DATASHEET - XP-503-15-A10-A00-1V



15, 6" panel PC with capacitive multi-touch (PCT), 2xEthernet, 2xUSB3.0, 1xRS232, 1xRS485, Visual Designer Runtime



Part no. XP-503-15-A10-A00-1V

Catalog No. 174478

Alternate Catalog XP-503-15-A10-A00-1V

No.

Similar to illustration

Delivery program

Delivery program		
Product range		Visualisation solutions XP
Product range		XP-503
Function		Industrial PC
Description		Panel PC with capacitive multitouch display
Common features of the model series		1.65 GHz dual-core CPU Powerful graphic processor 4GB DDR3-RAM Min. 32 GB SSD min. 4 GB of CFast removable memory 2x Ethernet interface 10/100/1000 Mbps 2x USB host 3.0 1x RS232 1x RS485 1x DVI-I Windows Embedded Standard 7 Galileo Open Runtime License Approvals CE, cUL508, CUL Class 1 Div 2 in preparation
Display - Type		Color display, TFT
Touch-technology		Capacitive multi-touch technology (PCT)
Number of colours		16.7 mil.
Resolution	Pixel	WXGA 1366 x 768
Portrait format		no
Screen diagonal	Inch	15.6 widescreen
Model		Die-cast aluminum enclosure and glass front in aluminum frame
Operating system		Windows Embedded Standard 7 Kit "P" (32bit) VISUAL DESIGNER Runtime License
PLC-licence		Not offered by Eaton
License certificates for onboard interfaces		Not required
built-in interfaces		2 x Ethernet 1000/100/10 Mbps 2 x USB host 3.0 1 x RS232 1 x RS485 1 x DVI-I
Front type		Tempered glass with anti-reflective coating
Utilization		Flush mounting
Slots		For CFast memory cards: 1
Memory card automation		For CFast memory cards
Pluggable communication cards (optional)		no
Touch sensor		Multi-touch touch panel
Heat dissipation	W	36

Technical data

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Dispiay		
Display - Type		Color display, TFT
Screen diagonal	Inch	15.6 widescreen
Resolution	Pixel	WXGA 1366 x 768
Visible screen area	mm	344.23 x 193.54
Format		16:9

Viewing range	[left/right/up/down]	。 (Degrees)	85°/85°/80°/80°
Number of colours			16.7 mil.
Contrast ratio (Normally)			Normally 500:1
Brightness		cd/m ²	Normally 300
Back-lighting			LED
Service life of back-lighting		h	Normally 50000
Operation			
Technology			Projected Capacitive Touch (PCT)
Touch sensor			Multi-touch touch panel
System			
Processor			x86, DualCore 1.65Ghz
Internal memory			4 GB of DDR3 RAM, min. 32 GB SSD
External memory			Min. 4 GB of CFast removable memory
Cooling			Fanless CPU and system cooling, natural convection-based passive cooling
Back-up of real-time clock			
Battery (service life)			Replaceable, Lithium CR2032 (220 mAh, 3V)
Backup (time at zero voltage)			Normally 5 years
Engineering			
Visualisation software			VISUAL DESIGNER
PLC-licence			Not offered by Eaton
Operating system			Windows Embedded Standard 7 Kit "P" (32bit) VISUAL DESIGNER Runtime License
Interfaces, communication			
built-in interfaces			2 x Ethernet 1000/100/10 Mbps 2 x USB host 3.0 1 x RS232 1 x RS485 1 x DVI-I
USB Host			2 x USB 3.0
RS-232			Not galvanically isolated, 9-pin D-sub plug, UNC
RS-485			Not galvanically isolated, 9-pin D-sub plug, UNC
Slots			For CFast memory cards: 1
Ethernet			10/100/1000 Mbps
Power supply			g 18 111 1p
Nominal voltage			24 V DC SELV (safety extra low voltage)
permissible voltage			18-36 V DC
Heat dissipation		W	36
Current consumption	1	Α	max. 1.5 A
General			
Housing material			Aluminium die-cast
Front type			Tempered glass with anti-reflective coating
Dimensions (W x H x D)		mm	404 x 255 x 83
flush mounted			Clearance: W x H \geq 50 mm (1.97"), T \geq 20 mm (0.79") Inclination from vertical: # \leq \pm 10 ° (if using natural convection) Mounting plate: min. 1.5 mm (0.06"), max. 4 mm
Weight		kg	4.95
Degree of protection (IEC/EN 60529, EN50178, VBG 4)			IP65 (in the front as per EN 60529-1), IP20 (on rear as per EN 60529-1), NEMA12 (as per NEMA 250-2003)
Approvals			
Approvals			cUL (UL508)
certificate			CE
shipping classification			DNV GL
			MARITIME
Applied standards and directives			
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Emitted interference			As per EN 55022:2010 Class A and EN 61000-6-4:2007
Interference immunity			As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007
Free fall, packaged		m	gemäß ICE/EN 60068-2-32
RoHS			conform
Environmental conditions			
Climatic environmental conditions			
Air pressure (operation)		hPa	795 - 1080
Temperature			
Storage / Transport	θ	°C	-20 - +60
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	+ 50
Relative humidity			
Condensation			Non-condensing
Relative humidity			10 - 90%, non condensing

Design verification as per IEC/EN 61439

Technical data for design verification			
Static heat dissipation, non-current-dependent	P _{vs}	W	36
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Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	50
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)
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, 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 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.

Technical data ETIM 7.0

PLC's (EG000024) / Panel PC (EC001414)		
Information, communication and media technology / Computer system for industria	al use / Industrial PC / Pa	nel 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

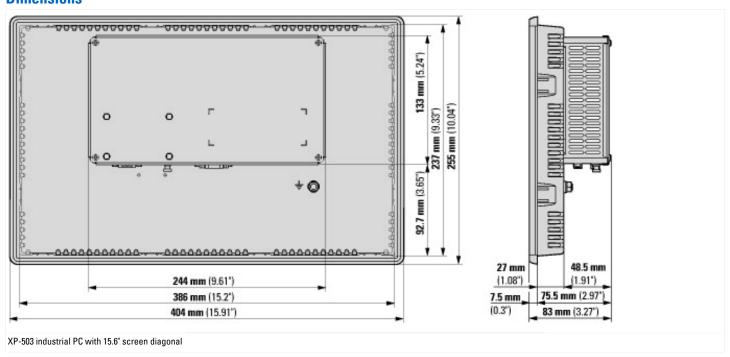
Values time of amplituditors		DC
Voltage type of supply voltage		DC
Number of HW-interfaces industrial Ethernet		2
Number of interfaces PROFINET		0
Number of HW-interfaces RS-232		1
Number of HW-interfaces RS-422		0
Number of HW-interfaces RS-485		1
Number of HW-interfaces serial TTY		0
Number of HW-interfaces 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 WLAN 802.11		No
Radio standard GPRS		No
Radio standard GSM		No
Radio standard UMTS		No
10 link master		No
Type of display		TFT
Screen diagonal	inch	15.6
Number of pixels, horizontal		1366
Number of pixels, vertical		768
Preinstalled operating system		Embedded Windows XP
Max. main memory	MB	4000
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
Operation temperature	°C	0 - 50
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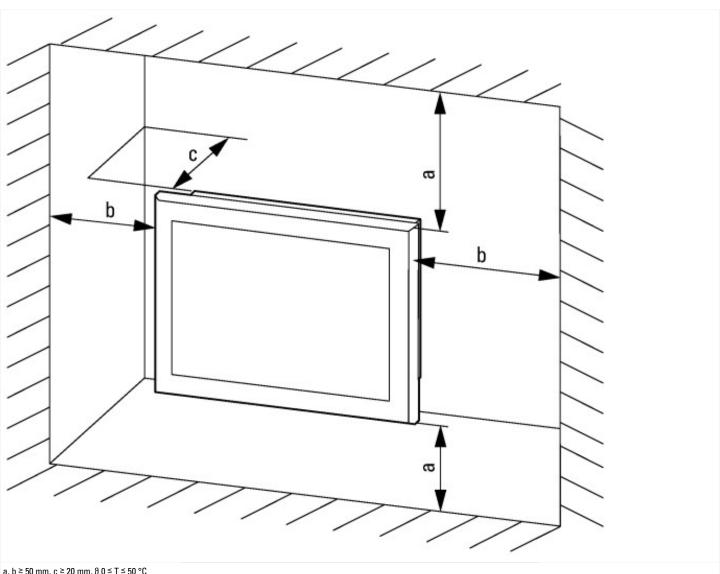
With hard disc		No
With CD-ROM drive		No
With DVD-drive		No
With CD-RW drive		No
With DVD RW drive		No
With floppy disc drive		No
With other storage media		No
Customer individual configuration		Yes
Number of free AGP-slots		0
Number of free PCI-slots		0
Number of free ISA-slots		0
Number of free PCMCIA-slots		0
Rail mounting possible		No
Wall mounting/direct mounting		No
Front build in possible		Yes
Rack-assembly possible		No
Mounting type, table foot		No
Mounting type, gallows mounting		No
Suitable for safety functions		No
Width of the front	mm	404
Height of the front	mm	255
Built-in depth	mm	75.5

Approvals

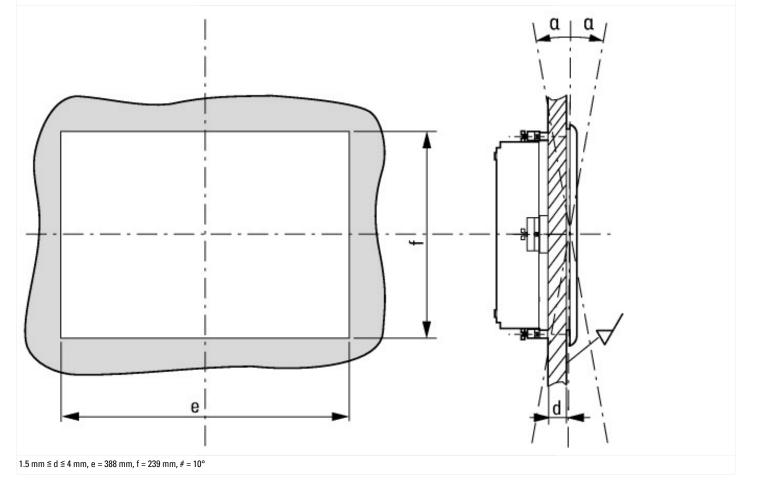
Product Standards	UL508, cULus; CE
UL File No.	E205091
CSA File No.	C22.2. No. 142-M1987
North America Certification	UL listed, certified by UL for use in Canada
Specially designed for North America	No
Current Limiting Circuit-Breaker	No
Degree of Protection	IEC: IP65, UL/CSA Type: -

Dimensions









Assets (links)

Declaration of CE Conformity

00003062

Instruction Leaflets

IL048006ZU2018_02

Manuals

MN048014_DE (German) MN048014_EN (English)

Additional product information (links)

Instruction leaflet XP-503 IL048006ZU	
Instruction leaflet XP-503 IL048006ZU	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL048006ZU2018_02.pdf
Manual XP-503 Panel PC MN048014	
Handbuch XP-503 Panel-PC MN048014 - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN048014_DE.pdf
Manual XP-503 Panel PC MN048014 - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN048014_EN.pdf
f1=1454&f2=1242&f3=1773;Download Software GALILEO	http://applications.eaton.eu/sdlc?LX=11&
Product overview (WEB)	http://www.eaton.eu/xp500