



iPPC-x701-WES7/iPPC-x801-WES7

10.4"/12.1"/15"/17" Panel PC with
Atom E3827/E3845 CPU and WES7

Features

- 10.4", 12.1", 15" and 17" TFT LCD with Touch Panel
- Windows Embedded Standard 7 SP1
- Intel® Atom™ E3827 1.75 GHz/E3845 1.91 GHz
- 2/4 GB DDR3 SDRAM, 32 GB SSD
- 64-bit Hardware Serial Number for Software Protection
- Rich I/O Expansion Ability (RS-232/RS-485, FRnet)
- 2 10/100/1000M Ethernet Ports
- Redundant Power Inputs
- Operating Temperature: -25 ~ +75 °C



Introduction

The iPPC series is WES7 based Panel PC that combine computing, I/O, and operator interface into a single unit, and provide the perfect solution for integrating HMI, data acquisition and control in an individual iPPC.

It is equipped with an Intel Atom E3827 or E3845 CPU, TFT LCD and a variety of connectives including dual Gigabit Ethernet, USB port, RS-232 and RS-485 interface. The operating system is pre-installed in the built-in mSATA SSD, and the storage can be expanded from a Compact Flash slot. Remote I/O expansion is available to use our Ethernet I/O modules and RS-485 I/O modules. Designed for panel mount installation, the front panel is NEMA 4/IP65 rated and can withstand sprayed water, humidity and extreme dust.

Designed to operate over a wide -20°C ~ 60°C ambient temperature range, the fanless design offers the ultimate in reliability with no moving parts.

Since WES7 has the same Win32 API as Windows 7, most popular applications on desktop can run on WES7 based Panel PC.

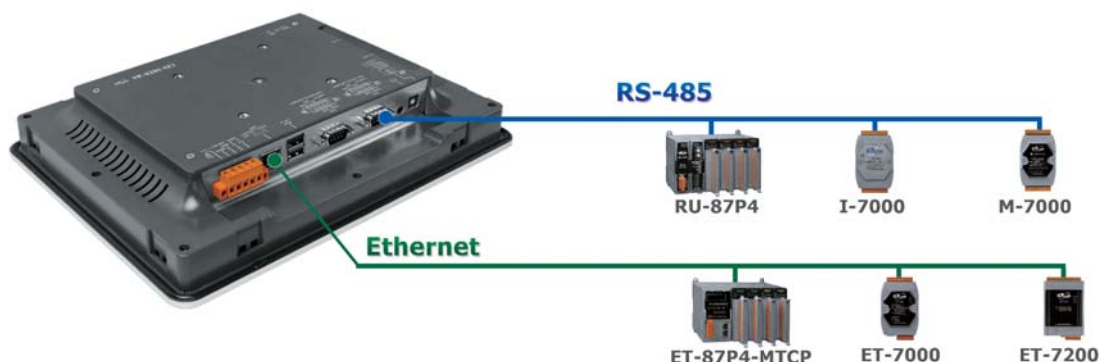
Windows Embedded Standard 7.0



WES7 has the same Win32 API as Windows 7. Most popular applications on desktop can be run on WES7. It's also compatible with rich Windows IDEs, such as Visual studio, Delphi, Borland C++ Builder, etc.

- Full Win32 API
- Remote Desktop Protocol 5.1
- Silverlight 5
- Enhanced Write Filter
- .NET Framework 3.5 SP1, 4.0, 4.5

Applications



Specifications

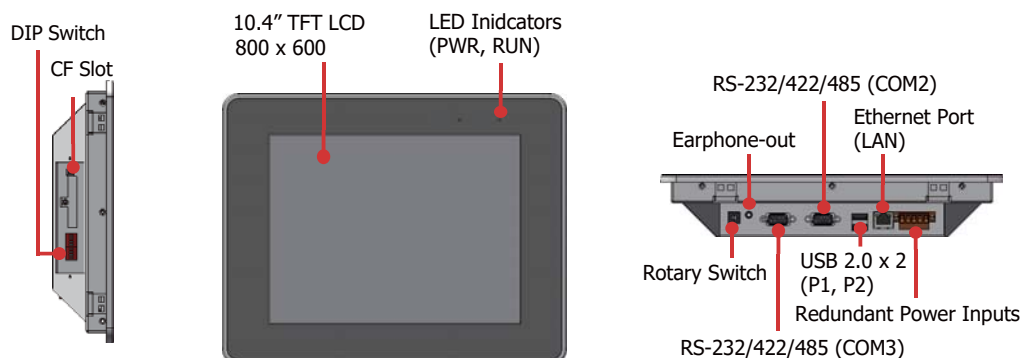
Models	iPPC-4701-WES7	iPPC-4701-WES7	iPPC-4701-WES7	iPPC-7701-WES7
Display				
Size	10.4" (4:3)	12.1" (4:3)	15" (4:3)	17" (4:3)
Resolution	800 x 600		1024 x 768	1280 x 1024
Brightness	400 cd/m2			350 cd/m2
Contrast Ratio	500:1	700:1		
Backlight Life	50,000 hours			
Touch Panel	5-wire, resistive type; light transmission: 80 %			
System Software				
OS	Windows Embedded Standard 7 SP1			
Framework Support	.Net Framework 3.5, 4.0, 4.5			
Service	IE11, FTP Server, IIS 7.0, ASP (Java Script, VB Script)			
SDK	DII for VC, DII for Visual Studio.Net			
Multilanguage Support	English, German, French, Spanish, Portuguese, Russian, Italian, Korean, Simplified Chinese, Traditional Chinese			
CPU Module				
CPU	E3827, 1.75 GHz, 64-bit dual core			
SDRAM	2 GB DDR3			
MRAM	128 KB			
Flash	256 MB			
EEPROM	16 KB			
Storage	32 GB SSD, 16 GB CF card			
RTC (Real Time Clock)	Provide seconds, minutes, hours, day of week/month, month and year			
64-bit Hardware Serial Number	Yes			
Watchdog Timer	Dual Watchdog Timer			
Rotary Switch	1 x 10 Position (0 ~ 9)			
LED Indicator	2 (Run, PWR)	4 (Run, PWR, L1, L2; L1 and L2 for user programmable)		
Audio	Earphone-out	Microphone-in and Earphone-out		
Communication Interface				
Ethernet	1 x RJ-45 10/100/1000 Base-TX		2 x RJ-45 10/100/1000 Base-TX	
USB 2.0	2		4	
COM2	RS-232/RS-422/RS-485			
COM3	RS-232/RS-422/RS-485			
Mechanical				
Dimensions (W x L x H, unit: mm)	291 x 229 x 53	323 x 254 x 63	381 x 305 x 63	413 x 359 x 69
Panel Cut-Out (W x H, unit: mm)	274 x 211, +/- 1	308 x 239, +/- 1	364 x 288, +/- 1	394 x 340, +/- 1
Installation	Panel Mounting			
Ingress Protection	Front panel: NEMA 4/IP65			
Environmental				
Operating Temperature	-20 °C ~ +60 °C			
Storage Temperature	-20 °C ~ +70 °C			
Humidity	10 ~ 90 % RH, Non-condensing			
Power				
Input Range	+10 ~ 30 VDC (1500 VDC Isolated)			
Redundant Power Inputs	Yes			
Consumption	22.0 W	27.0 W	29.0 W	36.0 W

Specifications

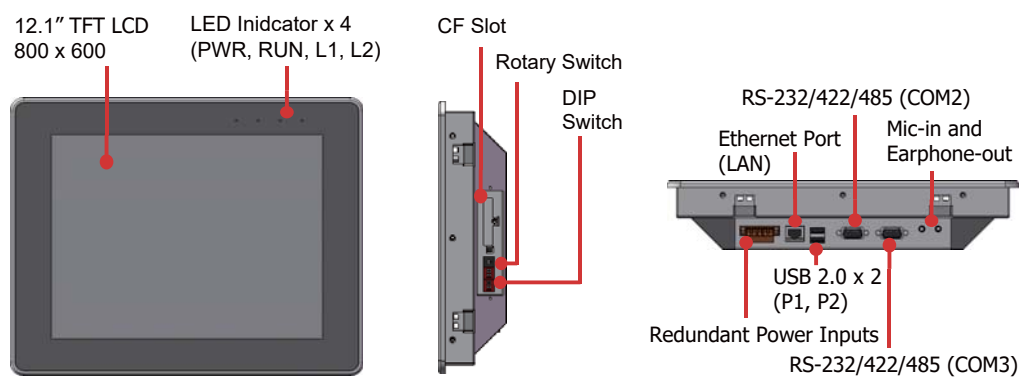
Models	iPPC-4801-WES7	iPPC-4801-WES7	iPPC-4801-WES7	iPPC-7801-WES7
Display				
Size	10.4" (4:3)	12.1" (4:3)	15" (4:3)	17" (4:3)
Resolution	800 x 600		1024 x 768	1280 x 1024
Brightness	400 cd/m2			350 cd/m2
Contrast Ratio	500:1	700:1		
Backlight Life	50,000 hours			
Touch Panel	5-wire, resistive type; light transmission: 80 %			
System Software				
OS	Windows Embedded Standard 7 SP1			
Framework Support	.Net Framework 3.5, 4.0, 4.5			
Service	IE11, FTP Server, IIS 7.0, ASP (Java Script, VB Script)			
SDK	Dll for VC, Dll for Visual Studio.Net			
Multilanguage Support	English, German, French, Spanish, Portuguese, Russian, Italian, Korean, Simplified Chinese, Traditional Chinese			
CPU Module				
CPU	E3845, 1.91 GHz, 64-bit quad core			
SDRAM	4 GB DDR3			
MRAM	128 KB			
Flash	256 MB			
EEPROM	16 KB			
Storage	32 GB SSD, 16 GB CF card			
RTC (Real Time Clock)	Provide seconds, minutes, hours, day of week/month, month and year			
64-bit Hardware Serial Number	Yes			
Watchdog Timer	Dual Watchdog Timer			
Rotary Switch	1 x 10 Position (0 ~ 9)			
LED Indicator	2 (Run, PWR)	4 (Run, PWR, L1, L2; L1 and L2 for user programmable)		
Audio	Earphone-out	Microphone-in and Earphone-out		
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Redundant Power Inputs	Yes			
Consumption	22.0 W	27.0 W	29.0 W	36.0 W

Appearance

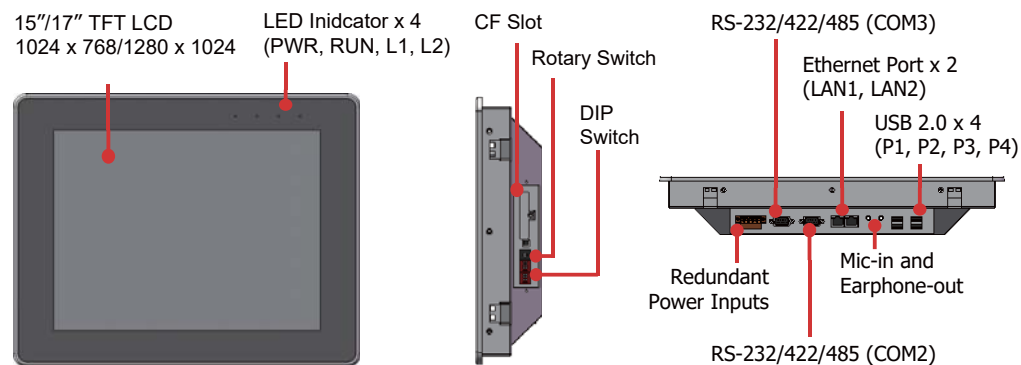
iPPC-4701-WES7/iPPC-4801-WES7



iPPC-5701-WES7/iPPC-5801-WES7

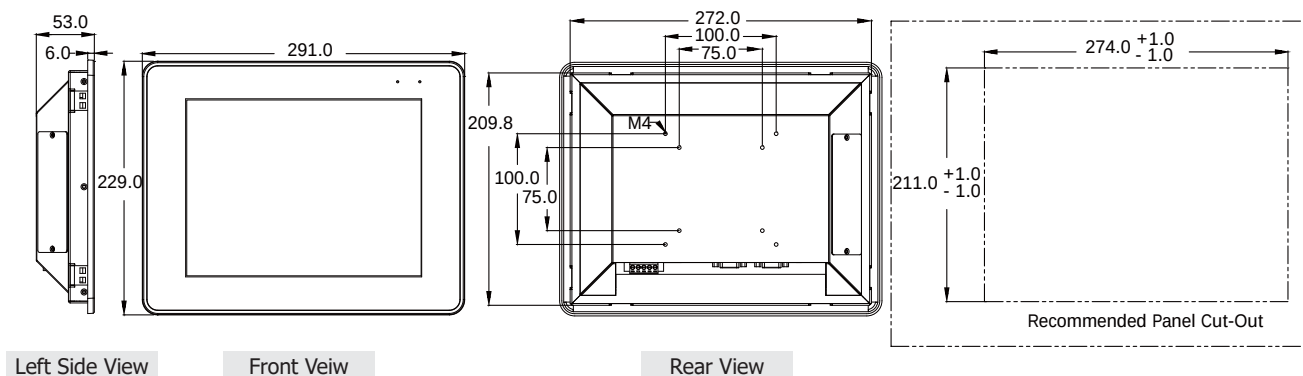


iPPC-6701-WES7/iPPC-7701-WES7/iPPC-6801-WES7/iPPC-7801-WES7



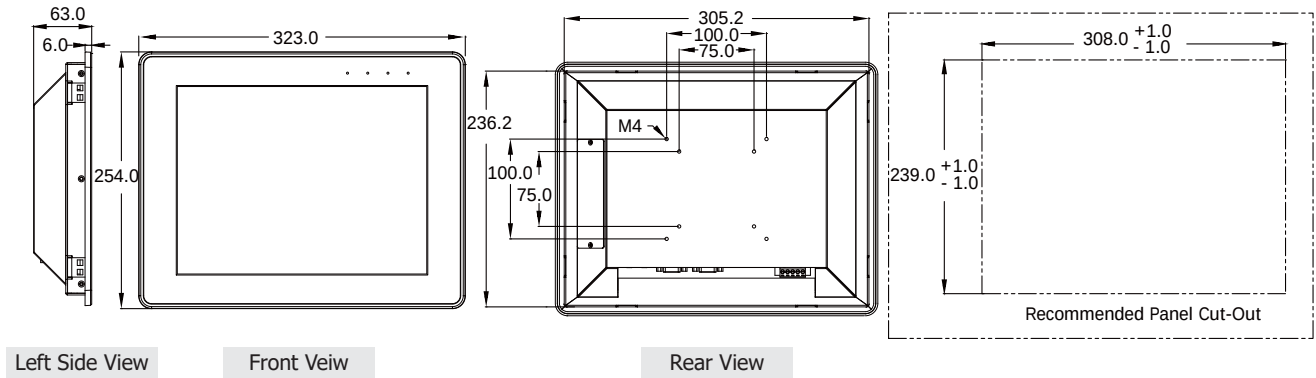
Dimensions (Units: mm)

iPPC-4701-WES7/iPPC-4801-WES7

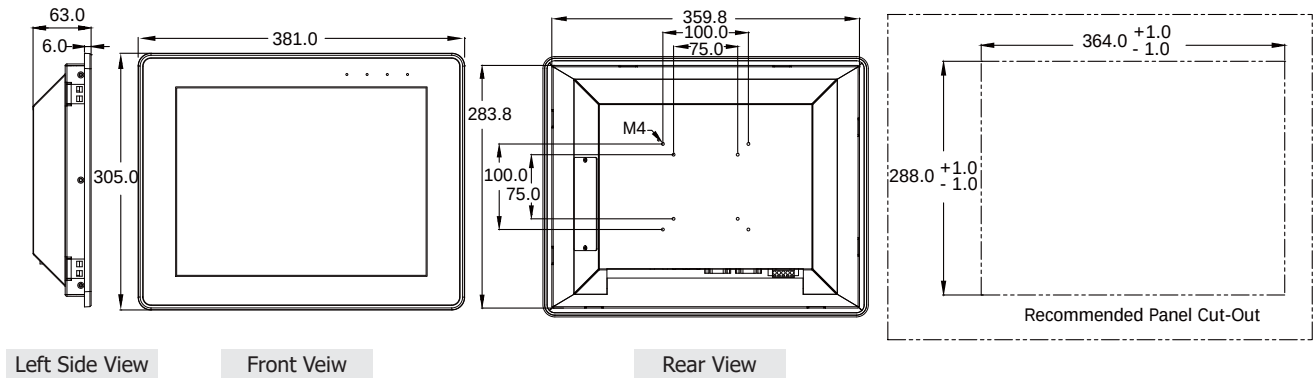


■ Dimensions (Units: mm)

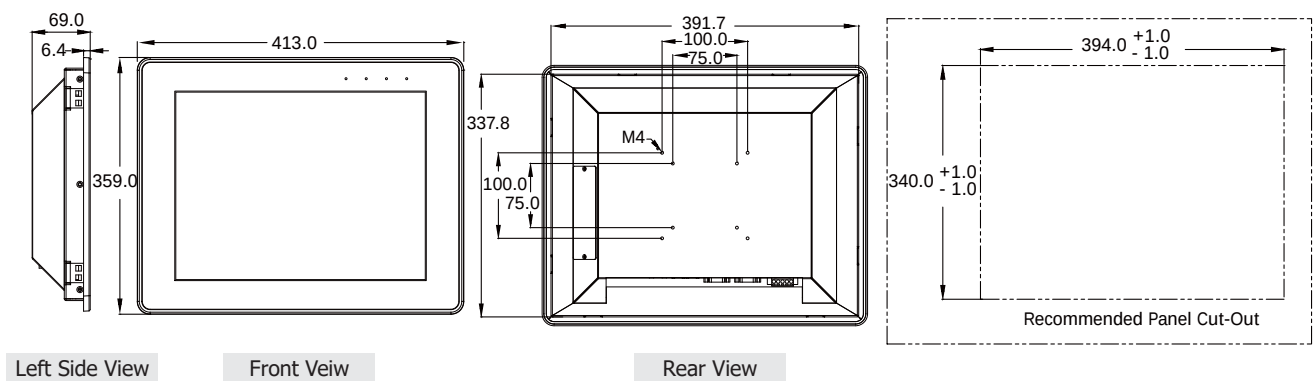
iPPC-5701-WES7/iPPC-5801-WES7



iPPC-6701-WES7/iPPC-6801-WES7



iPPC-7701-WES7/iPPC-7801-WES7



■ Ordering Information

iPPC-4701-WES7 CR	10.4" Panel PC with Atom E3827 CPU and WES7 (RoHS)
iPPC-5701-WES7 CR	12.1" Panel PC with Atom E3827 CPU and WES7 (RoHS)
iPPC-6701-WES7 CR	15" Panel PC with Atom E3827 CPU and WES7 (RoHS)
iPPC-7701-WES7 CR	17" Panel PC with Atom E3827 CPU and WES7 (RoHS)
iPPC-4801-WES7 CR	10.4" Panel PC with Atom E3845 CPU and WES7 (RoHS)
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iPPC-7801-WES7 CR	17" Panel PC with Atom E3845 CPU and WES7 (RoHS)