



iPPC-6731-WES7/iPPC-6831-WES7

15" Panel PC with Atom E3827/E3845 CPU, WES7,
and 3 I/O Slots

Features

- 15" 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
- 3 I/O Expansion Slots
- 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-6731-WES7/iPPC-6831-WES7 series product is WES7 based Panel PC that combine computing, I/O, and operator interface into a single unit, and provides a perfect solution for integrating HMI, data acquisition and control in an individual PAC. It is equipped with an Intel Atom E3827/E3845 CPU, three I/O expansion slots, 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 via a Compact Flash slot. The local I/O slots are available for using our I-8K or I-87K series I/O modules and remote I/O expansion is available for connecting to our Ethernet I/O modules or RS-485 I/O modules.

The iPPC-6731-WES7/iPPC-6831-WES7 is designed for panel mount installation, the front panel is NEMA 4/IP65 rated and can withstand sprayed water, humidity and extreme dust. It is also designed to operate over a wide -20°C to 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.

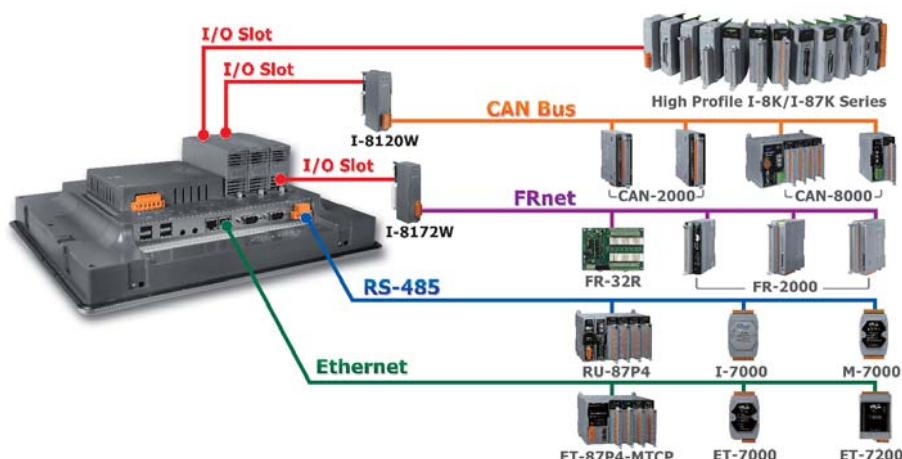
Windows Embedded Standard 7.0



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



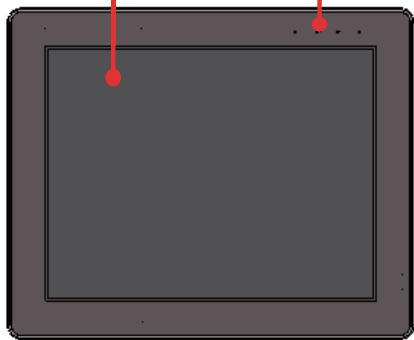
Specifications

Models	iPPC-6731-WES7	iPPC-6831-WES7
Display		
Size	15" (4:3)	
Resolution	1024 x 768	
Brightness	400 cd/m2	
Contrast Ratio	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	E3845, 1.91 GHz, 64-bit quad 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	4 (Run, PWR, L1, L2; L1 and L2 for user programmable)	
Audio	Microphone-in and Earphone-out	
Communication Interface		
Ethernet	2 x RJ-45 10/100/1000 Base-TX	
USB 2.0	3	
COM2	RS-232 (Rx/D, Tx/D, CTS, RTS, DSR, DTR, CD, RI, GND); Non-isolated	
COM3	RS-485 (Data+, Data-, GND); 2500 VDC isolated	
COM4	RS-232/RS-485 (Rx/D, Tx/D, CTS, RTS, GND for RS-232, Data+, Data- for RS-485); 2500 VDC isolated	
I/O Expansion		
I/O Type	I-8K, I-87K series	
Slots	3	
Mechanical		
Dimensions (W x L x H)	381 mm x 305 mm x 88 mm	
Panel Cut-Out (W x H)	366 mm x 290 mm, +/- 1 mm	
Weight	5 kg	
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 (1 kV Isolated)	
Redundant Power Inputs	Yes	
Consumption	25.0 W	

Appearance

15" TFT LCD
1024 x 768 (4 : 3)

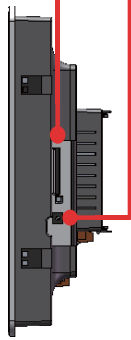
LED Indicator x 4
(PWR, RUN, L1, L2)



Front View

Rotary Switch

CF Slot



Right Side View

RS-232(COM2)

RS-232/RS-485 (COM4)

Ethernet Port x 2 (LAN1, LAN2)

USB 2.0 x 3 (P1, P2, P3)

I/O Slot x 3

RS-485 (COM3)

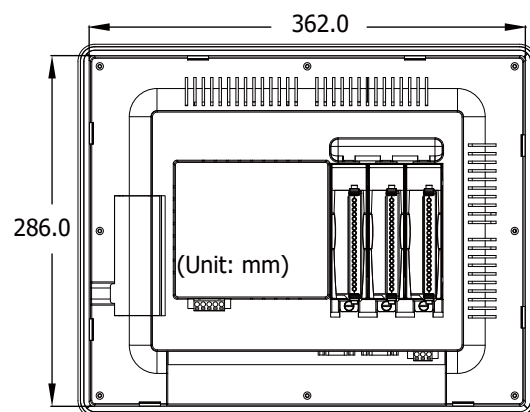
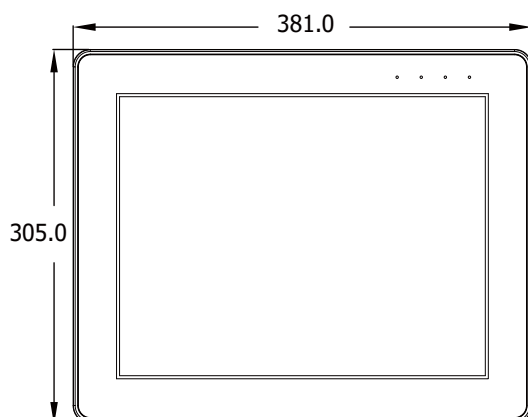
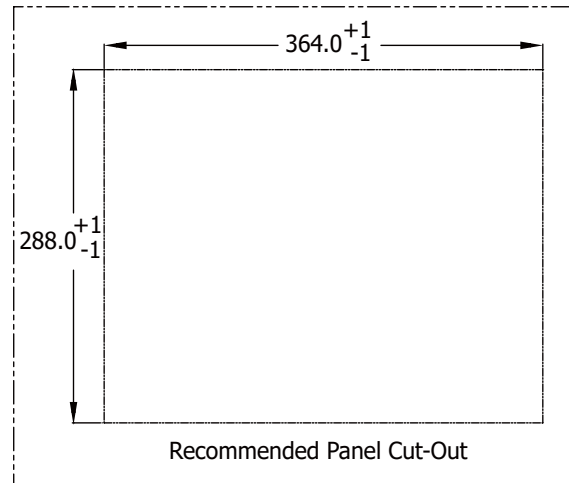
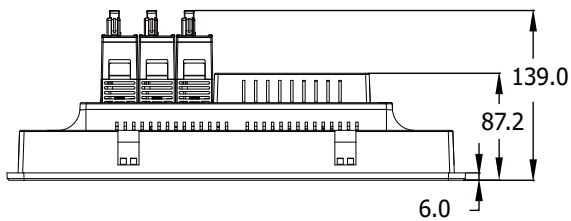
Redundant Power Inputs

Mic-in and Earphone-out



Bottom View

Dimensions (Units: mm)



Ordering Information

iPPC-6731-WES7 CR	15" Panel PC with Atom E3827 CPU, WES7, and 3 I/O Slots (RoHS)
iPPC-6831-WES7 CR	15" Panel PC with Atom E3845 CPU, WES7, and 3 I/O Slots (RoHS)