

## XP Operator Interface



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## XP with Visual Designer

## Product Description

The XP models were designed for performance. This series is perfect for OEMs who require extensive connectivity, the advanced features available in Visual Designer, have large or high speed applications, or need an open platform for running third-party software. The unique infrared touchscreen with scratch resistant safety glass is ideal for harsh environments where traditional touchscreens are easily damaged. The two externally accessible solid state CompactFlash® drives provide both easy access and reliability. Protect Mode, available only on Eaton's XP embedded operator interface products, protects the operating system from unwanted changes providing improved up-time and reliability.

## Features

XP Series operator interface with Windows XP Embedded operating system

- 8.4-, 10.4-, 12.1- and 15.0-inch screen sizes as well as blind node
- Infrared touch screen, safety glass and metal housing for demanding environments
- Multiple Ethernet, serial, and USB ports on all models
- All solid-state media increases reliability
- Open architecture compatible with third-party software and hardware
- Non-corruptible OS with Protect Mode® increases security and minimizes emergency and preventative maintenance downtime
- Visual Designer XP development software
- Pre-installed Visual Designer runtime and Web serving licenses

## Standards and Certifications

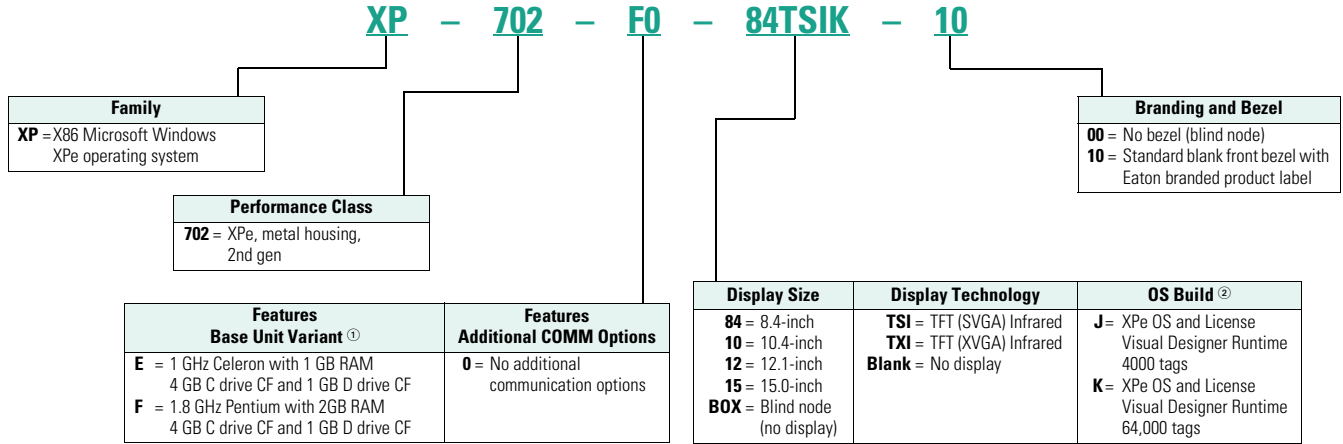
- CE
- UL
- cUL
- RoHS



## Catalog Number Selection

## XP Operator Interface

## XP



## Product Selection

## Series Information

All XP models have a Microsoft Windows XP embedded operating system and are pre-licensed with Visual Designer runtime. The standard models are licensed for 4000 tags, 5 simultaneous communication drivers and 1 Web session. The enterprise models are licensed for 64,000 tags, 8 simultaneous communication drivers and 1 Web session. Field upgrades are available for up to 64,000 tags, 8 drivers, and 2, 4, 8, 16, 32, 64, 128 or 256 simultaneous Web sessions.

## XP Operator Interface



## XP Operator Interface

## Description

## Catalog Number

XP 8.4-inch TFT, 1 GHz Celeron, 1 GB RAM, 4 GB C drive, 1 GB D drive, 4000 tags, 5 drivers, 1 Web session	<b>XP-702-E0-84TSIJ-10</b>
XP 10.4-inch TFT, 1 GHz Celeron, 1 GB RAM, 4 GB C drive, 1 GB D drive, 4000 tags, 5 drivers, 1 Web session	<b>XP-702-E0-10TSIJ-10</b>
XP 12.1-inch TFT, 1 GHz Celeron, 1 GB RAM, 4 GB C drive, 1 GB D drive, 4000 tags, 5 drivers, 1 Web session	<b>XP-702-E0-12TSIJ-10</b>
XP 15.0-inch TFT, 1 GHz Celeron, 1 GB RAM, 4 GB C drive, 1 GB D drive, 4000 tags, 5 drivers, 1 Web session	<b>XP-702-E0-15TSIJ-10</b>
XP blind node (no display), 1 GHz Celeron, 1 GB RAM, 4 GB C drive, 1 GB D drive, 4000 tags, 5 drivers, 1 Web session	<b>XP-702-E0-BOXJ-00</b>
XP 8.4-inch TFT, 1.8 GHz Pentium, 2 GB RAM, 4 GB C drive, 1 GB D drive, 64k tags, 8 drivers, 1 Web session	<b>XP-702-F0-84TSIK-10</b>
XP 10.4-inch TFT, 1.8 GHz Pentium, 2 GB RAM, 4 GB C drive, 1 GB D drive, 64k tags, 8 drivers, 1 Web session	<b>XP-702-F0-10TSIK-10</b>
XP 12.1-inch TFT, 1.8 GHz Pentium, 2 GB RAM, 4 GB C drive, 1 GB D drive, 64k tags, 8 drivers, 1 Web session	<b>XP-702-F0-12TSIK-10</b>
XP 15.0-inch TFT, 1.8 GHz Pentium, 2 GB RAM, 4 GB C drive, 1 GB D drive, 64k tags, 8 drivers, 1 Web session	<b>XP-702-F0-15TSIK-10</b>
XP blind node (no display), 1.8 GHz Pentium, 2 GB RAM, 4 GB C drive, 1 GB D drive, 64k tags, 8 drivers, 1 Web session	<b>XP-702-F0-BOXK-00</b>

## Notes

- ① All 7xx Performance Class units have 1 x 10/100, 1 x 10/100/1000 Ethernet, 4 x USB Host V2.0, 2 x RS-232.  
 ② Standard software on embedded hardware.

## Accessories

### XP Operator Interface

Description	Catalog Number
Hard drive, 80 GB minimum for all XP models for application or data storage	<b>HDU-A7-S XP700</b>
Industrial grade hard drive, 80 GB minimum for all XP models for application or data storage	<b>HDU-A7-SI XP700</b>
XP700 externally mounted fan for all XP models (included with 1.8 GHz Enterprise models)	<b>ACC-FAN-700-S</b>
CompactFlash memory card, minimum 4 GB	<b>MEMORY-CF-A8-S</b>
XP-702 spare part kit for all XP models—1 power connector, 8 mounting brackets, 1 sealing strip	<b>ACC-TP-57-RES-1</b>

## Technical Data and Specifications

### XP Operator Interface

Series	XP Performance Operator Interface				
Model	XP-702				
Screen Size	8.4-Inch	10.4-Inch	12.1-Inch	15.0-Inch	Blind Node (no display)
Operating system	Windows XPe	Windows XPe	Windows XPe	Windows XPe	Windows XPe
Touchscreen technology	Infrared, non-reflective safety glass				N/A
Display, colors	Color TFT, selectable 16 million, 64k, or 256 colors				VGA and DVI-D output
Pixel resolution (landscape)—Portrait mode also available	SVGA 800 x 600	SVGA 800 x 600	XGA 1024 x 768	XGA 1024 x 768	800 x 600 to 1920 x 1200
Brightness (cd/m <sup>2</sup> )	400	400	400	400	N/A
Backlight	2 CCFL	2 CCFL	2 CCFL	4 CCFL	N/A
Lifespan of backlight (half-life)	50,000 hrs	50,000 hrs	50,000 hrs	50,000 hrs	N/A
Processor					
Standard models	1 GHz Celeron M	1 GHz Celeron M	1 GHz Celeron M	1 GHz Celeron M	1 GHz Celeron M
Enterprise models	1.8 GHz Pentium M	1.8 GHz Pentium M	1.8 GHz Pentium M	1.8 GHz Pentium M	1.8 GHz Pentium M
Volatile memory					
Standard models	1 GB	1 GB	1 GB	1 GB	1 GB
Enterprise models	2 GB	2 GB	2 GB	2 GB	2 GB
Non-volatile memory					
Standard models <sup>①</sup>	4 GB min C drive (OS), 1 GB min D drive				
Enterprise models <sup>①</sup>	4 GB min C drive (OS), 1 GB min D drive				
Real time clock	Yes	Yes	Yes	Yes	Yes
Communication ports	Ethernet 1 x 10/100 and 1 x 10/100/1000; 2 x RS-232; 4 x USB 2.0 Host				
Slots for COMM modules	1 x PCI 32-bit	1 x PCI 32-bit	1 x PCI 32-bit	1 x PCI 32-bit	1 x PCI 32-bit
Power supply rated voltage	24 Vdc nominal (–15%/+20%) with polarity protection				

#### Note

<sup>①</sup> All are removable CompactFlash.

## XP Operator Interface, continued

Series	XP Performance Operator Interface				
Model	XP-702				
Screen Size	8.4-Inch	10.4-Inch	12.1-Inch	15.0-Inch	Blind Node (no display)
Continuous current consumption (maximum amps)					
Standard models	2.0	2.0	2.1	2.1	1.4
Enterprise models	3.1	3.1	3.2	3.2	2.8
Starting Current Inrush (A <sup>2</sup> s)	2.0	2.0	2.0	2.0	2.0
Ambient conditions					
Operation—relative humidity, noncondensing	0 to 50°C, 10 to 95%	0 to 50°C, 10 to 95%	0 to 50°C, 10 to 95%	0 to 50°C, 10 to 95%	0 to 50°C, 10 to 95%
Storage/transport—relative humidity, noncondensing	–20° to 60°C, 10 to 95%	–20° to 60°C, 10 to 95%	–20° to 60°C, 10 to 95%	–20° to 60°C, 10 to 95%	–20° to 60°C, 10 to 95%
Shock	IEC 60068-2-27 15g for 11 ms duration				
Vibration	IEC 60068-2-6	IEC 60068-2-6	IEC 60068-2-6	IEC 60068-2-6	IEC 60068-2-6
5–9 Hz	3.5 mm displacement	3.5 mm displacement	3.5 mm displacement	3.5 mm displacement	3.5 mm displacement
9–60 Hz	0.15 mm displacement	0.15 mm displacement	0.15 mm displacement	0.15 mm displacement	0.15 mm displacement
60–150 Hz	1g acceleration	1g acceleration	1g acceleration	1g acceleration	1g acceleration
Agency certifications and standards	CE, UL/cUL, CSA (pending), RoHS				
Protection type					
Front	IP65, NEMA 4X (indoor)	IP65, NEMA 4X (indoor)	IP65, NEMA 4X (indoor)	IP65, NEMA 4X (indoor)	IP20, NEMA 1
Rear	IP20, NEMA 1	IP20, NEMA 1	IP20, NEMA 1	IP20, NEMA 1	IP20, NEMA 1
Housing material	Metal	Metal	Metal	Metal	Metal
Dimensions W x H x D (mm)	275 x 208 x 102/140	345 x 260 x 91/129	361 x 279 x 98/136	427 x 322 x 101/139	264 x 194 x 58/96
Mounting cutout W x H (mm)	261 x 194	329 x 238	344 x 262	410 x 315	N/A
Approximate weight lbs (kg)	6.4/7.3 (3.2/3.6)	8.3/9.1 (4.1/4.5)	9.5/10.3 (4.7/5.1)	12.8/13.6 (6.3/6.7)	3.9/4.7 (1.9/2.3)
Development software	Visual Designer (VISUALDXP)	Visual Designer (VISUALDXP)	Visual Designer (VISUALDXP)	Visual Designer (VISUALDXP)	Visual Designer (VISUALDXP)
Ability to run third-party software	Yes	Yes	Yes	Yes	Yes
Pre-licensed tags, drivers, Web sessions					
Standard models	4000 tags, 5 drivers, 1 Web session				
Enterprise models	64,000 tags, 8 drivers, 1 Web session				
Field upgradeable max. tags, drivers, Web sessions	64,000 tags, 8 drivers, 1, 2, 4, 8, 16, 32, 64, 128, or 256 Web sessions simultaneously				