

**WP-8149****WP-8449****WP-8849****Introduction:**

WinPAC-8x49 Series (WP-8149/8449/8849) is the new generation WinCE based InduSoft PAC (Programmable Automation Controller).

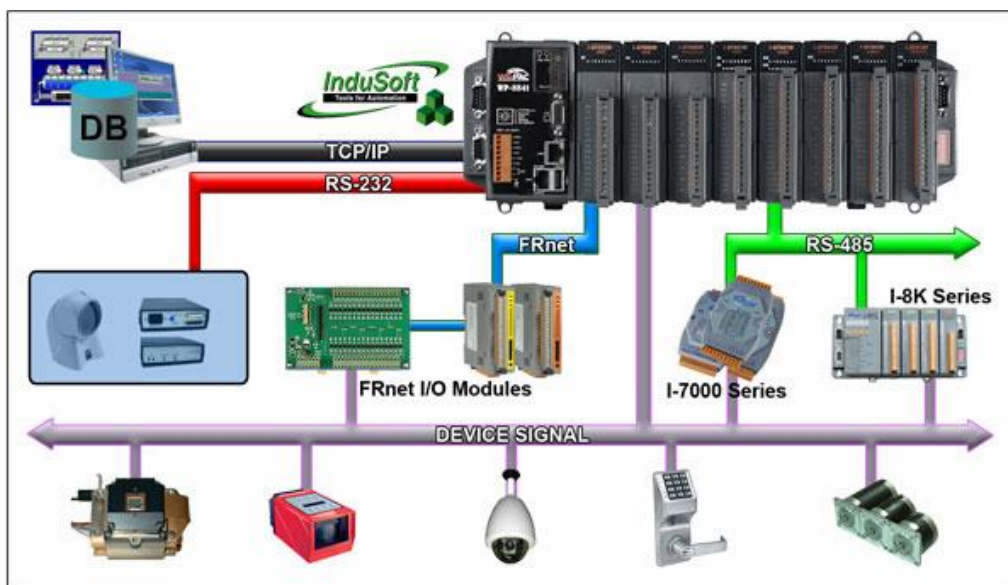
It equips a PXA270 CPU (520MHz) running Windows CE.NET 5.0 Operating System, variant connectivity (10/100 Base-TX dual Ethernet Ports, 2 or 4 RS-232/485 ports, 1 VGA, 1 USB port) and 1/4/8 slots for high performance, Parallel-type I/O modules (High Profile I-8K series) and Serial-type I/O modules (Hot-Swap High Profile I-87K I/O modules).

Memories come with 128 MB SRAM, 512 KB dual battery backup SRAM, 96 MB FLASH & 16 GB microSD. For redundant supporting: dual Watchdog Timers, redundant power inputs, dual battery backup SRAM, dual Ethernet Ports.

## Features

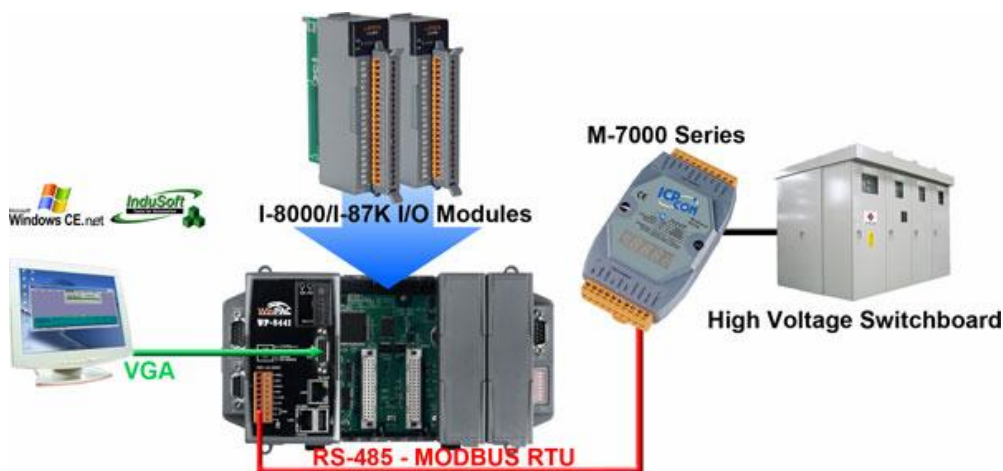
### InduSoft Web Studio General Features

IWS applications run on microcomputers connected in real-time to machines or processors through WinPAC programmable controllers, remote I/O devices, and other data acquisition equipment. These applications consist of animated operator-interface screens, rollable I/O devices, an application tags database, and optional modules such as alarm monitors, trend charts, recipes, schedulers, and a security system.



### Communication Protocol

DCON Protocol for embedded controllers or I/O modules is provided. Supports more than 200 Communication drivers such as Siemens, Omron and so forth. InduSoft supports Modbus / OPC / DDE / TCP/IP / SNMP Client and Server.

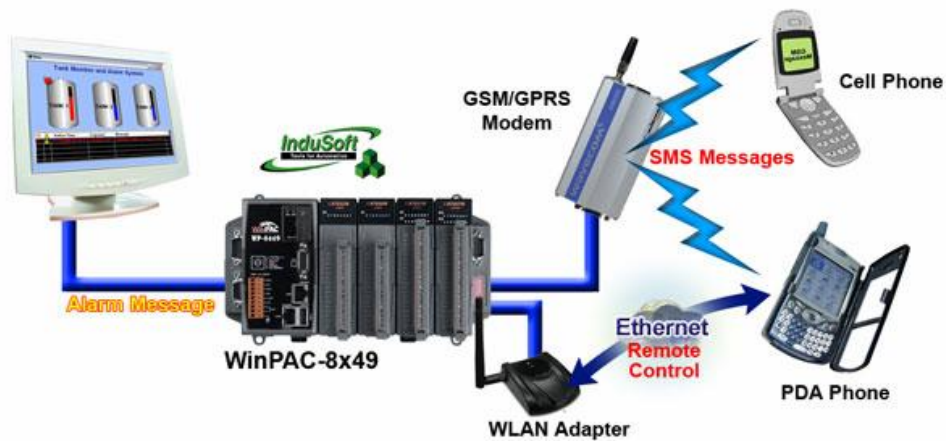


## Useful Package Tool is Provided

The Indusoft package tool is integrated with several ActiveX objects and communication tools, including "GSM\_ActiveX", "SHM\_ActiveX", "COM\_ActiveX" and "COM Port Communication Tool".

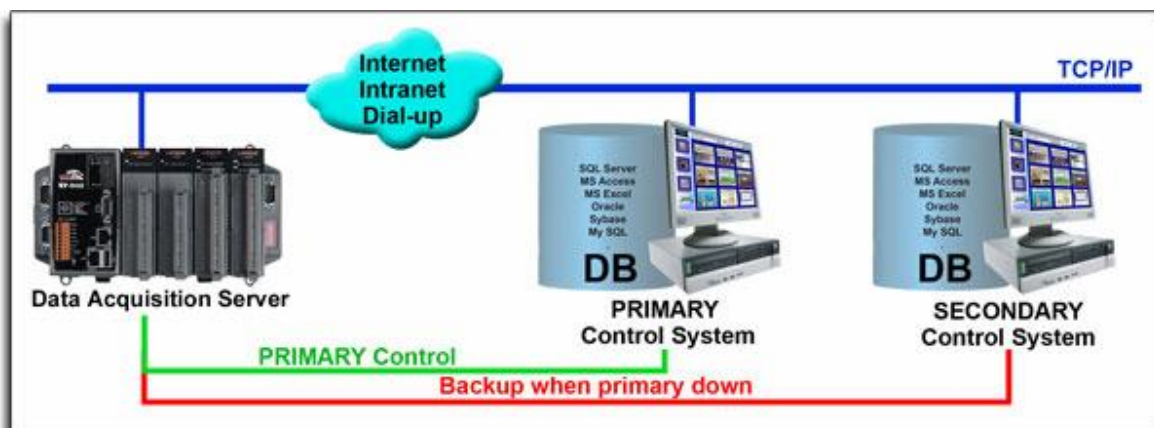
By using ActiveX objects provided in InduSoft, user can easily develop multi-function application. Reduce the number of used drivers.

To integrate with GSM/GPRS external modem easily.



Supports third-party SQL relational databases such as SQL Server, MS Access, Excel, Oracle. Database connectivity from any platform supported by IWS or CEView, through the unique Studio Database Gateway.

Supports Secondary Database in the modes "Redundancy" or "Store and Forward" to increase the reliability of the system and avoid loss of data.



**Specifications:**

<b>System Software</b>	
OS	Windows CE 5.0
.Net Compact Framework	2.0
Embedded Service	FTP Server, Web Server
<b>Development Software</b>	
InduSoft Software	InduSoft Web Studio v6.1 Service Pack 3
Non-InduSoft	Options: Microsoft EVC++4.0 or VS.NET 2003/2005/2008 (VB.NET 2003/2005/2008, C#.NET 2003/2005/2008)
<b>Web Service</b>	
Web HMI	Support Web HMI function, PC running Internet Explorer can access to the WP-8x49 via Local Ethernet or Internet or dial Modem, monitoring and control.
Security	Web HMI supports three levels user name and password protection
<b>Power Supply</b>	
Input Range	+10 ~ +30 VDC (unregulated)
Isolation	1 kV
Redundant Power Inputs	Yes, with one power relay (1 A @ 24 VDC) for alarm
Protection	WP-8149: 1.0 A, 5 V supply to CPU and backplane; 0.6 A, 5 V supply to I/O expansion slots, total 8 W WP-8449: 1.1 A, 5 V supply to CPU and backplane; 4.9 A, 5 V supply to I/O expansion slots, total 30 W WP-8849: 1.2 A, 5 V supply to CPU and backplane; 4.8 A, 5 V supply to I/O expansion slots, total 30 W
Consumption	WP-8149: 7.3 W (0.3 A @ 24 V); WP-8449: 9.1 W (0.38 A @ 24 V); WP-8849: 9.6 W (0.4 A @ 24 V);
<b>General Environment</b>	
Temperature	Operating: -25 °C ~ +75 °C ( -13 ° F ~ +167 ° F) , Storage : -30 °C ~ +85 °C ( -40 ° F ~ +176 ° F)
Humidity	5 % ~ 95 % RH (non-condensed)
<b>System</b>	
CPU	CPU: PXA270, 32-bit and 520 MHz or compatible
Dual Watchdog Timer	Watchdog: Dual Watchdog Timer
RTC (Real Time Clock)	Gives hour, minute, sec, day of week, day of month, month & year, valid up from 1980 ~ 2079

SRAM	128 MB
Dual Battery Backup SRAM	512 KB (for 5 years data retain while power off)
FLASH	96 MB (64 MB for OS image, 31 MB for built-in Flash disk, 1 MB for registry)
Expansion Flash Memory	microSD socket with 16 GB flash card
EEPROM	16 KB, Data retention: 40 years. 1,000,000 erase/write cycles
I/O Slots	WP-8149: 1 slot (slot0); WP-8449: 4 slots (slot0 ~ slot3); WP-8849: 8 slots (slot0 ~ slot7); Accept High Profile I-8K Parallel & High Profile I-87K Serial I/O boards I/O Module Hot Swap Ability: for High Profile I-87K only
Rotary Switch	Yes (0~9)
LED, NET ID	1 programmable LED indicator. NET ID: From 1 ~ 255, set by software
Unique Serial Number	Yes, 64-bit hardware unique serial number
<b>Serial Ports</b>	
VGA Port	Yes, 64-bit hardware unique serial number
USB Port	one USB 1.1 Host ports for USB mouse, keyboard or USB drive
COM0	Internal communication with the I-87K High Profile modules in slots
COM1	RS-232 (RxD, TxD, and GND); Non-isolation; Speed: 115200 bps max.
COM2	RS-485 (D2+, D2-; self-tuner ASIC inside); 2500 VDC isolation for 1 slot controller and 3000 VDC isolation for 4/8 slots controller; Speed: 115200 bps max.
COM3	RS-232/RS-485 (RxD, TxD, CTS, RTS and GND for RS-232, DATA+ and DATA- for RS-485); Non-isolation; Speed: 115200 bps max. (WP-8149 has no COM3 & COM4.)
COM4	RS-232 (RxD, TxD, CTS, RTS, DSR, DTR, CD, RI and GND); Non-isolation; Speed: 115200 bps max. (WP-8149 has no COM3 & COM4.)
Dual Ethernet Ports	2 Ethernet Ports: LAN1 & LAN2, 10/100 Base-TX Ethernet Controller (Auto-negotiating, Auto MDI/MDI-X, LED indicator) Please use NS-205/NS-208 Industrial Ethernet Switch.

## Ordering Information

- WP-8149-EN** InduSoft based WinPAC-8000 with 1 I/O slot (English version of OS)
- WP-8449-EN** InduSoft based WinPAC-8000 with 4 I/O slots (English version of OS)
- WP-8849-EN** InduSoft based WinPAC-8000 with 8 I/O slots (English version of OS)