

8.2. WinPAC-5000 Series

• Overview

The diagram illustrates the WinPAC-5000 Family with a central unit labeled 'WinPAC WP-5441'. It highlights several key features:

- Rich Development Tools:** Includes logos for ISaGRAF, InduSoft, and Microsoft Visual Studio.net.
- Operating System:** Microsoft Windows CE.net.
- Audio In/Out:** Represented by microphone and headset icons.
- Various Communications:** Shows an Ethernet port, RS-232/485 port, and USB host port.
- Local I/O Expansion Board:** Shows a microSD card and several XW-board expansion modules.
- Text:** 'More than 10 I/O XW-board are supported'.

The ICP DAS WinPAC-5000 Series is the new generation PAC (Programmable Automation Controller). It is equipped a PXA270 CPU (520 MHz) running a Windows CE.NET 5.0 operating system, various connectivity (VGA, USB, Ethernet, RS-232/485) and I/O expansion bus.

The WinPAC-5000 series has many advantages, including hard real-time capability, small core size, fast boot speed, interrupt handling at a deeper level, achievable deterministic control and low cost. Using Windows CE.NET 5.0 gives it the ability to run PC-based control software such as Visual Basic.NET, Visual C#, Embedded Visual C++, SCADA software, SoftPLC ...etc. It gives users all of the best features of both traditional PLCs and Windows capable PCs.

For hardware expansion, it also supports an I/O expansion bus. The I/O expansion bus can be used to implement various I/O functions such as D/I, D/O,A/ D, D/A, Timer/Counter, UART, and other I/O functions. Nearly all kinds of I/O functions can be implemented by this bus. But the bus can support only one board. There are more than 10 boards available for WinPAC-5000 series, users can choose one of them to expand hardware features.

• Features

- 
 - Supports PC based software: eVC and VS .NET 2005/2008
 - Web server, FTP server, Telnet server
 - ISaGRAF version for IEC 61131-3 programming
 - InduSoft version for SCADA solution

2. Local I/O and Communication Expansion Board

WinPAC-5000 series equip an I/O expansion bus to support one optional expansion board, called XW-Board. It can be used to implement various I/O functions such as DI, DO, A/D, D/ A, Timer/Counter and various communication interface options, such as RS-232/422/485, CAN, FRnet, etc.



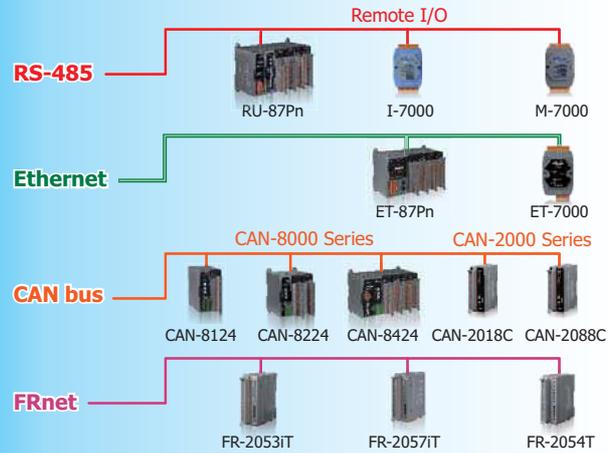
3. Remote I/O Module and Expansion Unit

With the built-in RS-485 and Ethernet ports, the 5000 series can connect RS-485/Ethernet remote I/O units (RU-87Pn/ET-87Pn) or modules (I-7000/M-7000/ET-7000). With an XW-Board, the 5000 series can have more communication ports or different interface to connect to other type of devices, for example, CANOpen devices, DeviceNet devices, or FRnet I/O modules.

4. Multi-Communication Interface Options

There are several of communication interfaces to expand I/O and connect to external devices:

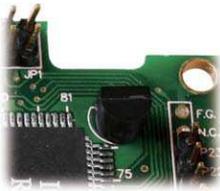
1. Ethernet
2. RS-232/485
3. USB host
4. CAN bus



5. Various Memory Storage Options

WinPAC-5000 provides various memory storage options, such as EEPROM and microSD. Customers can choose the memory based on their characteristics.

- 16 KB EEPROM: to store not frequently changed parameters.
- microSD/microSDHC: to implement portable data logging applications.

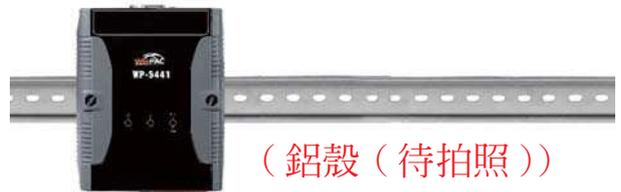


6. Unique 64-bit Hardware Serial Number to Protect Your Program

A unique 64-bit serial number is assigned to each hardware device to protect your software against piracy.

7. Plastic and Metal Casing

The default case is plastic material. Metal casing is also offered to provide extra security.



8. Highly Reliable Under Harsh Environmen

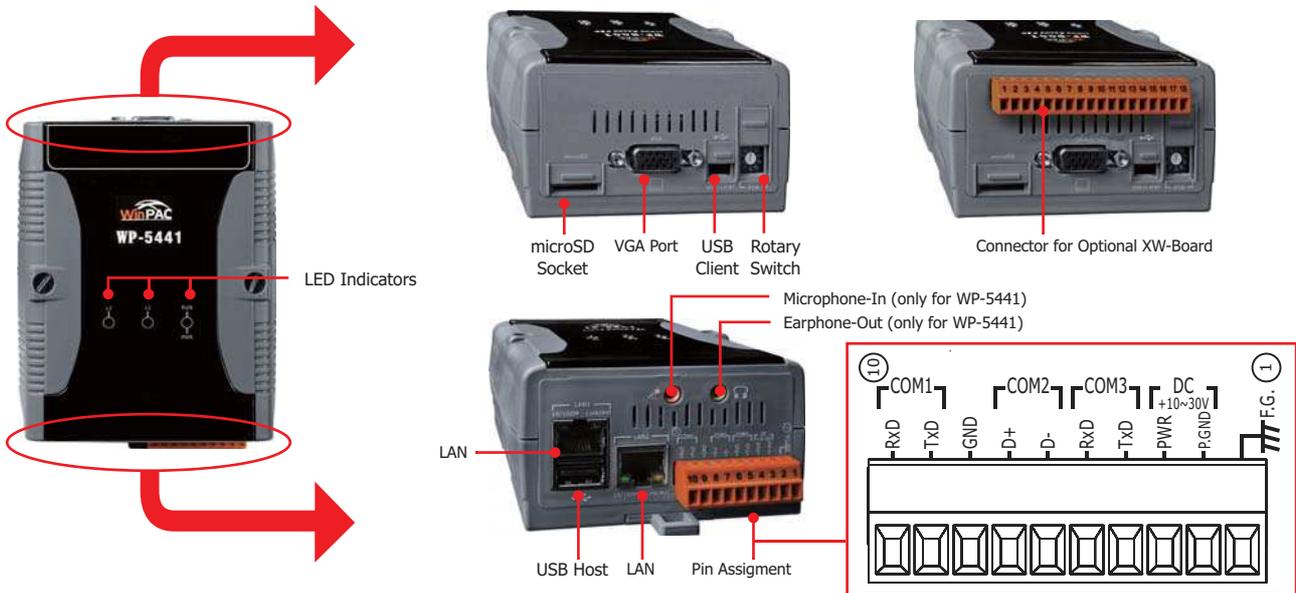
Our μ PACs operate in a wide range of temperature and humidity.

- Operating Temperature: -25 ~ +75°C
- Storage Temperature: -30 ~ +80°C
- Humidity 10 ~ 90% RH (non-condensing)

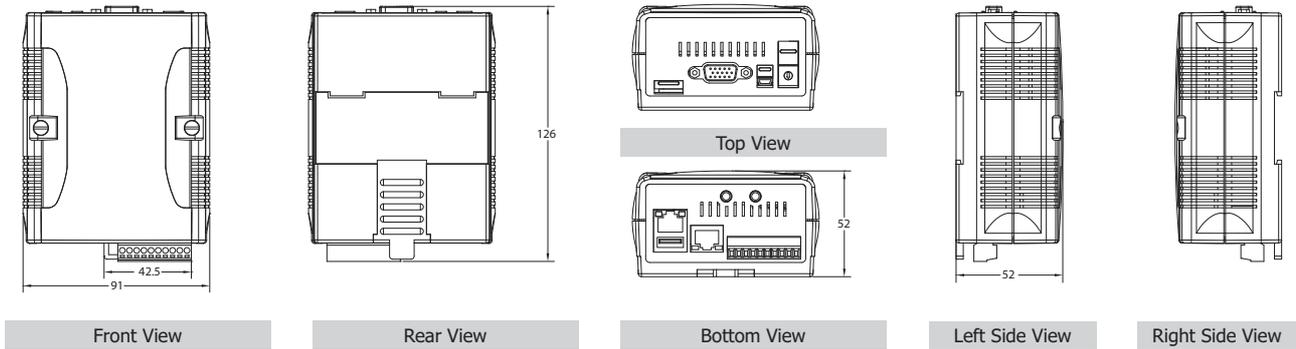


• Hardware

1. Appearance



2. Dimensions (Units: mm)



• Software

• Selection Guide

WP-5



Audio
1: N/A
4: Yes



Communication
4: Ethernet x 2 & USB x 1



Software
1: Standard
7: ISaGRAF
9: InduSoft
6: ISaGRAF + InduSoft



Language
EN: English
TC: Traditional Chinese
SC: Simplified Chinese

Standard WinPAC

Model Name	OS	Pre-installed Software	CPU	Flash	SDRAM	Ethernet	VGA Resolution	RS-232/RS-485	I/O Expansion Bus	Audio Port
WP-5141	CE 5.0	None	PXA270, 520 MHz	64 MB	128 MB	2	800 x 600	2/1	Yes (Note)	-
WP-5441										Yes

The controller supports the following software development tools:
 1. DLLs of I/O modules for eVC, VS.Net 2003/2005/2008
 2. DLLs of Modbus/RTU and Modbus/TCP for eVC and VS.Net 2003/2005/2008
 3. OPC server (Quicker)
 Note: The I/O Expansion Bus can mount one XW-Board only.

ISaGRAF Based WinPAC

Model Name	OS	Pre-installed Software	CPU	Flash	SDRAM	Ethernet	VGA Resolution	RS-232/RS-485	I/O Expansion Bus	Audio Port
WP-5147	CE 5.0	ISaGRAF	PXA270, 520 MHz	64 MB	128 MB	2	800 x 600	2/1	Yes (Note)	-
WP-5447										Yes

The controller fully supports all five of the IEC61131-3 standard PLC languages:
 1. Ladder diagram
 2. Function block diagram
 3. Sequential function chart
 4. Structured text
 5. Instruction List plus flow chart
 It supports Modbus protocol and can link to distributed I/O modules with Modbus or DCON protocol via the RS-232/485 or Ethernet.
 Note: The I/O Expansion Bus can mount one XW-Board only.

InduSoft Based WinPAC

Model Name	OS	Pre-installed Software	CPU	Flash	SDRAM	Ethernet	VGA Resolution	RS-232/RS-485	I/O Expansion Bus	Audio Port
WP-5149	CE 5.0	InduSoft	PXA270, 520 MHz	64 MB	128 MB	2	800 x 600	2/1	Yes (Note)	-
WP-5449										Yes

The controller supports the following software development tools:
 1. DLLs of I/O modules for eVC, VS.Net 2003/2005/2008
 2. DLLs of Modbus/RTU and Modbus/TCP for eVC and VS.Net 2003/2005/2008
 3. OPC server (Quicker)
 Note: The I/O Expansion Bus can mount one XW-Board only.

ISaGRAF & InduSoft Based WinPAC

Model Name	OS	Pre-installed Software	CPU	Flash	SDRAM	Ethernet	VGA Resolution	RS-232/RS-485	I/O Expansion Bus	Audio Port
WP-5146	CE 5.0	ISaGRAF & InduSoft	PXA270, 520 MHz	64 MB	128 MB	2	800 x 600	2/1	Yes (Note)	-
WP-5446										Yes

The controller includes features of ISaGRAF and InduSoft.
 Note: The I/O Expansion Bus can mount one XW-Board only.



Highlight Information

- Windows CE.NET 5.0 Core
- Hard Real-Time Capability
- Fast Boot Speed
- PXA270 CPU (32-bit & 520 MHz)
- 128 MB SDRAM & 64 MB Flash
- Support VS.Net 2003/2005/2008 & eVC
- 64-bit Hardware Serial Number for Software Protection
- Audio with Microphone-In and Earphone-Out
- I/O Expansion Bus
- Support VGA (640 × 480 / 800 × 600)
- Support microSD Socket
- Dual 10/100M Ethernet Ports
- 3 Serial Ports (RS-232/485)
- Operating Temperature: -25 ~ +75°C



Introduction

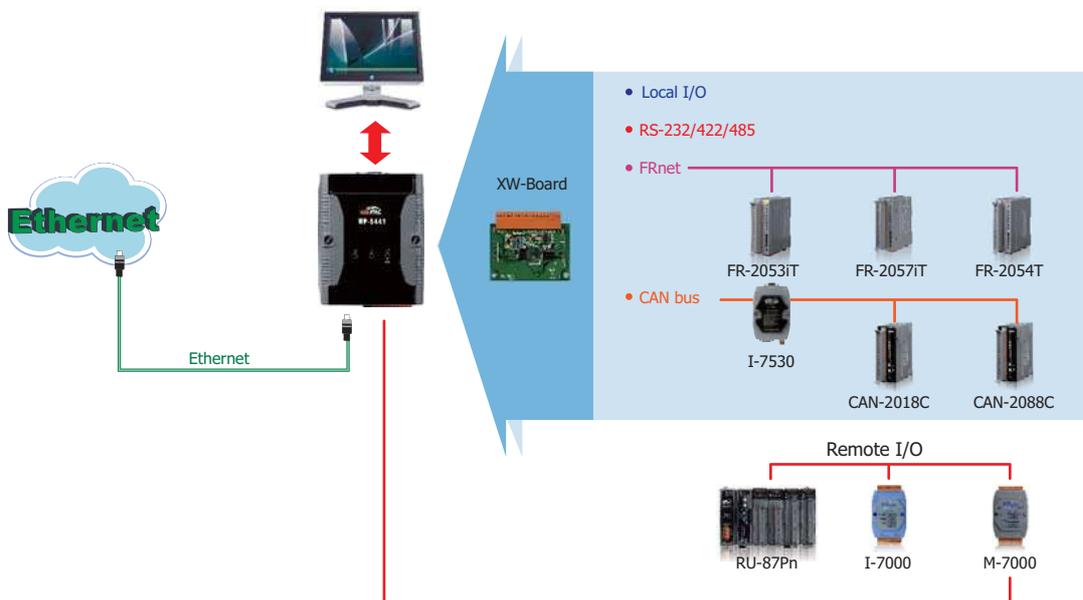
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Applications

Rich I/O Expansion Ability



Specifications

Models	WP-5141	WP-5441
System Software		
OS	Windows CE 5.0 Core	
.Net Compact Framework	2.0	
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, 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	
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 LED 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 Port (Microphone-In and Earphone-Out)	-	Yes
COM 1	RS-232 (RxD, TxD and GND); Non-isolated	
COM 2	RS-485 (D2+, D2-); 2500 V _{oc} ; isolated	
COM 3	RS-232 (RxD, TxD and GND); Non-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 132 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 V _{oc}	
Isolation	1 kV	
Consumption	4.8 W (0.2 A @ 24 V _{oc})	6 W (0.25 A @ 24 V _{oc})

Ordering Information

WP-5141-EN CR	Standard WinPAC-5000 (English Version of OS) (RoHS)
WP-5441-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-5441-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-5441-SC CR	Standard WinPAC-5000 with Audio (Simplified Chinese Version of OS) (RoHS)

Option Accessories

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



Highlight Information

- Windows CE.NET 5.0 Core
- Hard Real-Time Capability
- Fast Boot Speed
- PXA270 CPU (32-bit & 520 MHz)
- 128 MB SDRAM & 64 MB Flash
- Support VS.Net 2003/2005/2008 & eVC
- 64-bit Hardware Serial Number for Software Protection
- Audio with Microphone-In and Earphone-Out
- I/O Expansion Bus
- Support VGA (640 × 480 / 800 × 600)
- Support microSD Socket
- Dual 10/100M Ethernet Ports
- 3 Serial Ports (RS-232/485)
- Operating Temperature: -25 ~ +75°C

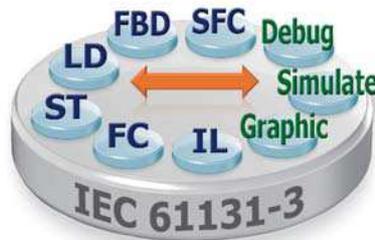


Introduction

WP-5147 and WP-5447 Series are the new generation ISaGRAF 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 ISaGRAF and 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.

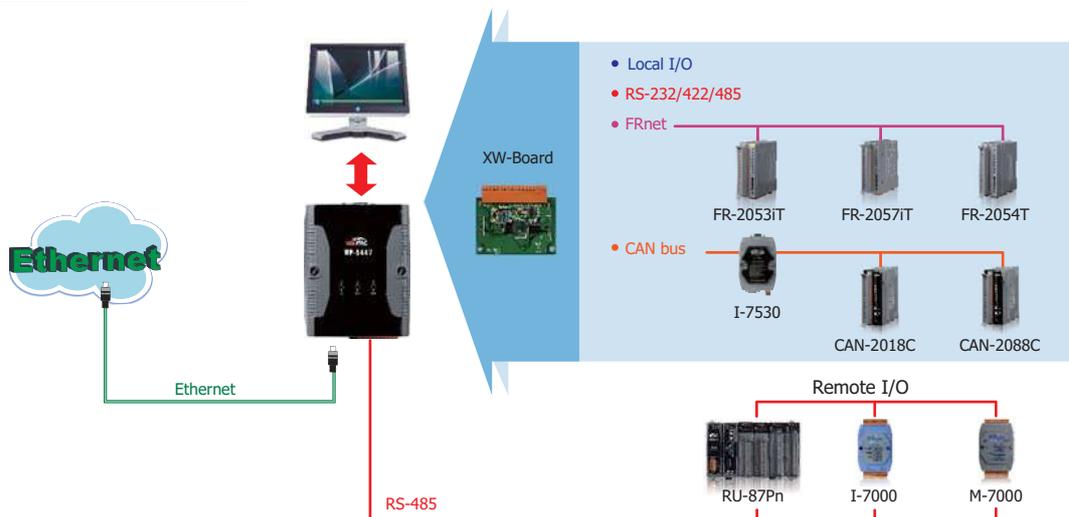
ISaGRAF is the most powerful SoftLogic package on the market. ISaGRAF is a PLC-like software and it supports IEC 61131-3 standard PLC programming languages (LD, FBD, SFC, ST, IL, FC), and can run the application generated by the workbench on any ISaGRAF PACs. The ISaGRAF workbench Ver. 3.x features

- IEC 61131-3 Standard Open PLC Programming Languages (LD, FBD, SFC, ST, IL, FC) + Flow Chart (FC)
- Auto-Scan I/O
- On-Line Debug/Control/Monitor, Off-Line Simulation
- Simple Graphic HMI
- Support Soft-GRAF HMI



Applications

Rich I/O Expansion Ability



Specifications

Models	WP-5147	WP-5447
System Software		
OS	Windows CE 5.0 Core	
.Net Compact Framework	2.0	
Embedded Service	FTP server, Web server	
Multilanguage Support	English, German, French, Spanish, Russian, Italian, Simplified Chinese, Traditional Chinese	
Development Software		
ISaGRAF Software	ISaGRAF Ver.3	IEC 61131-3 standard.
	Languages	LD, ST, FBD, SFC, IL & FC; support Soft-GRAF HMI.
	Max. Code Size	1 MB
	Scan Time	3 ~ 15 ms for normal program; 15 ~ 50 ms for complex or large program
Non-ISaGRAF	Options: MS eVC++ 4.0 or VS.NET 2005/2008 (VB.NET, C#.NET)	
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	
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 Indicator	3 Dual-Color LEDs (PWR, RUN, L1 ~ L4; RUN, L1 ~ L4 for user programmable)	
Rotary Switch	Yes (0 ~ 9)	
VGA & Communication Ports		
VGA	Yes 640 × 480 / 800 × 600	
Ethernet	RJ-45 × 2, 10/100 Base-TX (Auto-negotiating, Auto MDI/MDI-X, LED indicators)	
USB 1.1 (client)	1	
USB 1.1 (host)	1	
Audio Port (Microphone-In and Earphone-Out)	-	Yes
COM 1	RS-232 (RxD, TxD and GND); Non-isolated	
COM 2	RS-485 (D2+, D2-); 2500 V _{oc} ; isolated	
COM 3	RS-232 (RxD, TxD and GND); Non-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 132 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 V _{dc}	
Isolation	1 kV	
Consumption	4.8 W (0.2 A @ 24 V _{dc})	6 W (0.25 A @ 24 V _{dc})

ISaGRAF Specifications

Protocols (some protocols need optional devices)	
NET ID	1~255, user-assigned by software
Modbus TCP/IP Master	Link to max. 100 devices that support Standard Modbus TCP/IP Slave protocol
Modbus RTU/ASCII Master	Support Multi-port. Max. 10 ports
Modbus RTU Slave	Max. 5 Ports
Modbus TCP/IP Slave	Ethernet LAN1 & LAN2 support total up to 32 connections. When one Ethernet port is broken, the other one can still connect to PC/HMI.
Web HMI Protocol	Ethernet Ports for connecting PC running Internet Explorer
I-7000 & I-87K RS-485 Remote I/O	COM2 supports I-7000 I/O modules, I-87K base + I-87K Serial I/O boards and RU-87Pn + I-87K High Profile I/O boards as Remote I/O. Max. 255 modules for one controller.
M-7000 Series Modbus I/O	Max. 10 RS-485 ports can support M-7000 I/O. Each port can connect up to 32 M-7000 Modules.
Modbus TCP/IP I/O	LAN2 supports ICP DAS Ethernet I/O: I-8KE4-MTCP and I-8KE8-MTCP. If LAN2 is broken, it will switch to LAN1 automatically to continuously work. (LAN1 & LAN2's IP are requested set in the same IP domain)
Send Email	Supports functions to send email with one attached file via Ethernet port.
Ebus	LAN2 to exchange data between ISaGRAF Ethernet PAC via Ethernet port.
UDP Server & UDP Client : Exchange Message & Auto-Report	LAN1 or LAN2 supports UDP Server and UDP Client protocol to send/receive message to/from PC/HMI or other devices.
TCP Client : Exchange Message & Auto-Report	LAN1 or LAN2 supports TCP Client protocol to send/receive message to/from PC/HMI or other devices which support TCP server protocol. Ex: automatically report data to InduSoft's RXTX driver, or to connect a location camera.
* ISaGRAF FAQ: http://www.icpdas.com/faq/isagraf.htm	

Ordering Information

WP-5147-EN CR	ISaGRAF based WinPAC-5000 (English Version of OS) (RoHS)
WP-5447-EN CR	ISaGRAF based WinPAC-5000 with Audio (English Version of OS) (RoHS)
WP-5147-TC CR	ISaGRAF based WinPAC-5000 (Traditional Chinese Version of OS) (RoHS)
WP-5447-TC CR	ISaGRAF based WinPAC-5000 with Audio (Traditional Chinese Version of OS) (RoHS)
WP-5147-SC CR	ISaGRAF based WinPAC-5000 (Simplified Chinese Version of OS) (RoHS)
WP-5447-SC CR	ISaGRAF 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 CR	24 V _{DC} /5.0 A, 120 W Power Supply with DIN-Rail Mounting (RoHS)
MDR-20-24 CR	24 V _{DC} /5.0 A, 24 W Power Supply with DIN-Rail Mounting (RoHS)
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XW-Board	Add-on I/O Expansion Board



Highlight Information

- Windows CE.NET 5.0 Core
- Hard Real-Time Capability
- Fast Boot Speed
- PXA270 CPU (32-bit & 520 MHz)
- 128 MB SDRAM & 64 MB Flash
- Support VS.Net 2003/2005/2008 & eVC
- 64-bit Hardware Serial Number for Software Protection
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- Support VGA (640 × 480 / 800 × 600)
- Support microSD Socket
- Dual 10/100M Ethernet Ports
- 3 Serial Ports (RS-232/485)
- Operating Temperature: -25 ~ +75°C



Introduction

WinPAC-5149 and WinPAC-5449 Series are the new generation InduSoft based PACs of ICP DAS. It is equipped with a PXA270 CPU (520 MHz), various connectivity (VGA, USB, Ethernet, RS-232/485) and 1/4/8 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 InduSoft and 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.

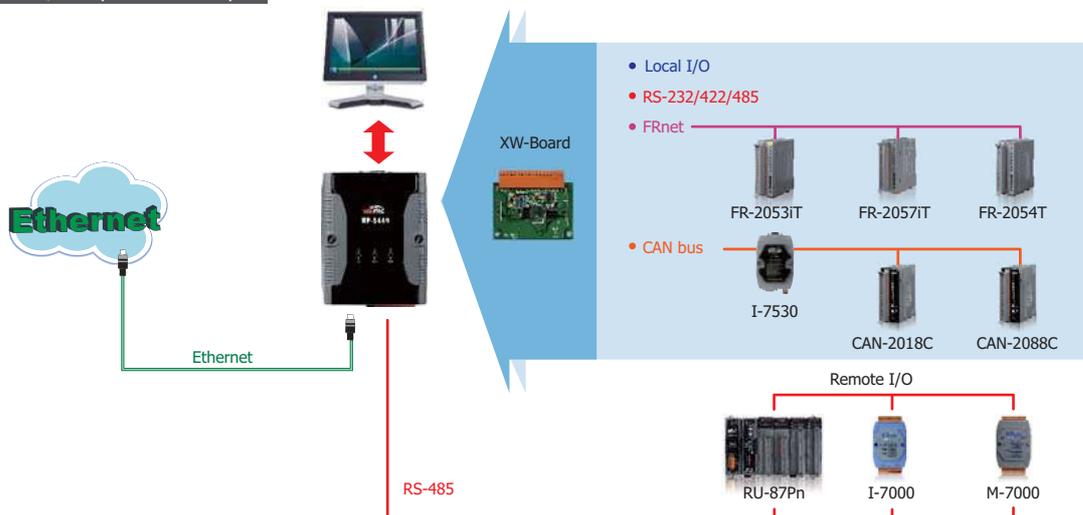
InduSoft Web Studio is a powerful, integrated collection of automation tools that includes all the building blocks needed to develop modern Human Machine Interfaces (HMI), Supervisory Control and Data Acquisition (SCADA) systems, and ViewPAC applications. InduSoft Web Studio's application runs in native Windows NT, 2000, XP, CE and CE .NET environments and conforms to industry standards such as Microsoft .NET, OPC, DDE, ODBC, XML, and ActiveX.

InduSoft Features

- Elegant Graphics
- Multi-Language
- System Redundancy
- Recipes and Reports
- Online and History Alarm / Event / Trend
- Various Communication Driver (DCON, Modbus, OPC, DDE, TCP/IP...)
- Remote Web Client Control & Security
- ActiveX (GSM / SHM / COM /WEB provided by ICP DAS)
- Database (Access, Excel, SQL, Oracle...)
- Online Configuration and debugging
- Others (VBScript, E-mail, FTP, SNMP...)

Applications

Rich I/O Expansion Ability



Specifications

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System Software		
OS	Windows CE 5.0 Core	
.Net Compact Framework	2.0	
Embedded Service	FTP server, Web server	
SDK Provided	DII for eVC, DII for Visual Studio.Net 2003/2005/2008	
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Rotary Switch	Yes (0 ~ 9)	
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I/O Expansion Bus	Yes, to mount one optional XW-Board.	
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Installation	DIN-Rail Mounting	
Environmental		
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Storage Temperature	-30 ~ +80°C	
Ambient Relative Humidity	10 ~ 90% RH (non-condensing)	
Power		
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