DATASHEET - XP-504-10-A10-A01-2B



Panel-PC, capacitive multi-touch (PCT), 10.1", 2xEthernet, 4xUSB3.0, 1xRS232/RS422/485, 1x HDMI, 1 xDP, Slot for SD card, Galileo Runtime License, Windows 10 Enterprise LTSC, ATEX certification



Part no. XP-504-10-A10-A01-2B Catalog No. 199996

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Delivery program		
Product range		Visualisation solutions XP
Product range		IPC XP-504
Subrange		Panel-PC
Function		Industrial PC
Description		Panel PC, industrial PC for flush mounting with Capacitive multi-touch screen (PCT) up to two XP-504 series terminals can be connected
Common features of the model series		DualCore CPU 1,60 GHz Powerful graphic processor 8 GB RAM 64 GB mSATA 8-GB SD card
Display - Type		Color display, TFT
Touch-technology		Capacitive multi-touch technology (PCT)
Number of colours		262144 colors
Resolution	Pix	1280 x 800 WXGA+
Portrait format		yes (at max.T + 45°C)
Screen diagonal	Inc	nch 10.1 widescreen
Model		Glass front in aluminum frame, housing made from galvanized sheet steel, aluminum heat sink
Operating system		Windows 10 Enterprise LTSC
PLC-licence		Not offered by Eaton
License certificates for onboard interfaces		Not required
built-in interfaces		2 x Ethernet 1000/100/10 Mbps 4 x USB 3.0 1 x RS232/RS422/485 1 x DP 1 x HDMI
Front type		Tempered glass with anti-reflective coating
Utilization		Flush mounting
Slots		for SD card: 1
Memory card automation		Optionally with SD card -> article no. 181638
Pluggable communication cards (optional)		no
Touch sensor		Multi-touch touch panel
Heat dissipation	W	V 38.4

Technical data Display

Display - Type			Color display, TFT
Screen diagonal			10.1 widescreen
Resolution			1280 x 800 WXGA+
Visible screen area		mm	222.72 x 125.28
Format			16:10
Viewing range	[left/right/up/ down]	o (Degrees)	85°/85°/80°/80°
Number of colours			262144 colors
Contrast ratio (Normally)			Normally 900:1
Brightness		cd/m ²	Normally 500

Amounts and money and public plants Amounts and money and mone	Back-lighting			LED
	Back-lighting			
	Service life of back-lighting		h	Normally 50000
Walter founds	Operation			
	Technology			Projected Capacitive Touch (PCT)
Immension	Touch sensor			Multi-touch touch panel
	System			
Second per SO or SOME in secondence with the SOA 23 specification, min SCB colong scale up of neal-sime flocks	Processor			Intel Atom E3950 QuadCore 2 GHz
	Internal memory			64 GB mSATA
Battery (traverse life Seath prime at area voltage) Seath prime at a voltage) Seath prime at	External memory			SD card type: SD or SDHC in accordance with the SDA 2.0 specification, min. 8 GB
Backup (service life) Sea substance (No. 1) Minum Penesonic 8/0002 (NY. 1) Minum A) file 8/05, typach 5 dalam or minum projecting (Ny. 1) minum Penesonic 8/0002 (NY. 1) Minum P	Cooling			Fanless CPU and system cooling, natural convection-based passive cooling
Section Filter at zero valdage	Back-up of real-time clock			
	Battery (service life)			austauschbar, Lithium Panasonic BR2032 (3V, 190mAh) für BIOS, typisch 5 Jahre
	Backup (time at zero voltage)			Normally 5 years
	Engineering			
Mindows 10 Enterprise LTSC Interfaces	Visualisation software			Galileo or 3rd party
Note 1985	PLC-licence			Not offered by Eaton
will-in interfaces 2. Emmert 1000/100/10 Mbgs 4, vis 83 a.0 1 k 8322486 s.1 k 8322486 s.1 k 8322486 s.1 k 100 m.1 k	Operating system			Windows 10 Enterprise LTSC
	Interfaces, communication			
	built-in interfaces			4 x USB 3.0 1 x RS232/RS422/485 1 x DP
Not galvanically isolated, 9-pin D-sub plug, UNC Interest	USB Host			4 x USB 3.0
Not quivanically isolated, 9-pin D-sub plug, UNC Internet	RS-232			Not galvanically isolated, 9-pin D-sub plug, UNC
Content Cont	RS-485			Not galvanically isolated, 9-pin D-sub plug, UNC
Adminal voltage semissible voltage semissibl	Slots			for SD card: 1
Nominal voltage Nomina	Ethernet			1000/100/10 Mbps
remissible voltage Pax. W 29 Aver consumption Pax. W 29 Aver consumption I A A 38 Aver consumption I A 48 Aver consumption I Aver	Power supply			
Peace of protection (IEC/EN 80529, EN50178, VBG 4) Approvals definite directions protection (according to ATEX 94/9/EC) Enited interference immunity Energy Energy Energy Approvals Enited interference immunity Enited interference immunity Ar pressure (aparsure (apar	Nominal voltage			24 V DC SELV (safety extra low voltage)
test dissipation W 38.4 Current consumption I A max.1.6 A Temperated parameterial Frame made of milled aluminum Temperated glass with anti-reflective coating Temperated glass with anti-reflective coati	permissible voltage			18-36 V DC
Frame made of milled aluminum from type from type frame made of milled aluminum from type general glass with anti-reflective coating framework glass with anti-reflective coating general	Power consumption	P _{max} .	W	29
Reneral Relevant Rele	Heat dissipation		W	38.4
Transmissions (Wx H x D) Inclination from Vertical: 45° 51 520 x 199.2 x 89 Clearance: Wx H ± 50 mm (1.97), T ≥ 20 mm (0.79) Inclination from vertical: 45° 51 51° at operating temperatures ≤ 45°C (113°F) (if using natural convection) Mounting plate: min. 1.5 mm (0.06°), max. 4 mm (0.16°) Veight Veight Veight Veigere of protection (IEC/EN 60529, EN50178, VBG 4) Veight Approvals Approvals Certificate Explosion protection (according to ATEX 94/9/EC) Inclination protection (according to ATEX 94/9/EC) Emitted interference Immunity Transmade of milled aluminum Tempered glass with anti-reflective coating Mounting plate: min. 1.5 mm (0.06°), max. 4 mm (0.16°) Nounting plate: min. 1.	Current consumption	1	Α	max. 1.6 A
Tempered glass with anti-reflective coating Page Pag	General			
mm 28.0.5 x 199.2 x 89 Clearance: W x H ≥ 50 mm (1.97"), T ≥ 20 mm (0.79") Inclination from vertical: 4.45° ≤ al ≤ -10° at operating temperatures ≤ 45°C (113°F) (if using natural convection) Mounting plate: min. 1.5 mm (0.06"), max. 4 mm (0.16") Mounting plate: min.	Housing material			Frame made of milled aluminum
Lush mounted Clearance: W x H ≥ 50 mm (1.97), T ≥ 20 mm (0.79) Inclination from vertical: .45° ≤ a ≤ -10° at operating temperatures ≤ 45°C (113°F) (if unique nettical) in the protection of the protection of the protection of the protection of the protection (IEC/EN 60529, EN50178, VBG 4) Approvals Approvals Approvals Explosion protection (according to ATEX 94/9/EC) Explosion protection (according to ATEX 94/9/EC) Emitted interference EMC Emitted interference Interference immunity Interference immunity The protection of the protection	Front type			Tempered glass with anti-reflective coating
Inclination from vertical: +45° ≤ a ≤ -10° at operating temperatures ≤ 45°C (113°F) (if wing natural convection) wing natural conditions Inclination from vertical: +45° ≤ a ≤ -10° at operating temperatures ≤ 45°C (113°F) (if wing natural convection) (wong natural conditions Inclination from vertical: +45° ≤ a ≤ -10° at operating temperatures ≤ 45°C (113°F) (if wing natural convection) (wong natural convection) (wong natural convection) (wong natural convection) (wong natural conditions Inclination from vertical: +45° ≤ a ≤ -10° at operating temperatures ≤ 45°C (113°F) (if wing natural convection) (wong nat	Dimensions (W x H x D)		mm	280.5 x 199.2 x 89
Pegree of protection (IEC/EN 60529, EN50178, VBG 4) Approvals Approvals Approvals Approvals Certificate Explosion protection (according to ATEX 94/9/EC) Applied standards and directives EMC Emitted interference Emitted interference Interference immunity As per EN 55022:2010 Class A and EN 61000-6-4:2007 EN 61131-2:2007 FOR 61131-2:2007 F	flush mounted			Inclination from vertical: +45° $\leq \alpha \leq$ -10° at operating temperatures \leq 45°C (113°F) (if using natural convection)
Approvals Approvals Approvals Approvals Approvals Certificate Explosion protection (according to ATEX 94/9/EC) II 3D Ex tc IIIC T70°C U Applied standards and directives EMC Emitted interference Interference immunity Interference immunity Tree fall, packaged Tree fall, package	Weight		kg	2.7
Approvals Approvals Approvals Certificate Explosion protection (according to ATEX 94/9/EC) Applied standards and directives EMC Emitted interference Interference immunity Inte	Degree of protection (IEC/EN 60529, EN50178, VBG 4)			
Approvals certificate Explosion protection (according to ATEX 94/9/EC) Applied standards and directives EMC Emitted interference Emitted interference immunity Interference immunity Tree fall, packaged Total To	Approvals			pol 1421117 200 2000)
certificate Explosion protection (according to ATEX 94/9/EC) Applied standards and directives EMC Emitted interference Interference immunity As per EN 55024:2010 Class A and EN 61000-6-4:2007 As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007 Tree fall, packaged As per EN 5004:2010 and EN 61000-6-2:2005 EN 61131-2:2007 Tree fall, packaged As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007 Tree fall, packaged As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007 Tree fall, packaged As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007 Tree fall, packaged As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007 Tree fall, packaged As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007 Tree fall, packaged As per EN 55024:2010 and EN 61000-6-4:2007 As per EN 55024:2010 and EN 61000-6-4:2007				UL
Explosion protection (according to ATEX 94/9/EC) Applied standards and directives EMC Emitted interference Interference immunity As per EN 55022:2010 Class A and EN 61000-6-4:2007 As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007 As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007 Tree fall, packaged As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007 Tree fall, packaged As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007 Tree fall, packaged As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007 Tree fall, packaged As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007 Tree fall, packaged As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007 Tree fall, packaged As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007 Tree fall, packaged As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007 Tree fall, packaged As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007 Tree fall, packaged As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007 Tree fall, packaged As per EN 55024:2010 and EN 61000-6-4:2007 As per EN 5				
Applied standards and directives EMC according to 2004/108/EC Emitted interference Interference immunity As per EN 55022:2010 Class A and EN 61000-6-4:2007 As per EN 55022:2010 and EN 61000-6-2:2005 EN 61131-2:2007 Tree fall, packaged The gemäß ICE/EN 60068-2-32 Conform Invironmental conditions Air pressure (operation) Applied standards and directives according to 2004/108/EC As per EN 55022:2010 Class A and EN 61000-6-4:2007 As per EN 55022:2010 Class A and EN 61000-6-2:2005 EN 61131-2:2007 m gemäß ICE/EN 60068-2-32 conform Air pressure (operation) Air pressure (operation)				
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Emitted interference As per EN 55022:2010 Class A and EN 61000-6-4:2007 As per EN 55022:2010 and EN 61000-6-2:2005 EN 61131-2:2007 Tree fall, packaged m gemäß ICE/EN 60068-2-32 conform Invironmental conditions Climatic environmental conditions Air pressure (operation) hPa 795 - 1080				according to 2004/108/FC
Interference immunity As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007 m gemäß ICE/EN 60068-2-32 conform Invironmental conditions Air pressure (operation) As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007 m gemäß ICE/EN 60068-2-32 conform 795 - 1080				
EN 61131-2:2007 ree fall, packaged m gemäß ICE/EN 60068-2-32 RoHS conform nvironmental conditions Climatic environmental conditions Air pressure (operation) hPa 795 - 1080				
conform nvironmental conditions Climatic environmental conditions Air pressure (operation) hPa 795 - 1080	interference immunity			
Invironmental conditions Climatic environmental conditions Air pressure (operation) hPa 795 - 1080	Free fall, packaged		m	gemäß ICE/EN 60068-2-32
Air pressure (operation) hPa 795 - 1080	RoHS			conform
Air pressure (operation) hPa 795 - 1080	Environmental conditions			
	Climatic environmental conditions			
emperature Programme Progr			hPa	795 - 1080
	Temperature			

Storage / Transport	9	°C	-20 - +60
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	+ 45
Relative humidity			
Condensation			Non-condensing
Relative humidity			20–85%, non-condensing

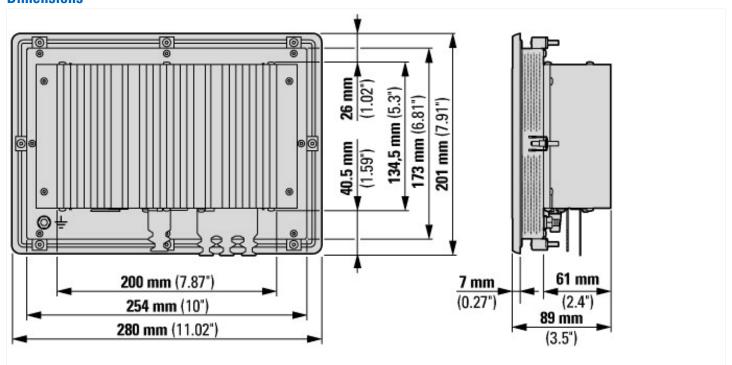
Design verification as per IEC/EN 61439

Technical data for design verification			
Static heat dissipation, non-current-dependent	P _{vs}	W	38.4
Operating ambient temperature min.	**3	°C	0
Operating ambient temperature max.		°C	45
Degree of Protection			IP65 (in the front as per EN 60529-1), IP20 (on rear as per EN 60529-1) NEMA12 (as per NEMA 250-2003) UL: 50E, Type 4X (indoor use), Type 12 (at the front)
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties			
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.

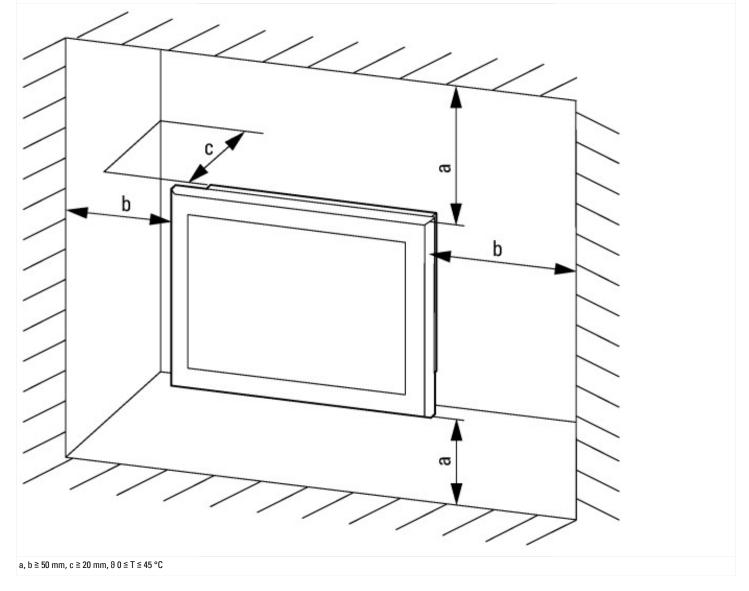
Approvals

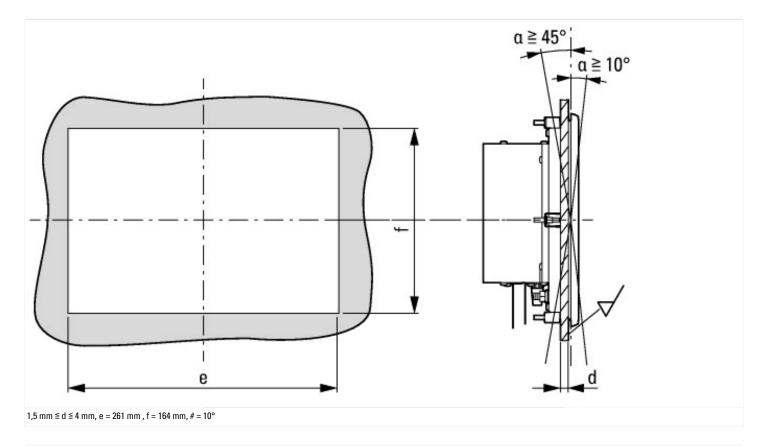
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Product Standards	UL61010-1
UL File No.	E205091
CSA File No.	UL report applies to both US and Canada
North America Certification	UL recognized, certified by UL for use in Canada
Specially designed for North America	No
Degree of Protection	IEC: IP65

Dimensions



XP-504 industrial PC with 10.1" screen diagonal





Additional product information (links)

Montageanweisung XP-504 IL048016ZU	
Montageanweisung XP-504 IL048016ZU	https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL048016ZU.pdf
XP-504 MN048028 manual	
Handbuch XP-504 MN048028 - Deutsch	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN048028DE.pdf
XP-504 MN048028 manual - English	https://es-assets.eaton.com/D0CUMENTATION/AWB_MANUALS/MN048028EN.pdf
f1=1454&f2=1242&f3=1773;Download Software GALILEO	http://applications.eaton.eu/sdlc?LX=11&
Produktübersicht (WEB)	http://www.eaton.com/xp500