







### 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

## Introduction

The WP-51xx series is equipped a PXA270 CPU and running a windows CE.NET 5.0 operating system. Compared to  $\mu$ PAC-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.

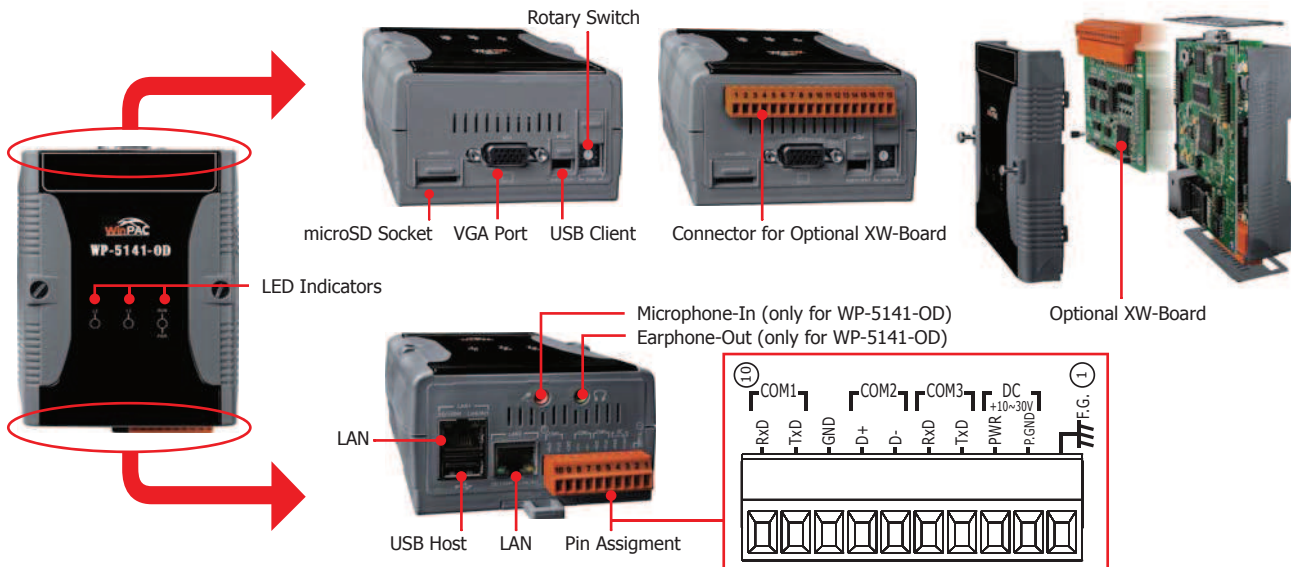
## Windows CE5



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)
- ★ Soft PLC solution: WP-8xx7, WP-5xx7 and VP-25W7 (ISaGRAF inside)
- ★ SCADA solution: WP-8xx9, WP-5xx9 and VP-25W9 (InduSoft inside)

## Appearance



## Specifications

Models	WP-5141	WP-5141-OD
<b>System Software</b>		
OS	Windows CE 5.0 Core	
.Net Compact Framework	3.5	
Embedded Service	FTP server, Web server	
SDK Provided	DII for eVC, DII for Visual Studio.Net 2003/2005/2008	
Multilanguage Support	English, German, French, Spanish, Russian, Italian, Korean, Simplified Chinese, Traditional Chinese	
<b>CPU Module</b>		
CPU	PXA270, 520 MHz	
SDRAM	128 MB	
Flash	64 MB	
EEPROM	16 KB	
Expansion Flash Memory	microSD socket with one 2 GB microSD card (support up to 32 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)	
<b>VGA &amp; Communication Ports</b>		
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
COM 1	RS-232 (Rx/D, Tx/D and GND); Non-isolated	
COM 2	RS-485 (Data+, Data-); 2500 V <sub>DC</sub> isolated	
COM 3	RS-232 (Rx/D, Tx/D and GND); Non-isolated	
<b>I/O Expansion</b>		
I/O Expansion Bus	Yes, to mount one optional XW-Board.	
<b>Mechanical</b>		
Dimensions (W x L x H)	91 mm x 132 mm x 52 mm	
Installation	DIN-Rail Mounting	
<b>Environmental</b>		
Operating Temperature	-25 ~ +75°C	
Storage Temperature	-30 ~ +80°C	
Ambient Relative Humidity	10 ~ 90% RH (non-condensing)	
<b>Power</b>		
Input Range	+10 ~ +30 V <sub>DC</sub>	
Isolation	1 kV	
Consumption	4.8 W	6 W

## Ordering Information

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

## Option Accessories

DP-660	24 V <sub>DC</sub> /2.5 A, 60 W and 5 V <sub>DC</sub> /0.5 A, 2.5 W Power Supply with DIN-Rail Mounting
DP-1200 CR	24 V <sub>DC</sub> /5.0 A, 120 W Power Supply with DIN-Rail Mounting (RoHS)
MDR-20-24 CR	24 V <sub>DC</sub> /1.0 A, 24 W Power Supply with DIN-Rail Mounting (RoHS)
MDR-60-24 CR	24 V <sub>DC</sub> /2.5 A, 60 W Power Supply with DIN-Rail Mounting (RoHS)
XW-Board	Add-on I/O Expansion Board