





iPPC-x801-IoT/iPPC-x901-IoT

10.4"/15" Panel PC with Atom E3845/E3950 CPU and Win10 IoT

Figure 5

- 10.4"and 15" TFT LCD with Touch Panel
- Windows 10 IoT Enterprise Inside
- Intel® Atom™ E3845 1.91 GHz / E3950 1.6 ~ 2.0 GHz
- Rich software support
- Various Memory and Storage
 - ▶ 4 GB DDR3 SDRAM and 8 GB DDR4
 - ► 16 KB EEPROM and 128 KB MRAM for data retention
 - ▶ 128 GB SSD
 - ▶ 32 GB CF Card
- Various Communication Interfaces
 - ► 1 x RJ-45, 10/100/1000BASE-T Ethernet Port
 - ▶ 2 x Serial Ports (RS-232/RS-422/RS-485)
 - ► 2 x USB 2.0 (host)
- 64-bit Hardware Serial Number for Software Protection
- Redundant Power Inputs









■ Introduction

The iPPC-IoT series is Windows 10 IoT Enterprise 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 E3845/E3950 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 \sim 60°C ambient temperature range, the fanless design offers the ultimate in reliability with no moving parts.

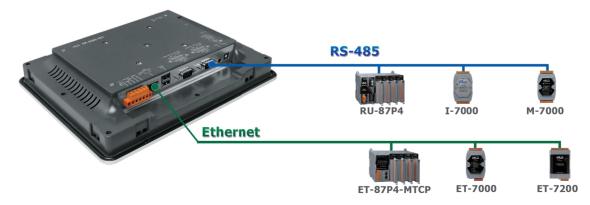
■ Windows 10 IoT



Windows 10 IoT is a member of the Windows 10 family that brings enterprise-class power, security, and manageability to the Internet of Things. It leverages Windows' embedded experience, ecosystem, and cloud connectivity, allowing organizations to create their Internet of Things with secure devices that can be quickly provisioned, easily managed, and seamlessly connected to an overall cloud strategy.

- Traditional Windows Shell with Advanced Lockdown Features• Remote Desktop Protocol 5.1
- Full Windows UI support (e.g. UWP, WinForms, etc)

Applications



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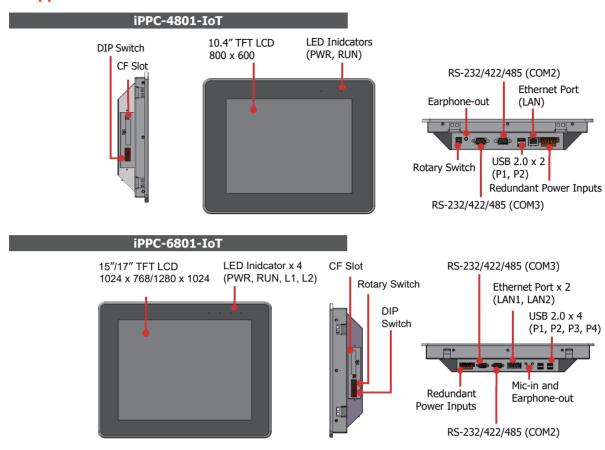
Specifications

Models	iPPC-4801-IoT	iPPC-4901-IoT	iPPC-6801-IoT	iPPC-6901-IoT	
Software					
OS		Windows 10 IoT	Enterprise Inside		
Framework Support	.Net Framework 3.5, 4.0, 4.5 ,4.8				
Multilanguage Support	English, German, French, Spanish, Portuguese, Russian, Italian, Korean, Simplified Chinese, Traditional Chinese				
SDK	DII for VC, DII for Visual Studio.Net				
Main Unit		· .			
CPU	E3845, 1.91 GHz, 64-bit quad core		core	E3950, 1.6~2.0 GHz, 64-bit quad core	
64-bit Hardware Serial Number	Yes			,	
System Memory	4 GB DDR3 SDRAM 8 GB DDR4				
Storage	128 GB SSD, 32 GB CF card				
Non-Volatile Memory	128 KB MRAM, 16 KB EEPROM				
Real Time Clock	Provide seconds, minutes, hours, dates, day of week, month, year				
Watchdog Timer	Dual Watchdog Timer				
Display					
Size	10.4" (4:3)		15"	(4:3)	
Resolution	800 x 600			1024 x 768	
Brightness		400 c	rd/m2		
Contrast Ratio	50	0:1	·	0:1	
Backlight Life	50,000 hours				
Touch Panel	5-wire, resistive type; light transmission: 80 %				
LED Indicators	5 Mile, resistive type, light dansinission, ou 70				
Status	1 x System	. 1 x Power	1 x System, 1 x Pow	er. 2 x Programmable	
COM Ports	1 x System, 1 x Power 1 x System, 1 x Power, 2 x Programmable				
Ports	2 x RS-232/RS-422/RS-485				
HMI		·	<u> </u>		
Buzzer		Yes			
Rotary Switch		1 x 10 Posit	tion (0 ~ 9)		
Audio	<u> </u>				
Jack	Earpho	one-out	Microphone-in a	nd Earphone-out	
Ethernet	<u> </u>		<u> </u>	<u> </u>	
Ports	1 x RJ-45 10/10	00/1000 Base-TX	2 x RJ-45 10/100/1000 Base-TX		
USB	1 x RJ-45 10/100/1000 Base-TX 2 x RJ-45 10/100/1000 Base-TX				
USB 2.0		2		4	
Power				<u>·</u>	
Input Range	110 20 VIDO (1500 VIDO T1 1 1)				
	+10 ~ 30 VDC (1500 VDC Isolated)				
Redundant Power Inputs Consumption	22	Yes 22.0 W 29.0 W		n W	
Mechanical		U VV	29.	.U VV	
		NA -	L-1		
Casing	Metal				
Dimensions (W x L x H)	291 x 229 x 53 mm			5 x 63 mm	
Panel Cut-Out (W x H)	274 x 211, ±1 mm			8, ±1 mm	
Installation	Panel Mounting, VESA Mounting (75 x 75, 100 x 100)				
Ingress Protection Rating	Front panel: NEMA 4/IP65				
Environmental					
Operating Temperature	-20 °C ~ +60 °C				
Storage Temperature	-20 °C ~ +70 °C				
Humidity	10 ~ 90 % RH, Non-condensing				

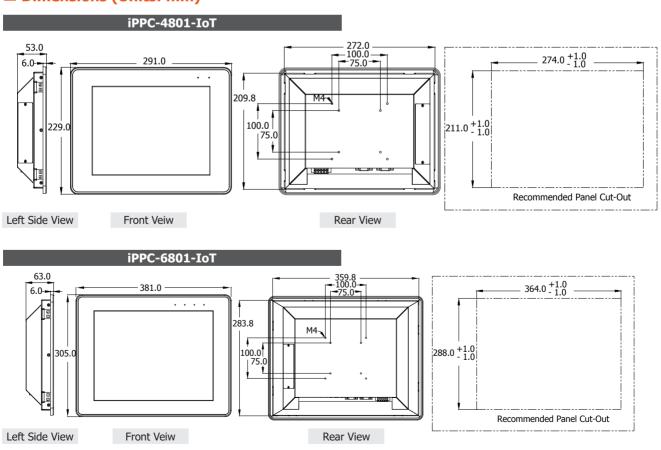
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Appearance



■ Dimensions (Units: mm)



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■ Ordering Information

iPPC-4801-IoT CR	10.4" Panel PC with Atom E3845 CPU and Win10 IoT (RoHS)		
iPPC-6801-IoT CR	15" Panel PC with Atom E3845 CPU and Win10 IoT (RoHS)		
iPPC-4901-IoT CR	R 10.4" Panel PC with Atom E3950 CPU and Win10 IoT (RoHS)		
iPPC-6901-IoT CR	15" Panel PC with Atom E3950 CPU and Win10 IoT (RoHS)		

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iPPC-6x31-IoT

15" Panel PC with Atom E3845/E3950 CPU, Win10 IoT, and 3 I/O Slots

Figure 5

- 15" LCD with Touch Panel
- Windows 10 IoT Enterprise Indise
- Intel® Atom™ E3845 1.91 GHz / E3950 1.6 ~ 2.0 GHz
- Rich software support
- Various Memory and Storage
 - ▶ 2/4 GB DDR3 SDRAM and 8 GB DDR4
 - ▶ 16 KB EEPROM and 128 KB MRAM for data retention
 - ► 64 GB SSD
 - ► 32 GB CF Card
- Various Communication Interfaces
 - ► 2 x RJ-45, 10/100/1000BASE-TX Ethernet Port
 - ▶ 3 x Serial Ports (RS-232/RS-485)
 - ► 3 x USB 2.0 (host)
- NEMA 4/IP65 Compliant Front Panel







■ Introduction

The iPPC-6x31-IoT series is Windows 10 IoT Enterprise 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 E3845/E3950 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.

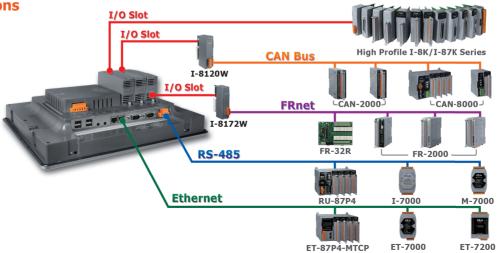
■ Windows 10 IoT



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- Traditional Windows Shell with Advanced Lockdown Features• Remote Desktop Protocol 5.1
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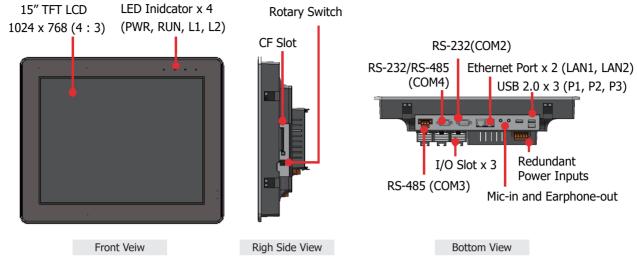
■ Specifications

Models	iPPC-6831-IoT	iPPC-6931-IoT			
Software					
OS	Windows 10 IoT Enterprise Inside				
Framework Support	.Net Framework 3.5, 4.0, 4.5, 4.8				
Multilanguage Support	English, German, French, Spanish, Portuguese, Russian, Italian, Korean, Simplified Chinese, Traditional Chinese				
SDK	Dll for VC, Dll for Visual Studio.Net				
Main Unit	,				
CPU	E3845, 1.91 GHz, 64-bit quad core	E3950, 1.6~2.0 GHz, 64-bit quad core			
64-bit Hardware Serial Number	Y	'es			
System Memory	4 GB DDR3 SDRAM	8 GB DDR4			
Storage	64 GB SSD, 32 GB CF Card				
Non-Volatile Memory	128 KB MRAM, 16 KB EEPROM				
Real Time Clock	Provide seconds, minutes, hours, dates, day of week, month, year				
Watchdog Timer	Dual Watchdog Timer				
Display					
Size	15" (4:3)				
Resolution	1024 x 768				
Brightness	400 cd/m2				
Contrast Ratio	700:1				
Backlight Life					
Touch Panel	50,000 hours 5-wire, resistive type; light transmission: 80 %				
LED Indicators	5 Wiley residute types	nghe dansmission oo 70			
Status	1 x System, 1 x Power, 2 x Programmable				
I/O Expansion	T x System, T x Tow	ver, 2 x r rogrammable			
I/O Type	I-8K, I-87K series				
Slots	1-6K, 1-6/K series				
COM Ports	3				
Ports	1 x RS-232, 1 x RS-485 (2500 VDC), 1 x RS-232/RS-485 (2500 VDC)				
HMI	1 / 10 202/ 1 / 10 100 (2000 12	2), 1 × 10 202, 10 (2000 12 0)			
Buzzer		Yes			
Rotary Switch	1 x 10 Position (0 ~ 9)				
Audio	1 X 10 1 03				
Jack	Microphone in and Environg suit				
Ethernet	Microphone-in and Earphone-out				
Ports	2 v D1 4E 10/100/1000 Page TV				
USB	2 x RJ-45, 10/100/1000 Base-TX				
USB 2.0					
	3				
Power Page	110 20 V/DC	2 (1 IA/ Taplatad)			
Input Range	+10 ~ 30 VDC (1 kV Isolated)				
Redundant Power Inputs		/es			
Consumption		.0 W			
Mechanical	1				
Casing	Plastic				
Dimensions (W x L x H)	381 x 305 x 88 (mm)				
Panel Cut-Out (W x H)	366 x 290, ±1 (mm)				
Installation	Panel Mounting				
Ingress Protection Rating	Front panel: NEMA 4/IP65				
Weight	5 kg	5.1 kg			
Environmental	T				
Operating Temperature	-20 °C ∼ +60 °C				
Storage Temperature	-20 °C ∼ +70 °C				
Humidity	10 ~ 90 % RH, Non-condensing				

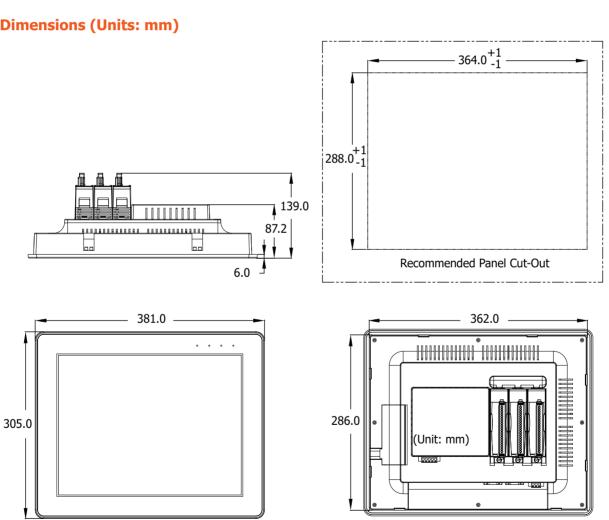
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Appearance



■ Dimensions (Units: mm)



■ Ordering Information

iPPC-6831-IoT CR	15" Panel PC with Atom E3845 CPU, Win10 IoT, and 3 I/O Slots (RoHS)
iPPC-6931-IoT CR 15" Panel PC with Atom E3950 CPU, Win10 IoT, and 3 I/O Slots (RoHS)	

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