



WP-9221-CE7/WP-9421-CE7/WP-9821-CE7

2/4/8-slot Metal Standard PAC with Cortex-A8 CPU and WinCE 7.0

Features

- Windows CE 7.0
- Cortex-A8, 1 GHz CPU
- 512 MB SDRAM and 256 MB Flash
- Hard Real-Time Capability
- 64-bit Hardware Serial Number for Software Protection
- Rich I/O Expansion Ability (RS-232/RS-485, FRnet)
- Redundant Power Input
- Operating Temperature: -25 ~ +75 °C



Introduction

The WP-9000-CE7 is the new generation Windows CE 7.0 based PAC (Programmable Automation Controller) of ICP DAS. Each WP-9000-CE7 is equipped with a Cortex-A8 (1.0 GHz) CPU running a Windows CE 7.0 operating system, a variant of input/output ports (VGA, USB, Ethernet, RS-232/485), and 2/4/8 expansion I/O slots that can be used to integrate high performance I-9K (parallel-type) and I-97K (serial-type) series I/O modules.

Its operating system, Windows CE 7.0, has many advantages, including hard real-time capability, small core size, fast boot speed, interrupt handling at a deeper level, achievable deterministic control and low cost. Using Windows CE 7.0 in the WP-9000-CE7 gives it the ability to run PC-based Control software such as Visual Basic.NET, Visual C#, Visual C++, SCADA software, Soft PLC ...etc.

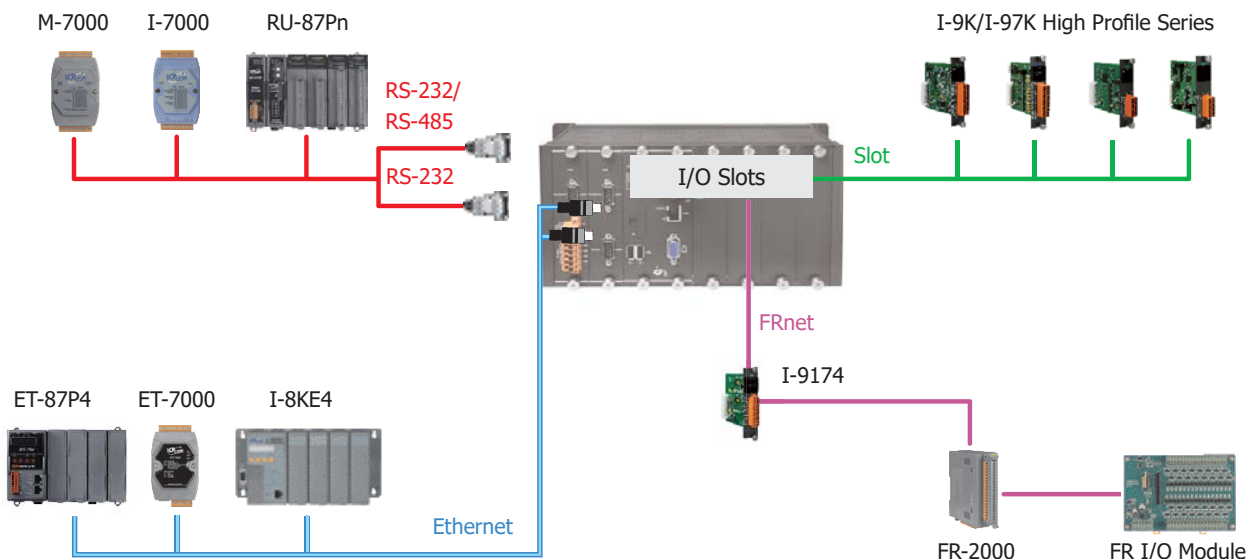
Windows CE 7.0



Windows CE 7.0 is a compact and real-time OS used to quickly create time critical and high performance applications. Using Windows CE 7.0 gives an ability to run PC-based control software such as Visual Basic .NET, Virtual C#.

- FTP Server
- Web Server
- SQL Compact Edition 3.5
- .NET Compact Framework 3.5
- Virtual CE Pro (VCEP)

Applications

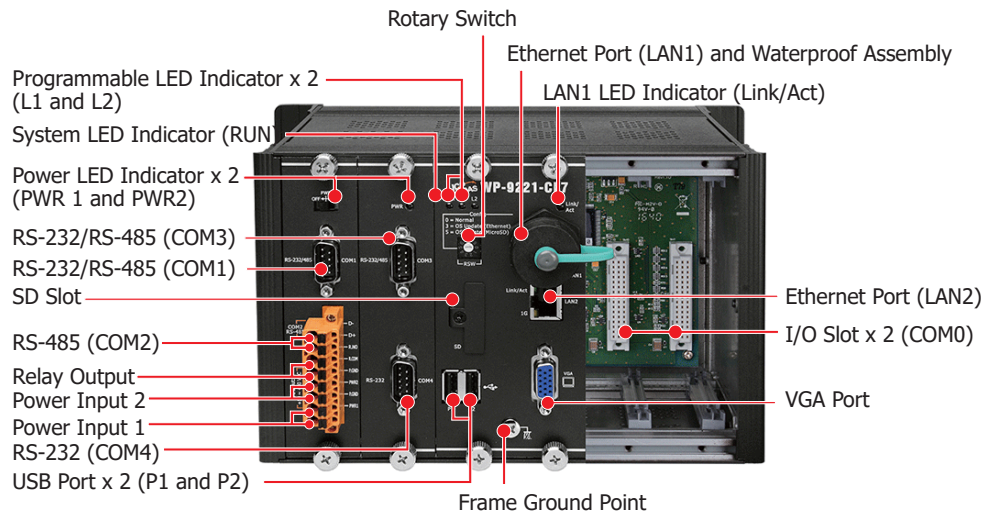


Specifications

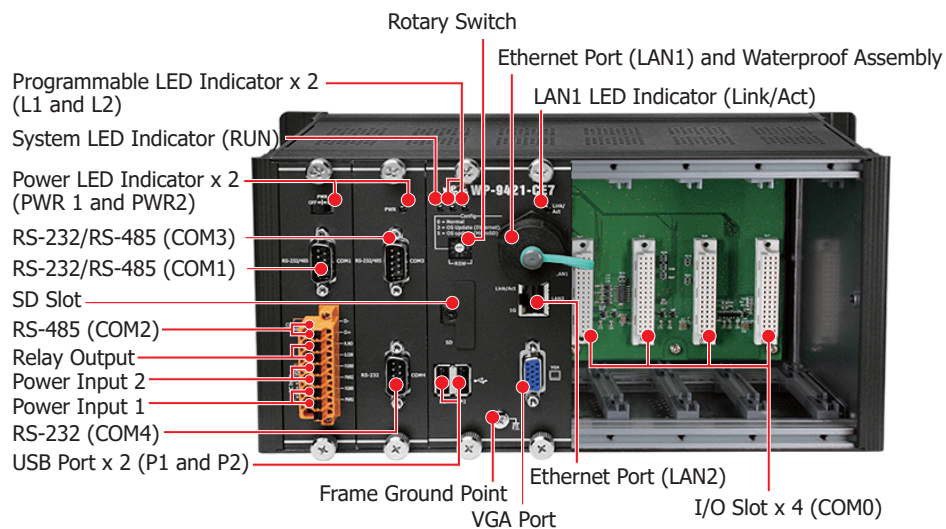
Model	WP-9221-CE7		WP-9421-CE7	WP-9821-CE7
Software				
OS	Windows CE 7.0			
Framework Support	.Net Compact Framework 3.5			
Service	FTP Server, Web Server (Supports VB script, JAVA script), Embedded SQL Server			
SDK	DII for VC, DII for Visual Studio.Net 2008			
Multilanguage Support	English, German, French, Spanish, Russian, Italian, Korean, Simplified Chinese, Traditional Chinese			
Main Unit				
CPU	Cortex-A8, 1.0 GHz			
SDRAM	512 MB DDR3			
MRAM	128 KB			
Flash	256 MB			
EEPROM	16 KB			
Storage	4 GB SD card (up to 32 GB)			
RTC (Real Time Clock)	Provide seconds, minutes, hours, dates, day of week, month, year			
64-bit Hardware Serial Number	Yes, for software copy protection			
Watchdog Timer	Dual Watchdog Timer			
Rotary Switch	1 x 10 Position (0 ~ 9)			
Buzzer	Yes			
Display				
VGA Resolution	800 × 600, 1024 × 768			
LED Indicators	1 x System, 2 x Power, 2 x Programmable			
Communication Interfaces				
Ethernet	2 x RJ-45, 10/100/1000 Base-TX (Auto-negotiating, Auto MDI/MDI-X, LED indicators)			
USB 2.0	2			
COM 0	Internal communication with the I-97K series modules in slots			
COM 1	RS-232/485 (RxD, TxD and GND for RS-232; Data+, Data- for RS-485); 3000 VDC isolated			
COM 2	RS-485 (Data+, Data-); 3000 VDC isolated			
COM 3	RS-232/485 (RxD, TxD, CTS, RTS and GND for RS-232; Data+, Data- for RS-485); 3000 VDC isolated			
COM 4	RS-232 (RxD, TxD, CTS, RTS, DSR, DTR, CD, RI and GND); 3000 VDC isolated			
I/O Expansion				
I/O Type	I-9K, I-97K series			
Slots	2	4	8	
Mechanical				
Dimension (W x L x H)	239 mm x 133 mm x 164 mm	300 mm x 133 mm x 164 mm	422 mm x 133 mm x 164 mm	
Ingress Protection Rating	IP30 (Aluminum)			
Weight	2235 g	2760 g	3455 g	
Installation	DIN-Rail, Wall mounting			
Environmental				
Operating Temperature	-25 ~ +75 °C			
Storage Temperature	-30 ~ +80 °C			
Humidity	10 ~ 90 % RH, Non-condensing			
Power				
Input Range	+10 ~ 30 VDC (1 kV Isolated)			
Redundant Power Inputs	Yes, with one power relay (1 A @ 24 VDC) for alarm			
Capacity	1.5 A, 5 V supply to CPU and backplane; 6.5 A, 5 V supply to I/O expansion slots, total 40 W			
Consumption	10.8 W (0.45 A @ 24 Vdc)			

Appearance

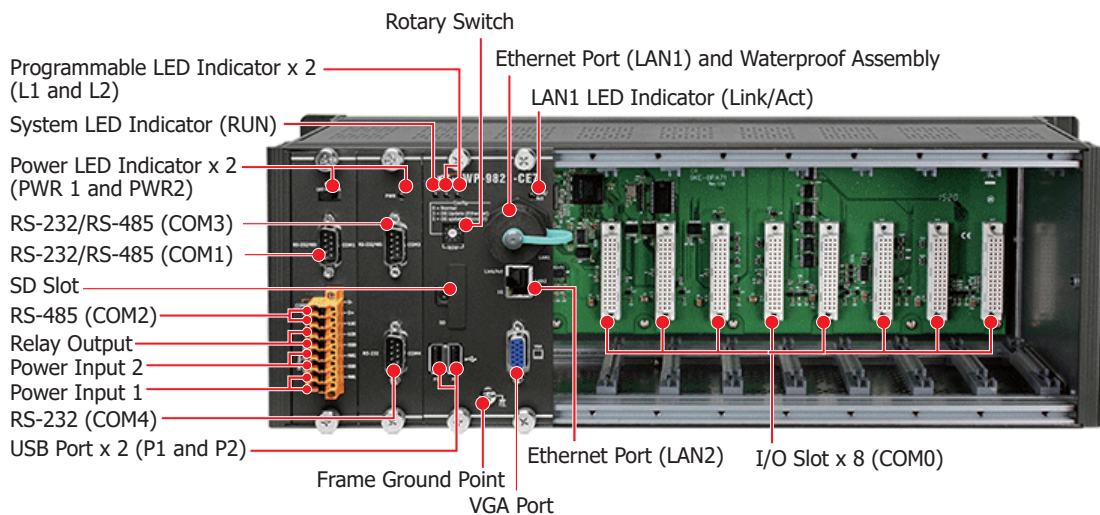
WP-9221-CE7



WP-9421-CE7

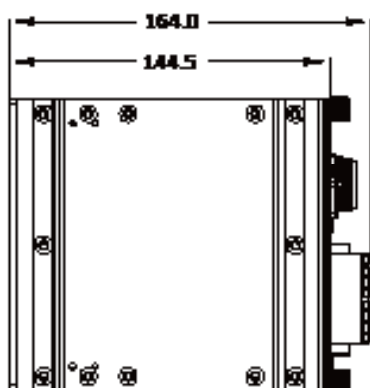


WP-9821-CE7



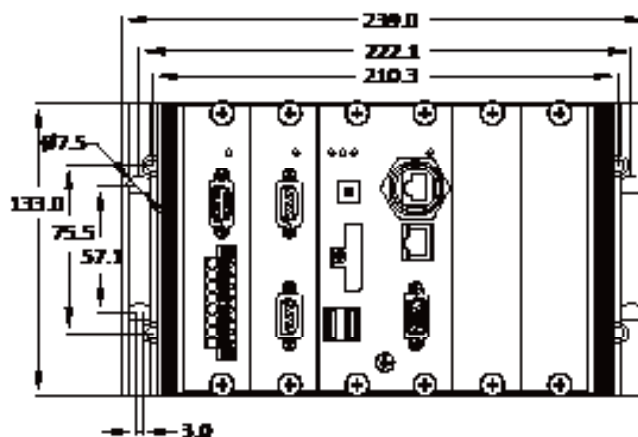
■ Dimensions (Units: mm)

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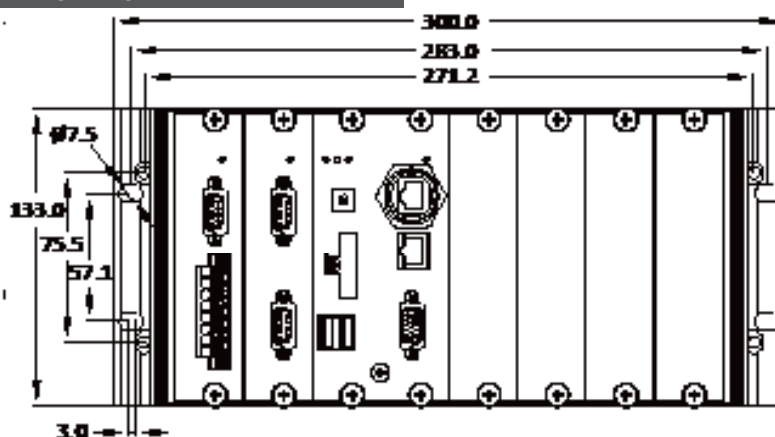
Left Side View

WP-9221-CE7



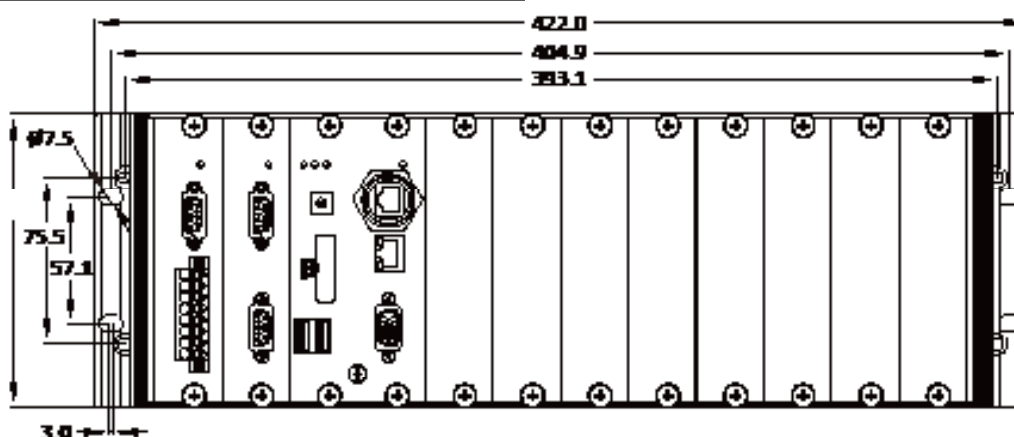
Front View

WP-9421-CE7



Front View

WP-9821-CE7



Front View

■ Ordering Information

WP-9221-CE7 CR	2-slot Metal Standard PAC with Cortex-A8 CPU and WinCE 7.0 (RoHS)
WP-9421-CE7 CR	4-slot Metal Standard PAC with Cortex-A8 CPU and WinCE 7.0 (RoHS)
WP-9821-CE7 CR	8-slot Metal Standard PAC with Cortex-A8 CPU and WinCE 7.0 (RoHS)