

XP Operator Interface



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XP-503 with Visual Designer

Product Description

The XP-500 series sets a new standard for HMI and SCADA controls. Capacitive multi-touch displays allow familiar intuitive gestures for zoom, scroll and swipe, and offer increased safety to your system with two hand or multiple button activation control for critical functions.

XP-500 Panel PCs run on an open Windows Embedded Standard 7 Operating System to support all Windows standard PC applications and feature Protect Mode™ for preventing unauthorized changes to the operating system.

XP-500 units come with advanced yet easy-to-use Visual Designer software pre-installed and licensed.

All these features come standard in a package that is slim and modern in design yet also rugged. With no fan or moving parts, a scratch-resistant glass screen, and powder-coated aluminum body, XP-500 is fit for any industrial application.

Features

XP-500 series operator interface with Windows Embedded Standard 7 operating system

- 10.1, 15.6 and 21.5 inch high resolution widescreen displays
- Projected capacitive touchscreen supports gestures and recognizes up to 4 simultaneous touch inputs
- Remote access to mobile devices or tablets using HTML5 interface
- 1.65 GHz Dual Core CPU with fast Radeon™ HD graphics for best-in-class speed and graphics performance

- 4 GB DDR3-RAM large memory for parallel processing and increased system performance
- 32 GB internal solid-state drive high volume internal memory
- 2 independent Ethernet ports standard for separation of IT and process level communications
- All solid-state media and no moving parts or fan increases reliability
- Non-corruptible OS with Protect Mode increases security and reliability

Standards and Certifications

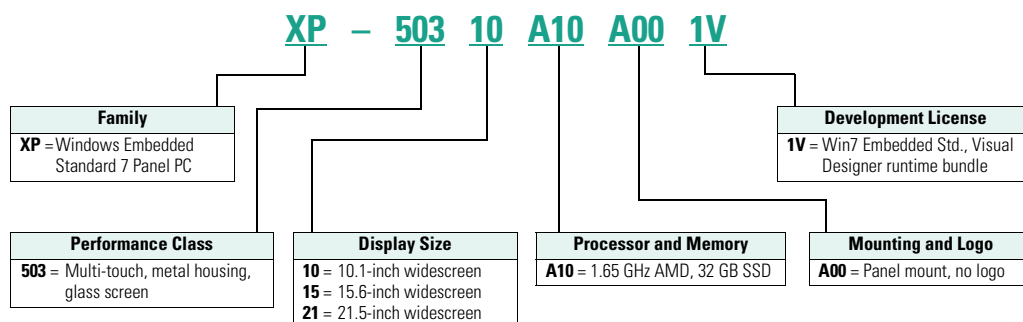
- UL/cUL (UL 508)
- CE Mark
- UL Class 1 Div 2 (Groups A, B, C, D)
- ATEX Zone 22, Category 3D
- Front
 - IP65, NEMA 4X (indoor), NEMA 12
- Rear
 - IP20



Catalog Number Selection

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XP



Product Selection

Series Information

All XP-500 models have a Microsoft® Windows Embedded Standard 7 operating system and are pre-licensed with Visual Designer runtime. The standard license is for 4000 tags, 5 simultaneous communication drivers and 1 Web session each of 3 types—Thin Client, Secure Viewer and Mobile Access. Field upgrades are available for 64,000 tags, 8 drivers and 2, 4, 8, 16, 32, 64 or 128 simultaneous Web sessions of each type.

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Description

Description	Catalog Number
XP 10.1-inch widescreen with multi-touch, 1.65 GHz dual core CPU, 4 GB DDR3-RAM, 4 GB CFast memory, 4000 tags, 5 drivers, 1 Web session	XP-503-10-A10-A00-1V
XP 15.6-inch widescreen with multi-touch, 1.65 GHz dual core CPU, 4 GB DDR3-RAM, 4 GB CFast memory, 4000 tags, 5 drivers, 1 Web session	XP-503-15-A10-A00-1V
XP 21.5-inch widescreen with multi-touch, 1.65 GHz dual core CPU, 4 GB DDR3-RAM, 4 GB CFast memory, 4000 tags, 5 drivers, 1 Web session	XP-503-21-A10-A00-1V

Notes

- ① All 5XX units have 2 x 10/100/1000 Ethernet, 2 x USB 3.0, 1 x RS-232, 1 x RS-485, 1 x DVI-I.
- ② Standard software on embedded hardware.

Accessories

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Description

Catalog Number

XP-702 spare part kit for all XP models—1 power connector, 8 mounting brackets, 1 sealing strip

ACC-TP-57-RES-1

Technical Data and Specifications

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10.1-inch XP-503-10-A10-A00-1V



15.6-inch XP-503-15-A10-A00-1V



21.5-inch XP-503-21-A10-A00-1V

Model	10.1-inch XP-503-10-A10-A00-1V	15.6-inch XP-503-15-A10-A00-1V	21.5-inch XP-503-21-A10-A00-1V
Display			
Screen diagonal	10.1-inch widescreen	15.6-inch widescreen	21.5-inch widescreen
Resolution	1024 x 600 pixels	1366 x 768 pixels	1920 x 1080 pixels
Backlight	LED, dimmable via software	LED, dimmable via software	LED, dimmable via software
Display brightness (typical)	500 cd/m ²	300 cd/m ²	250 cd/m ²
Contrast ratio (typical)	500:1	500:1	1000:1
Operation			
Touch sensor	Multi-touch touchscreen (4 simultaneous touches)	Multi-touch touchscreen (4 simultaneous touches)	Multi-touch touchscreen (4 simultaneous touches)
Technology	Projected Capacitive Touch (PCT)	Projected Capacitive Touch (PCT)	Projected Capacitive Touch (PCT)
Enclosures			
Front glass	Non-reflective tempered glass	Non-reflective tempered glass	Non-reflective tempered glass
Bezel	Powder-coated aluminum	Powder-coated aluminum	Powder-coated aluminum
Device dimensions (w x h x d)	275 x 179 x 80 mm	404 x 255 x 80 mm	536 x 328 x 83 mm
Installation cutout (w x h)	261 x 164 mm	387 x 238 mm	519 x 313 mm
Weight	2.6 kg	4.8 kg	7.8 kg
System			
Processor	AMD GX217GA 1.65 GHz DualCore	AMD GX217GA 1.65 GHz DualCore	AMD GX217GA 1.65 GHz DualCore
Graphic	AMD Radeon HD8280E 450 MHz	AMD Radeon HD8280E 450 MHz	AMD Radeon HD8280E 450 MHz
Memory	4 GB DDR3-RAM	4 GB DDR3-RAM	4 GB DDR3-RAM
Internal mass memory	32 GB SSD mSATA	32 GB SSD mSATA	32 GB SSD mSATA
Removable memory	1 x CFast slot, pre-populated with 4 GB CFast memory card	1 x CFast slot, pre-populated with 4 GB CFast memory card	1 x CFast slot, pre-populated with 4 GB CFast memory card
Interfaces	2 x Ethernet 10/100/1000 Mbps; 2 x USB 3.0; 1 x RS-232; 1 x RS-485; 1 x DVI-I	2 x Ethernet 10/100/1000 Mbps; 2 x USB 3.0; 1 x RS-232; 1 x RS-485; 1 x DVI-I	2 x Ethernet 10/100/1000 Mbps; 2 x USB 3.0; 1 x RS-232; 1 x RS-485; 1 x DVI-I
Power supply	24 Vdc	24 Vdc	24 Vdc
Maximum current	1.2 A	1.5 A	1.7 A
Operating system	Windows Embedded Standard 7	Windows Embedded Standard 7	Windows Embedded Standard 7
Environment			
Agency certifications	UL/cUL Class I Div 2, Groups A, B, C, D, ATEX Zone 22	UL/cUL Class I Div 2, Groups A, B, C, D, ATEX Zone 22	UL/cUL Class I Div 2, Groups A, B, C, D, ATEX Zone 22
Degree of protection	Front: IP65, NEMA 4X (indoor), NEMA 12; Rear: IP20	Front: IP65, NEMA 4X (indoor), NEMA 12; Rear: IP20	Front: IP65, NEMA 4X (indoor), NEMA 12; Rear: IP20
Operating temperature	0 to +50 °C	0 to +50 °C	0 to +50 °C
Storage temperature	-20 to +60 °C	-20 to +60 °C	-20 to +60 °C
Relative air humidity	10 to 20% noncondensing	10 to 20% noncondensing	10 to 20% noncondensing
Shock	IEC 60068-2-27 15 g for 11 ms duration	IEC 60068-2-27 15 g for 11 ms duration	IEC 60068-2-27 15 g for 11 ms duration
Vibration	IEC 60068-2-6 5–9 Hz: 3.5 mm displacement 9–60 Hz: 0.15 mm displacement 60–150 Hz: 2 g acceleration	IEC 60068-2-6 5–9 Hz: 3.5 mm displacement 9–60 Hz: 0.15 mm displacement 60–150 Hz: 2 g acceleration	IEC 60068-2-6 5–9 Hz: 3.5 mm displacement 9–60 Hz: 0.15 mm displacement 60–150 Hz: 2 g acceleration
Software			
Development software	Visual Designer	Visual Designer	Visual Designer
Ability to run third-party software	Yes	Yes	Yes
Pre-licensed tags, drivers, Web sessions			
Standard models	4000 tags, 5 drivers, 1 Web session	4000 tags, 5 drivers, 1 Web session	4000 tags, 5 drivers, 1 Web session
Field upgradable max. tags, drivers, Web sessions	64,000 tags, 8 drivers, 1, 2, 4, 8, 16, 32, 64 or 128 Web sessions simultaneously	64,000 tags, 8 drivers, 1, 2, 4, 8, 16, 32, 64 or 128 Web sessions simultaneously	64,000 tags, 8 drivers, 1, 2, 4, 8, 16, 32, 64 or 128 Web sessions simultaneously