ICP DAS

Features

- PXA270, 520 MHz CPU
- Windows CE.NET 5.0 Core
- Hard Real-Time Capability
- 64-bit Hardware Serial Number for Software Protection
- Audio with Microphone-In and Earphone-Out
- I/O Expansion Bus
- VGA Port Output
- Dual 10/100M Ethernet Ports
- 3 Serial Ports (RS-232/485)
- Operating Temperature: -25 ~ +75°C

CE FC RoHS

WP-5141/WP-5141-OD/WP-5151/WP-5151-OD

Introduction

The WP-51xx series is equipped a PXA270 CPU and running a windows CE.NET 5.0 operating system. Compared to µPAC-5000, it has a VGA port to support graphic display and no need HMI. Instead of internal wireless module, the user should use external wireless device through Ethernet or RS-232 for wireless communication. Using Windows CE.NET 5.0, it is capable of running PC-based software, such as Visual Basic.NET, Visual C#, Embedded Visual C++, SCADA software, ISaGRAF …etc.
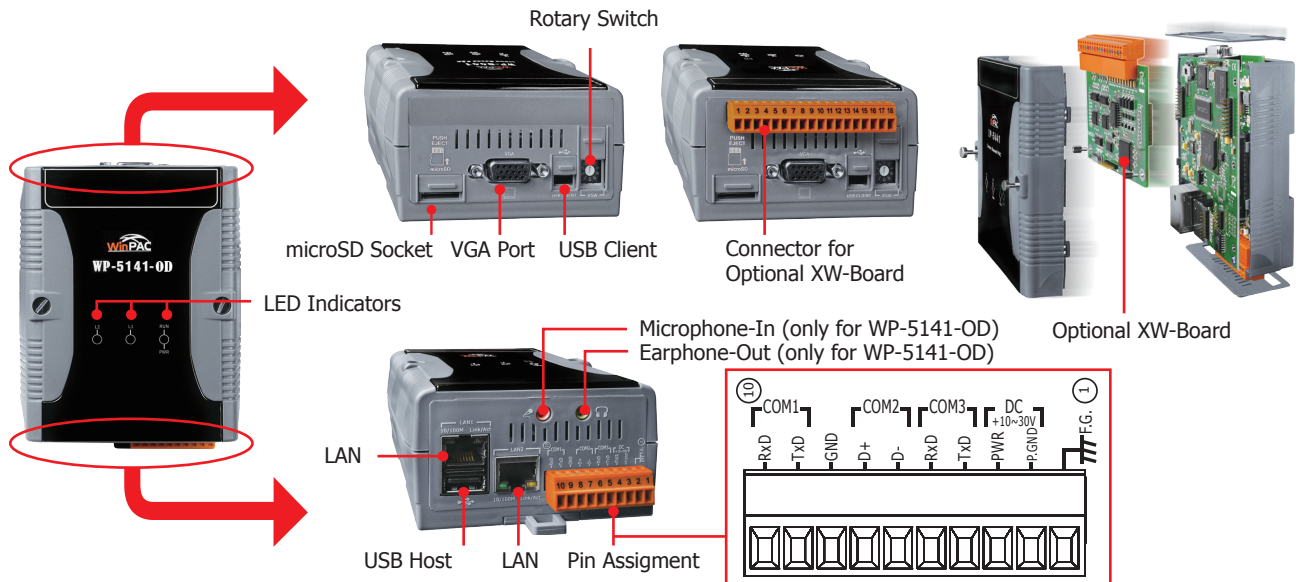
Windows CE5

Microsoft **Windows CE.net**

Windows CE 5 is a compact and real-time OS used to quickly create time critical and high performance applications. Using Windows CE 5 gives an ability to run PC-based control software such as Visual Basic .NET, Virtual C#, SCADA software, SoftPLC… etc.

★ FTP Server
★ Web Server
★ SQL Compact Edition 3.5
★ .NET Compact Framework 3.5
★ Virtual CE Pro (VCEP)
★ OPC Server (NAPOPC_CE5 DA Server)

Appearance

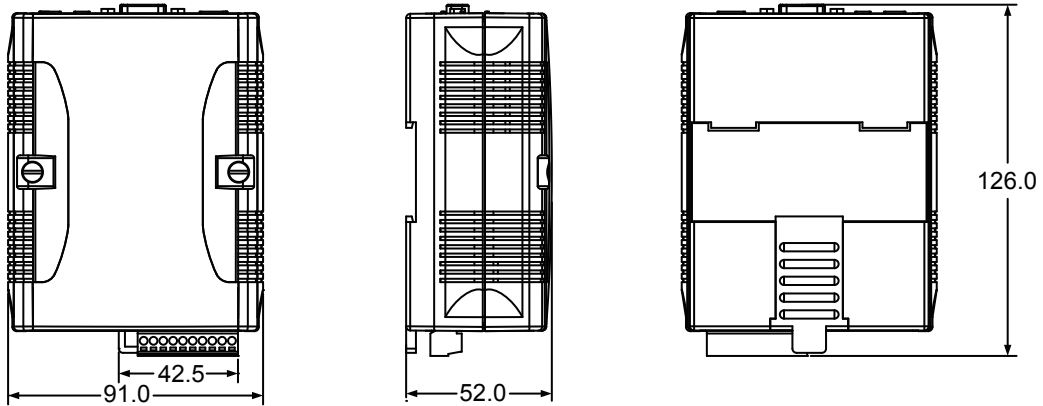Rotary Switch

microSD Socket   VGA Port   USB Client   Connector for Optional XW-Board   Optional XW-Board

LED Indicators

Microphone-In (only for WP-5141-OD)
Earphone-Out (only for WP-5141-OD)

LAN

USB Host   LAN   Pin Assigment

COM1			COM2		COM3		DC +10~30V		
RxD	TxD	GND	D+	D-	RxD	TxD	PWR	P.GND	F.G.

WP-5000 Series PAC

Specifications

Models	WP-5141	WP-5141-OD	WP-5151	WP-5151-OD
System Software				
OS	Windows CE 5.0			
.Net Compact Framework	3.5			
Embedded Service	FTP server, Web server (supports VB script, JAVA script), Embedded SQL server			
SDK Provided	Dll for eVC, Dll for Visual Studio.Net 2003/2005/2008			
Multilanguage Support	English, German, French, Spanish, Russian, Italian, Korean, Simplified Chinese, Traditional Chinese			
CPU Module				
CPU	PXA270 or compatible (32-bit and 520 MHz)			
SDRAM	128 MB			
Flash	64 MB (32 MB for OS, 32 MB for System_Disk and System Registry)			
EEPROM	16 KB Data Retention: 40 years; 1,000,000 erase/write cycles			
Expansion Flash Memory	microSD socket with one 2 GB microSD card (support up to 16 GB microSDHC card)			
RTC (Real Time Clock)	Provide second, minute, hour, date, day of week, month, year			
64-bit Hardware Serial Number	Yes, for Software Copy Protection			
Dual Watchdog Timers	Yes			
LED Indicators	1 LED for Power and Running, 2 LEDs for user programmable			
Rotary Switch	Yes (0 ~ 9)			
VGA & Communication Ports				
VGA	Yes, 640 × 480 / 800 × 600			
Ethernet	RJ-45 x 2, 10/100 Base-TX, (Auto-negotiating, Auto MDI/MDI-X, LED indicators)			
USB 1.1 (client)	1			
USB 1.1 (host)	1			
Audio	-	Microphone-In and Earphone-Out	-	Microphone-In and Earphone-Out
COM 1	RS-232 (RxD, TxD and GND); Non-isolated			
COM 2	RS-485 (Data+, Data-); 2500 V_{DC} isolated			
COM 3	RS-232 (RxD, TxD and GND); Non-isolated		RS-485 (Data+, Data-); 2500 V_{DC} isolated	
I/O Expansion				
I/O Expansion Bus	Yes, to mount one optional XW-Board.			
Mechanical				
Dimensions (W x L x H)	91 mm x 126 mm x 52 mm			
Installation	DIN-Rail Mounting			
Environmental				
Operating Temperature	-25 ~ +75°C			
Storage Temperature	-30 ~ +80°C			
Ambient Relative Humidity	10 ~ 90% RH (non-condensing)			
Power				
Input Range	+10 ~ +30 VDC			
Isolation	1 kV			
Consumption	4.8 W	6 W	4.8 W	6 W

WP-5000 Series PAC

Dimensions

WP-5000

42.5
91.0
52.0
126.0

WP-5000 with XW-board

42.5
91.0
52.0
131.2
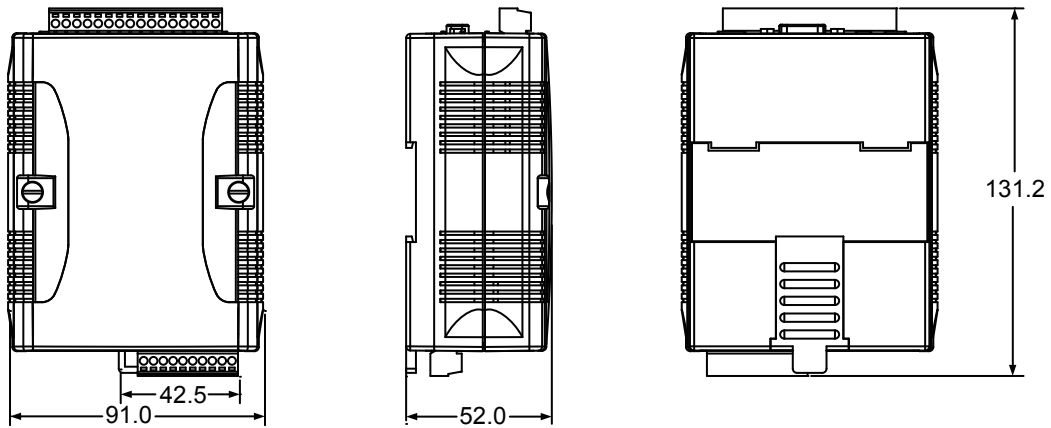
Ordering Information

WP-5141-EN CR	Standard WinPAC-5000 (English Version of OS) (RoHS)
WP-5141-OD-EN CR	Standard WinPAC-5000 with Audio (English Version of OS) (RoHS)
WP-5141-TC CR	Standard WinPAC-5000 (Traditional Chinese Version of OS) (RoHS)
WP-5141-OD-TC CR	Standard WinPAC-5000 with Audio (Traditional Chinese Version of OS) (RoHS)
WP-5141-SC CR	Standard WinPAC-5000 (Simplified Chinese Version of OS) (RoHS)
WP-5141-OD-SC CR	Standard WinPAC-5000 with Audio (Simplified Chinese Version of OS) (RoHS)

WP-5151-EN CR	Standard WinPAC-5000 (English Version of OS) (RoHS)
WP-5151-OD-EN CR	Standard WinPAC-5000 with Audio (English Version of OS) (RoHS)
WP-5151-TC CR	Standard WinPAC-5000 (Traditional Chinese Version of OS) (RoHS)
WP-5151-OD-TC CR	Standard WinPAC-5000 with Audio (Traditional Chinese Version of OS) (RoHS)
WP-5151-SC CR	Standard WinPAC-5000 (Simplified Chinese Version of OS) (RoHS)
WP-5151-OD-SC CR	Standard WinPAC-5000 with Audio (Simplified Chinese Version of OS) (RoHS)

Option Accessories

DP-660	24 V_{DC}/2.5 A, 60 W and 5 V_{DC}/0.5 A, 2.5 W Power Supply with DIN-Rail Mounting
DP-1200	24 V_{DC}/5.0 A, 120 W Power Supply with DIN-Rail Mounting (RoHS)
MDR-20-24	24 V_{DC}/1.0 A, 24 W Power Supply with DIN-Rail Mounting (RoHS)
MDR-60-24	24 V_{DC}/2.5 A, 60 W Power Supply with DIN-Rail Mounting (RoHS)

WP-5000 Series PAC