XP-8131-CE6   **XP-8331-CE6**

XP-8731-CE6

Features

- x86 CPU, 1 GHz, dual-core
- Windows CE 6.0
- Hard Real-Time Capability
- Rich I/O Expansion Ability (RS-232/RS-485, FRnet,CAN)
- VGA Port Output
- Support eLogger HMI
- Redundant Power Inputs
- Operating Temperature: -25 ~ +75°C

Introduction

XP-8x31-CE6 Series is the new generation Windows CE 6.0 based PACs of ICP DAS. It is equipped with a x86 CPU (1 GHz) dual-core, various connectivity (VGA, USB, Ethernet, RS-232/485) and 1/3/7 I/O slot(s) for high performance parallel I/O modules (high profile I-8K Series) and serial I/O modules (high profile I-87K series). The benefits of running Windows CE 6.0 on XP-8x31-CE6 include hard real-time capability, small core size, fast boot speed, interrupt handling at a deeper level and achievable deterministic control. XPAC is also capable of running PC-based control software such as Visual Basic .NET, Visual C#,.... etc. It has all of the best features of both traditional PLCs and Windows capable PCs.

For software copy protection, programmers can design software based on the 64-bit hardware serial number for making software copy protected.

Windows CE6

Windows CE 6 is a compact and real-time OS used to quickly create time critical and high performance applications. With Windows CE 6, users can use familiar tools (VS .NET 2005/2008) to develop software. Its kernel architecture supports significantly more simultaneously running processes, from 32 up to 32,000 simultaneous processes, each of which can run in a 2 GB virtual memory address space. This allows developers to incorporate larger numbers of more complex applications into the XP-8x31-CE6.
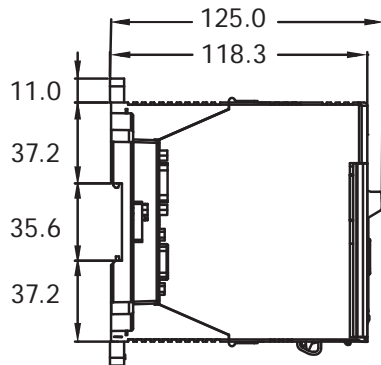
Microsoft **Windows CE.net**

- FTP Server
- Web Server
- SQL Compact Edition 3.5
- .NET Compact Framework 3.5

XP-8x31-CE6 Series

■ Specifications

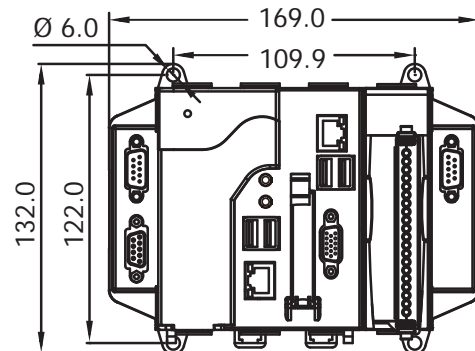| Models	XP-8131-CE6	XP-8331-CE6	XP-8731-CE6
System Software			
OS	Windows CE 6.0		
.Net Compact Framework	3.5		
Embedded Service	FTP Server, ASP (Java Script, VB Script), SQL Compact Edition 3.5		
SDK Provided	Dll for Visual Studio .Net 2005/2008		
Multilanguage Support	English, German, French, Spanish, Russian, Italian, Czech, Japanese, Korean, Simplified Chinese, Traditional Chinese		
CPU Module			
CPU	x86 CPU, 1 GHz, dual-core		
System Memory	2 GB DDR3		
Non-volatile Memory, MRAM	512 KB (retain memory without battery support)		
Flash	32 GB		
EEPROM	16 KB		
CF Card	8 GB (support up to 32 GB)		
RTC (Real Time Clock)	Provide second, minute, hour, date, day of week, month, year		
Programmable LED Indicator	2		
64-bit Hardware Serial Number	Yes, for Software Copy Protection		
Dual Watchdog Timers	Yes		
Rotary Switch	Yes (0 to 9)		
DIP Switch	Yes (8 bits)		
Audio	Microphone-In and Earphone-Out		
VGA & Communication Ports			
VGA	Yes, (resolution: 1024 x 768, 800 x 600 , 640 x 480)		
Ethernet (Giga bit)	RJ-45 x 2, 10/100/1000 Base-T (Auto-negotiating, Auto MDI/MDI-X, LED indicators)		
USB 2.0	4		
COM 1	Internal communication with the high profile I-87K series modules in slots		
COM 2	RS-232 (RxD, TxD and GND); non-isolated		
COM 3	RS-485 (Data+, Data-) with internal self-tuner ASIC; 3000 V_{DC} isolated		
COM 4	RS-232/RS-485 (RxD, TxD, CTS, RTS and GND for RS-232, Data+ and Data- for RS-485); non-isolated		
COM 5	RS-232 (RxD, TxD, CTS, RTS, DSR, DTR, CD, RI and GND); non-isolated		
I/O Expansion Slots			
Slot Number	1	3	7
Mechanical			
Dimensions (W x L x H)	169 mm x 132 mm x 125 mm	231 mm x 132 mm x 125 mm	355 mm x 132 mm x 125 mm
Installation	DIN-Rail or Wall Mounting		
Environmental			
Operating Temperature	-25 to +75°C		
Storage Temperature	-30 to +80°C		
Ambient Relative Humidity	10 to 90% RH, non-condensing		
Power			
Input Range	+10 to +30 V_{DC}		
Isolation	1 kV		
Redundant Power Inputs	Yes, with one power relay (1 A @ 24 V_{DC}) for alarm		
Capacity	3.7 A, 5 V supply to CPU and backplane, 1.3 A, 5 V supply to I/O expansion slots, 25 W in total	3.8 A, 5 V supply to CPU and backplane, 3.2 A, 5 V supply to I/O expansion slots, 30 W in total	4.0 A, 5 V supply to CPU and backplane, 3.0 A, 5 V supply to I/O expansion slots, 35 W in total
Consumption	16.6 W (0.69 A @ 24 V_{DC})	16.8 W (0.7 A @ 24 V_{DC})	18 W (0.75 A @ 24 V_{DC})

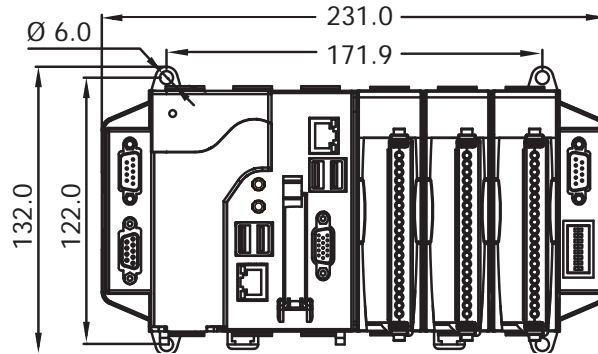XP-8x31-CE6 Series

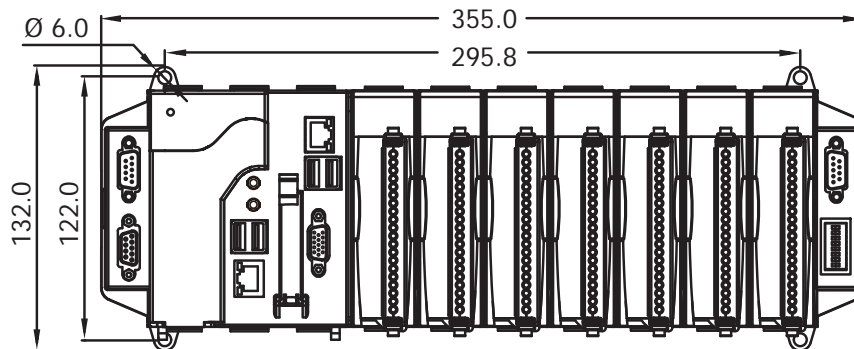# Dimensions

Side View

Front View XP-8131-CE6

Front View XP-8331-CE6

Front View XP-8331-CE6

Ordering Information

XP-8131-CE6	Standard XP-8000-CE6 with x86 CPU, Windows CE6 OS, and 1 I/O Slot (RoHS)
XP-8331-CE6	Standard XP-8000-CE6 with x86 CPU, Windows CE6 OS, and 3 I/O Slots (RoHS)
XP-8731-CE6	Standard XP-8000-CE6 with x86 CPU, Windows CE6 OS, and 7 I/O Slots (RoHS)