

Panel PC with capacitive multi-touch (PCT), 15, 6", 2xEthernet, 2xUSB3.0, 1xRS232, 1xRS485, Galileo Runtime License, ATEX certification II 3D



Part no. XP-503-15-A10-A01-1B

Article no. 184582

Catalog No. XP-503-15-A10-A01-1B

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" (64bit) GALILEO 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
Pluggable communication cards (optional)		no
Heat dissipation	W	36

Technical data Display

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

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Operation			
Technology			PCT
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)			Zero maintenance
Backup (time at zero voltage)			Normally 10 years
Operating system			Windows Embedded Standard 7 Kit "P" (64bit) GALILEO Runtime License
Engineering			
Visualisation software			Galileo or 3rd party
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
PLC-licence			Not offered by Eaton
Slots			For CFast memory cards: 1
Power supply			
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: \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), ATEX
certificate			CE
Explosion protection (according to ATEX 94/9/EC)			II 3D Ex tc IIIC T70°C U
Applied standards and directives			
EMC			according to 2004/108/EC
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			
Temperature			
Operation	9	°C	0 - +50

Temperature			
Operation	8	°C	0 - +50
Storage / Transport	8	°C	-20 - +60
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	+ 50
Relative humidity			
Relative humidity			10 - 90%, non condensing

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0

Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	36
Heat dissipation capacity	P _{diss}	W	0
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 6.0

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PLC's (EG000024) / Panel PC (EC001414)				
Electric engineering, automation, process control engineering / Control / Operate a	nd Observe (HMI) / Pai	nel PC (ecl@ss8.1-27-24-23-01 [BAA721010])		
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 HW-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		

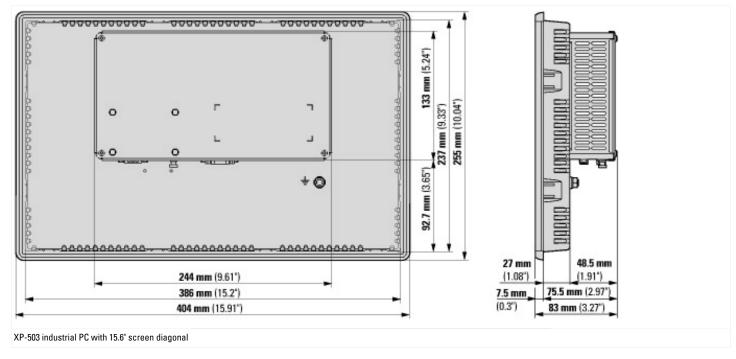
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Wall mounting/direct mounting No			
Front build in possible Yes			
	Front build in possible		Yes

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



Additional product information (links)

Instruction leaflet XP-503 IL048006ZU	
Instruction leaflet XP-503 IL048006ZU	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL048006ZU2014_12.pdf
MN048014 XP-503 Panel PC manual	
MN048014 XP-503 Panel PC manual - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN048014_DE.pdf
MN048014 XP-503 Panel PC manual - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN048014_EN.pdf