Features

- Windows 11 IoT Enterprise LTSC (64-bit)
- Intel® Atom™ x7211RE (1.0GHz, Dual-core)
- 8 GB DDR4 SDRAM
- 1x 256GB eMMC, 1 x CF card slot, 1 x Mini-PCIe SSD slot
- VGA / HDMI Display Output
- 2x 10/100/1000M Ethernet Ports
- Redundant Power Input

XP-9161-IoT11/XP-9361-IoT11/ XP-9761-IoT11

1/3/7-slot Metal Standard PAC with Intel® Atom™ x7211RE CPU and Windows 11 IoT Enterprise LTSC

Introduction

The XP-9000-IoT11 are Windows 11 IoT Enterprise LTSC based PACs 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 PAC. It is equipped with an Intel® Atom ™ x7211RE CPU, 1/3/7 I/O expansion slots and a variety of connectives including dual Gigabit Ethernet, VGA , USB port, RS-232 and RS-485 interface. Local I/O slots are available to use our I-9K and I-97K series I/O modules and remote I/O expansions are available to use Ethernet I/O modules and RS-485 I/O modules.

Windows 11 IoT Enterprise LTSC runs on 64-bit x86 platform with support for both Universal Windows App and Classic Windows applications.
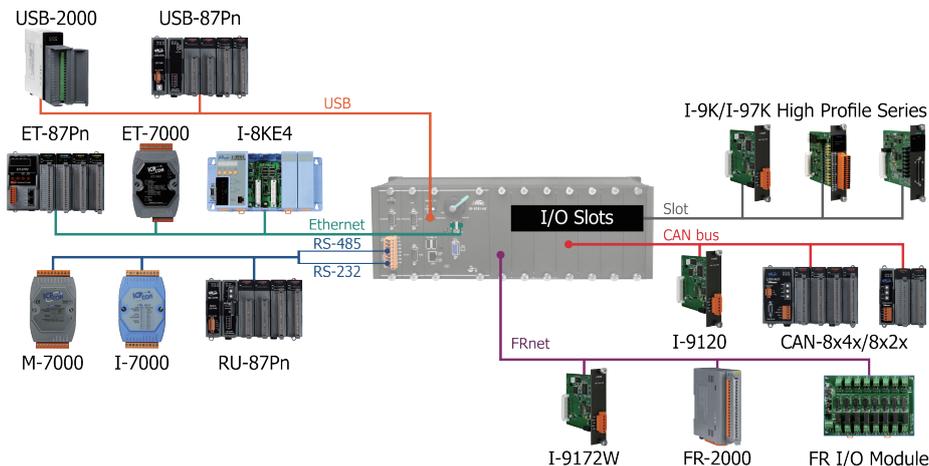
Windows 11 IoT

Windows 11 IoT Enterprise LTSC

Windows 11 IoT Enterprise is the latest evolution in the Windows IoT family, bringing next-generation power, security, and manageability to the Internet of Things. Built on the same foundation as Windows 10 IoT, it leverages Windows' extensive ecosystem and cloud connectivity while introducing a modernized user experience and enhanced security standards. It allows organizations to build secure, high-performance IoT solutions that are easily provisioned, managed at scale, and seamlessly integrated into a comprehensive cloud strategy.

- Modernized Windows Interface: Optimized for modern interaction while retaining familiar desktop and lockdown capabilities.
- Advanced Lockdown & Security: Enhanced hardware-based security requirements to ensure chip-to-cloud protection.
- Full Framework Support: Native support for UWP, WinForms, WPF, and WinUI 3 for building rich, modern applications.
- Improved Efficiency: Optimized performance on modern silicon and improved support for containerized workloads.
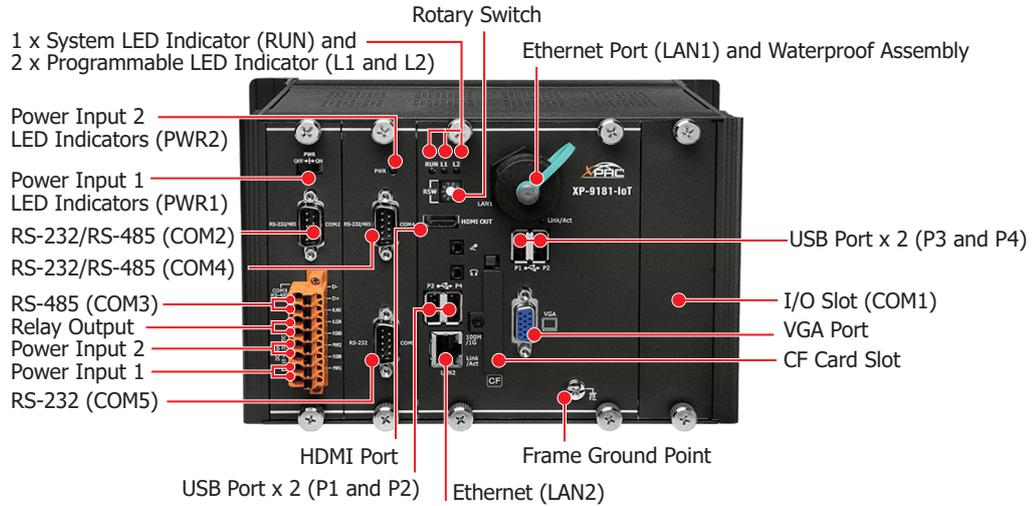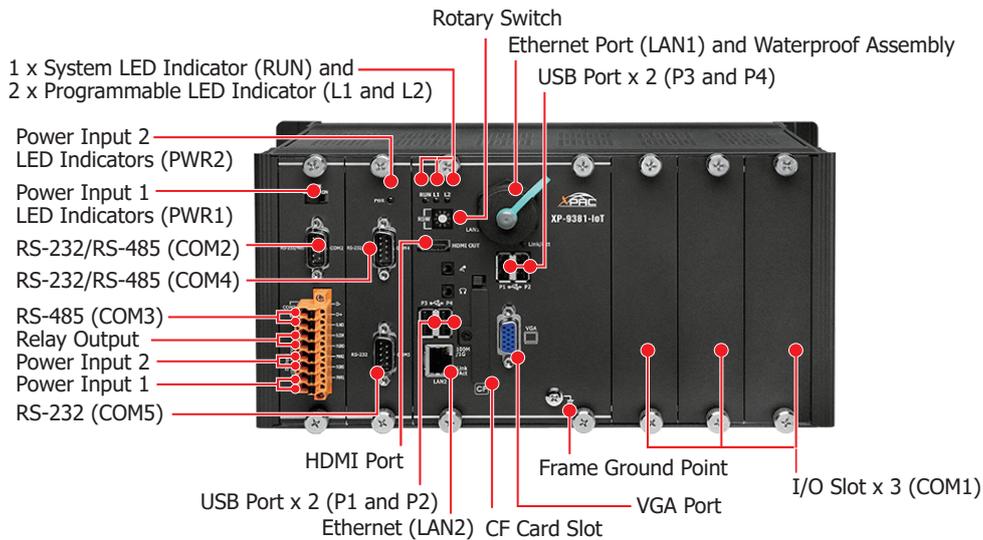
Applications

■ Specifications

Model	XP-9161-IoT11	XP-9361-IoT11	XP-9761-IoT11
Software			
OS	Windows 11 IoT Enterprise LTSC (64-bit)		
Framework Support	.Net Framework 3.5 ~ 4.8.1, .NET 6/8		
Multilanguage Support	English, German, French, Spanish, Portuguese, Russian, Italian, Korean, Japanese, Simplified Chinese, Traditional Chinese		
SDK	Dll for VC, Dll for Visual Studio.Net		
Main Unit			
CPU	Intel® Atom ™ x7211RE CPU (1.0GHz, Dual-core)		
64-bit Hardware Serial Number	Yes		
System Memory	8 GB DDR4 SDRAM		
Storage	1x 256 GB eMMC , 1x CF card slot, 1 x Mini-PCIe SSD slot		
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			
Signal	VGA, HDMI		
Resolution	VGA 1280 x 1024 ~ 1920 x 1080 (16 : 9), 640 x 480 ~ 1024 x 768 (4 : 3) HDMI 2560 x 1600 @ 24bpp		
LED Indicators			
Status	1 x System, 2 x Power, 2 x Programmable		
I/O Expansion			
I/O Type	I-9K, I-97K series		
Slots	1	3	7
COM Ports			
Ports	1 x RS-232 (3000 VDC Isolated), 1 x RS-485 (3000 VDC Isolated), 2 x RS-232/RS-485 (3000 VDC Isolated)		
HMI			
Buzzer	Yes		
Rotary Switch	1 x 10 Position (0 ~ 9)		
Audio			
Cable	Microphone-in and Earphone-out		
Ethernet			
Ports	2 x RJ-45, 10/100/1000 Base-TX		
USB			
Ports	4 x USB 2.0		
Power			
Input Range	+10 ~ 30 VDC (1 kV Isolated)		
Redundant Power Inputs	Yes		
Consumption	18.5 W	18.7 W	20.4 W
Mechanical			
Dimensions(W x L x H)	239 x 164 x 133 mm	300 x 164 x 133 mm	422 x 164 x 133 mm
Installation	DIN-Rail, Wall mounting		
Environmental			
Operating Temperature	-25 ~ +60 ° C		
Storage Temperature	-30 ~ +80 ° C		
Humidity	10 ~ 90 % RH (non-condensing)		

■ Appearance

XP-9161-IoT11

- Rotary Switch
- 1 x System LED Indicator (RUN) and 2 x Programmable LED Indicator (L1 and L2)
- Ethernet Port (LAN1) and Waterproof Assembly
- Power Input 2 LED Indicators (PWR2)
- Power Input 1 LED Indicators (PWR1)
- RS-232/RS-485 (COM2)
- RS-232/RS-485 (COM4)
- RS-485 (COM3)
- Relay Output
- Power Input 2
- Power Input 1
- RS-232 (COM5)
- USB Port x 2 (P3 and P4)
- I/O Slot (COM1)
- VGA Port
- CF Card Slot
- HDMI Port
- USB Port x 2 (P1 and P2)
- Ethernet (LAN2)
- Frame Ground Point

XP-9361-IoT11

- Rotary Switch
- Ethernet Port (LAN1) and Waterproof Assembly
- USB Port x 2 (P3 and P4)
- 1 x System LED Indicator (RUN) and 2 x Programmable LED Indicator (L1 and L2)
- Power Input 2 LED Indicators (PWR2)
- Power Input 1 LED Indicators (PWR1)
- RS-232/RS-485 (COM2)
- RS-232/RS-485 (COM4)
- RS-485 (COM3)
- Relay Output
- Power Input 2
- Power Input 1
- RS-232 (COM5)
- HDMI Port
- USB Port x 2 (P1 and P2)
- Ethernet (LAN2)
- CF Card Slot
- VGA Port
- Frame Ground Point
- I/O Slot x 3 (COM1)

XP-9761-IoT11

- Rotary Switch
- Ethernet Port (LAN1) and Waterproof Assembly
- USB Port x 2 (P3 and P4)
- 1 x System LED Indicator (RUN) and 2 x Programmable LED Indicator (L1 and L2)
- Power Input 2 LED Indicators (PWR2)
- Power Input 1 LED Indicators (PWR1)
- RS-232/RS-485 (COM2)
- RS-232/RS-485 (COM4)
- RS-485 (COM3)
- Relay Output
- Power Input 2
- Power Input 1
- RS-232 (COM5)
- HDMI Port
- USB Port x 2 (P1 and P2)
- Ethernet (LAN2)
- CF Card Slot
- Frame Ground Point
- VGA Port
- I/O Slot x 7 (COM1)

■ Dimensions (Units: mm)

XP-9161-IoT11/XP-9361-IoT11/XP-9761-IoT11

164.0
144.5
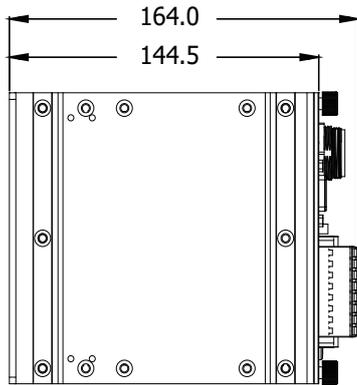
Left Side View

XP-9161-IoT11

239.0
222.1
210.3

Ø5.4
75.5
57.1
133.0
Ø7.5
3.0

Front View

XP-9361-IoT11

300.0
283.0
271.2

Ø5.4
75.5
57.1
133.0
Ø7.5
3.0

Front View

XP-9761-IoT11

422.0
404.9
393.1

Ø5.4
75.5
57.1
133.0
Ø7.5
3.0
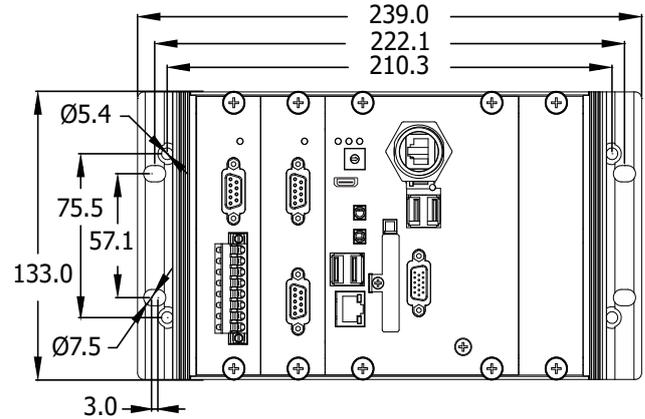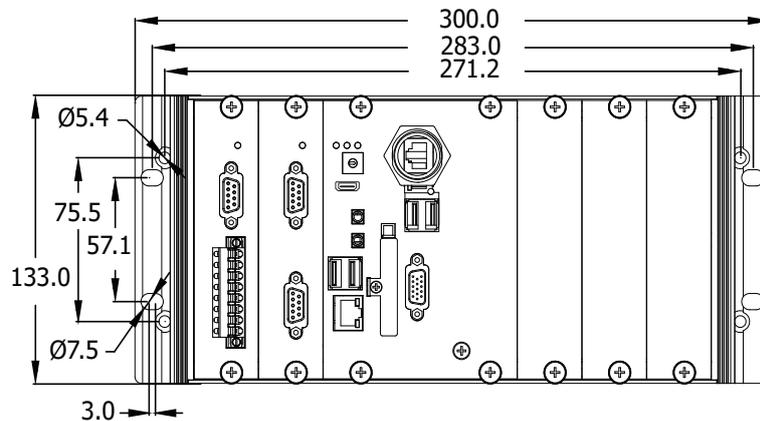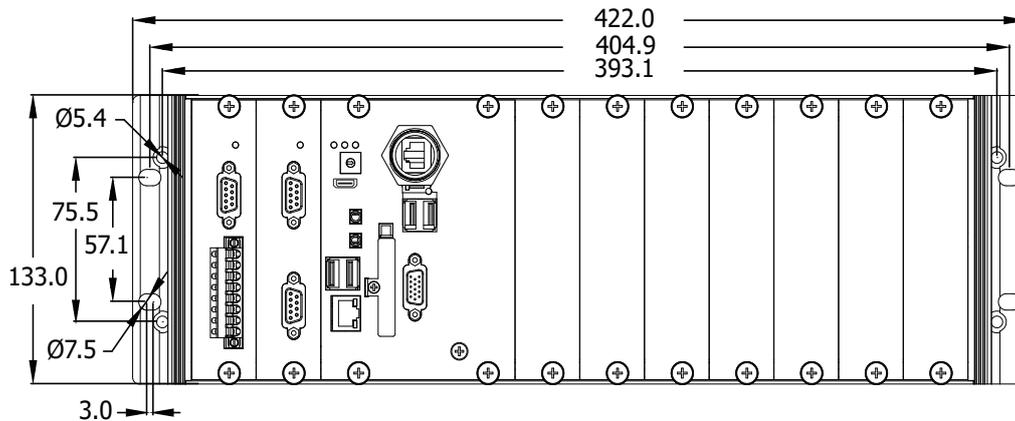
Front View

■ Ordering Information

XP-9161-IoT11 CR	1-slot Metal Standard PAC with Intel® Atom™ x7211RE CPU and Windows 11 IoT Enterprise LTSC (RoHS)
XP-9361-IoT11 CR	3-slot Metal Standard PAC with Intel® Atom™ x7211RE CPU and Windows 11 IoT Enterprise LTSC (RoHS)
XP-9761-IoT11 CR	7-slot Metal Standard PAC with Intel® Atom™ x7211RE CPU and Windows 11 IoT Enterprise LTSC (RoHS)