| WP-8131 | WP-8431 | WP-8831 |
| WP-8141 | WP-8441 | WP-8841 |

Available soon

| WP-8051 | WP-8351 | WP-8751 |

Features

- PXA270, 520 MHz CPU
- Windows CE 5.0
- Hard Real-Time Capability
- VGA Port Output
- Support eLogger HMI
- Redundant Power Inputs
- Operating Temperature: -25 ~ +75°C

CE FC

Introduction

WP-8x31, WP-8x41 and WP-8x51 Series are the new generation Windows CE 5.0 based PACs of ICP DAS. It is equipped with a PXA270 CPU (520 MHz), various connectivity (VGA, USB, Ethernet, RS-232/485) and I/O slots 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 5.0 on WinPAC include hard real-time capability, small core size, fast boot speed, interrupt handling at a deeper level and achievable deterministic control. WinPAC is also capable of running PC-based control software such as Visual Basic .NET, Visual C#, SCADA software, SoftPLC…. 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.
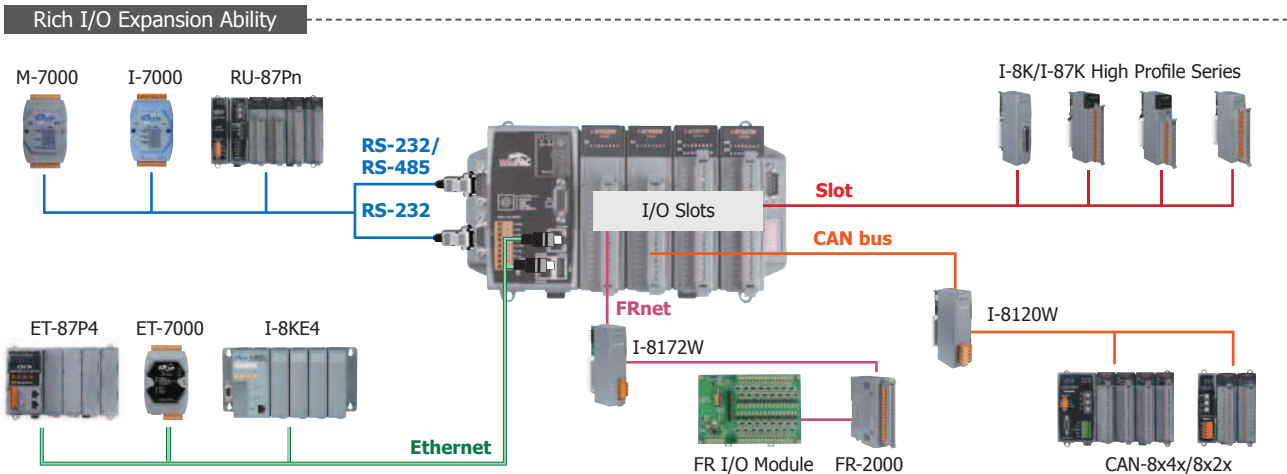
Windows CE5

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

Applications

Rich I/O Expansion Ability

M-7000   I-7000   RU-87Pn

I-8K/I-87K High Profile Series

RS-232/RS-485

RS-232

I/O Slots

Slot

CAN bus

FRnet

I-8120W

ET-87P4   ET-7000   I-8KE4

I-8172W

Ethernet

FR I/O Module   FR-2000

CAN-8x4x/8x2x

Specifications

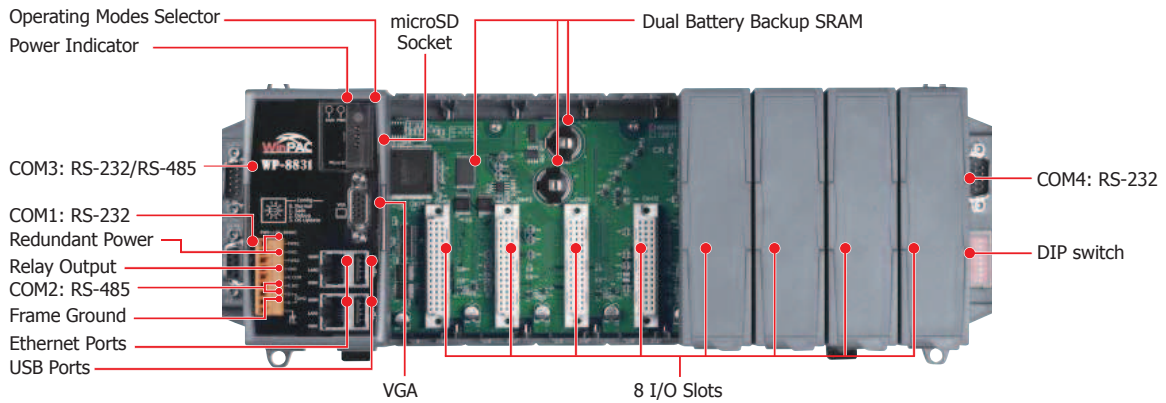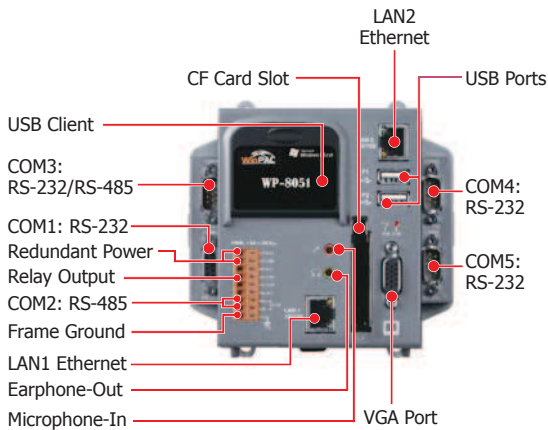| Models	WP-8131	WP-8431	WP-8831	WP-8141	WP-8441	WP-8841	WP-8051	WP-8351	WP-8751
System Software									
OS	Windows CE 5.0								
.Net Compact Framework	3.5								
Embedded Service	FTP server, Web server (supports VB script, JAVA script), Embedded SQL server								
SDK Provided	Dll for eVC, Dll for Visual Studio.Net 2005/2008								
Multilanguage Support	English, German, French, Spanish, Russian, Italian, Korean, Simplified Chinese, Traditional Chinese								
CPU Module									
CPU	PXA270, 520 MHz								
SDRAM	128 MB								
Dual Battery Backup SRAM	512 KB; data valid up to 5 years								
Flash	128 MB			96 MB			128 MB		
EEPROM	16 KB								
Memory Expansion	microSD socket with one 2 GB microSD card (support up to 32 GB microSDHC card)						CF slot with 2 GB CF Card (support up to 32 GB)		
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								
Programmable LED Indicator	1								
Rotary Switch	Yes (0 ~ 9)								
DIP Switch	-	Yes (8 bits)	-	Yes (8 bits)			-	Yes (8 bits)	
Audio	-						Microphone-In and Earphone-Out		
VGA & Communication Ports									
VGA	Yes 640 x 480, 800 x 600, 1024 x 768			Yes 640 x 480, 800 x 600					
Ethernet	RJ-45 x 2, 10/100 Base-TX (Auto-negotiating, Auto MDI/MDI-X, LED indicators)								
USB 1.1 (host)	2			1			2		
USB 1.1 (client)	-						1		
COM 0	Internal communication with the high profile I-87K series modules in slots								
COM 1	RS-232 (RxD, TxD and GND); non-isolated								
COM 2	RS-485 (Data+, Data-) with internal self-tuner ASIC; 2500 V_{DC} isolated for WP-8131 and WP-8141; 3000 V_{DC} isolated for other models.								
COM 3	-	Yes	-	Yes					
	RS-232/RS-485 (RxD, TxD, CTS, RTS and GND for RS-232, Data+ and Data- for RS-485); non-isolated								
COM 4	-	Yes	-	Yes					
	RS-232 (RxD, TxD, CTS, RTS, DSR, DTR, CD, RI and GND); non-isolated								
COM 5	-						Yes	-	
	RS-232 (RxD, TxD, and GND); non-isolated								
I/O Expansion Slots									
Slot Number	1	4	8	1	4	8	0	3	7
	Note: For High Profile I-8K and I-87K Modules Only								
Mechanical									
Dimensions (W x L x H)	95 mm x 132 mm x 111 mm: WP-8131, WP-8141 137 mm x 132 mm x 111 mm: WP-8051 231 mm x 132 mm x 111 mm: WP-8431, WP-8441, WP-8351 355 mm x 132 mm x 111 mm: WP-8831, WP-8841, WP-8751								
Installation	DIN-Rail or Wall 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 V_{DC}								
Isolation	1 kV								
Redundant Power Inputs	Yes, with one power relay (1 A @ 24 V_{DC}) for alarm								
Capacity	8 W	25 W	25 W	8 W	30 W	30 W	15 W	30 W	30 W
Consumption	7.3 W	9.1 W	9.1 W	7.3 W	9.1 W	9.1 W	8.4 W	9.6 W	10 W

Appearance

WP-8831
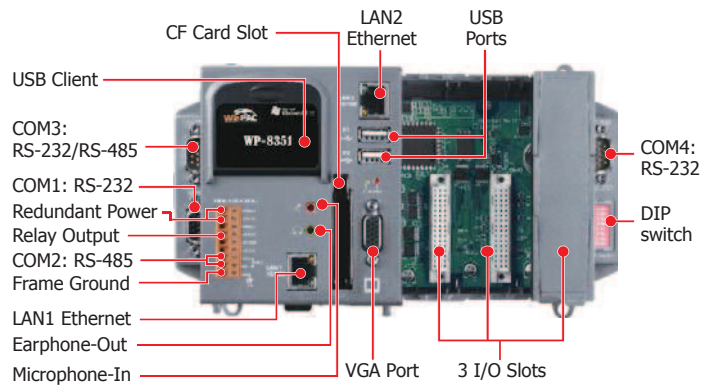

- Operating Modes Selector
- Power Indicator
- microSD Socket
- Dual Battery Backup SRAM
- COM3: RS-232/RS-485
- COM4: RS-232
- COM1: RS-232
- Redundant Power
- Relay Output
- COM2: RS-485
- Frame Ground
- Ethernet Ports
- USB Ports
- DIP switch
- VGA
- 8 I/O Slots

WP-8051

- LAN2 Ethernet
- CF Card Slot
- USB Ports
- USB Client
- COM3: RS-232/RS-485
- COM4: RS-232
- COM1: RS-232
- Redundant Power
- Relay Output
- COM5: RS-232
- COM2: RS-485
- Frame Ground
- LAN1 Ethernet
- Earphone-Out
- Microphone-In
- VGA Port

WP-8351

- LAN2 Ethernet
- USB Ports
- CF Card Slot
- USB Client
- COM3: RS-232/RS-485
- COM4: RS-232
- COM1: RS-232
- Redundant Power
- Relay Output
- DIP switch
- COM2: RS-485
- Frame Ground
- LAN1 Ethernet
- Earphone-Out
- Microphone-In
- VGA Port
- 3 I/O Slots

Ordering Information

WP-8131-EN	WP-8141-EN	Standard WinPAC-8000 with 1 I/O Slot (Multilanguage Version of OS)
WP-8431-EN	WP-8441-EN	Standard WinPAC-8000 with 4 I/O Slots (Multilanguage Version of OS)
WP-8831-EN	WP-8841-EN	Standard WinPAC-8000 with 8 I/O Slots (Multilanguage Version of OS)
WP-8131-TC	WP-8141-TC	Standard WinPAC-8000 with 1 I/O Slot (Traditional Chinese Version of OS)
WP-8431-TC	WP-8441-TC	Standard WinPAC-8000 with 4 I/O Slots (Traditional Chinese Version of OS)
WP-8831-TC	WP-8841-TC	Standard WinPAC-8000 with 8 I/O Slots (Traditional Chinese Version of OS)
WP-8131-SC	WP-8141-SC	Standard WinPAC-8000 with 1 I/O Slot (Simplified Chinese Version of OS)
WP-8431-SC	WP-8441-SC	Standard WinPAC-8000 with 4 I/O Slots (Simplified Chinese Version of OS)
WP-8831-SC	WP-8841-SC	Standard WinPAC-8000 with 8 I/O Slots (Simplified Chinese Version of OS)
WP-8051		Standard WinPAC-8000 without I/O Slot (Multilanguage Version of OS)
WP-8351		Standard WinPAC-8000 with 3 I/O Slots (Multilanguage Version of OS)
WP-8751		Standard WinPAC-8000 with 7 I/O Slots (Multilanguage Version of OS)

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 CR	24 V_{DC}/5.0 A, 120 W Power Supply with DIN-Rail Mounting (RoHS)
MDR-60-24 CR	24 V_{DC}/2.5 A, 60 W Power Supply with DIN-Rail Mounting (RoHS)

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Compact PAC