number of HW-interfaces Wireless		0
Number of HW-interfaces other		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
Suitable for operating system Windows 9x		No
Suitable for operating system Windows 2000		No
Suitable for operating system Windows XP		No
Suitable for operating system Windows ME		No
Suitable for operating system Windows CE		No
Suitable for operating system Linux		No
Suitable for operating system Windows Vista		No
Suitable for operating system Windows 2003 Server		No
Suitable for operating system Windows 7		No
Suitable for operating system Windows 8		No
Suitable for other operating system		No
Preinstalled operating system		Windows 10

Max. main memory		MB	8
Degree of protection (IP)			IP65
Degree of protection (NEMA)			12
Operating temperature		°C	0 - 45
Construction type housing			Other
With hard disc			No
Processor type			Intel Atom
Processor clock rate		GHz	2
With graphic card			No
With sound card			No
With optical drive			No
With floppy disc drive			No
Number of free AGP-slots			0
Number of free PCI-slots			0
With other storage media			Yes
Number of free ISA-slots			0
Number of free PCMCIA-slots			0
Number of other free slots			0
Rail mounting possible			No
Wall mounting/direct mounting			No
Front built-in possible			Yes
Rack-assembly possible			No
Number of storage media bays			1
Suitable for safety functions			No
Width		mm	335.5
Height		mm	89
Depth		mm	544
Memory capacity hard disc		TB	0.064

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