WinCon-8000

Programmable Automation Controller

Microsoft **Windows CE**.net

RISC CPU 206MHz
EEPROM/Flash/SDRAM
Real-Time Clock
Watchdog Timer
Hardware Unique S/N

10/100 Ethernet
USB
USB
Parallel Bus
I/O Expansion Slot LED Indicator

Reset Key

COM 2
(RS-232)

COM 3
(RS-485)

DC Power In

VGA
Compact Flash

LED Indicator

Config Rotary SW

Ethernet Port

Analog Input/Analog output
Current Loop
Digital Input/Digital output
Relay Output
Open Collector Output
Counter/Frequency

Operating Temperature.: -25°C ~ +55°C

Introduction

The WinCon-8000 is a leading edge embedded platform with Intel Strong ARM CPU running the Windows CE .NET operating system. When compared to the standard Windows OS, Windows CE .NET has some advantages, including hard real-time capability, small core size, fast boot speed, interrupt handling at a deeper level, achievable deterministic control and low cost. Windows CE .NET provides WinCon-8000 with the ability to run advanced application programs written in Visual Basic .NET, Visual C# .NET, Embedded Visual C++ and PC-based control software such as SCADA software, Soft PLC ...etc.

The WinCon-8000 includes a VGA port, allowing the user to choose a regular LCD monitor without the need for an expensive HMI or Industrial PC. WinCon-8000 is a cost-effective choice as a replacement for a regular PC or PLC based control system.

The operating system is resident in the flash memory of the WinCon-8000 CPU module. User programs and data can be saved in external storage areas, such as Compact Flash Cards and USB mass sturage or uploaded to RAM at run time through the LAN or USB. The iPush server provides real-time transmit function and lets WinCon-8000 has the ability of sending out data itself and can send acquisitive data such as monitoring data/alarm/device status to remote devices successively through TCP/IP constructions (Wireless LAN / VPN / Internet / GPRS).An SDK, used to control the I-8000 and I-7000 series I/O modules is provided for easy development of user applications using Visual Basic .NET, Visual C# or Embedded Visual C++. The included WinCon Utility is a convenient tool that enables system configuration, monitoring and software updates.
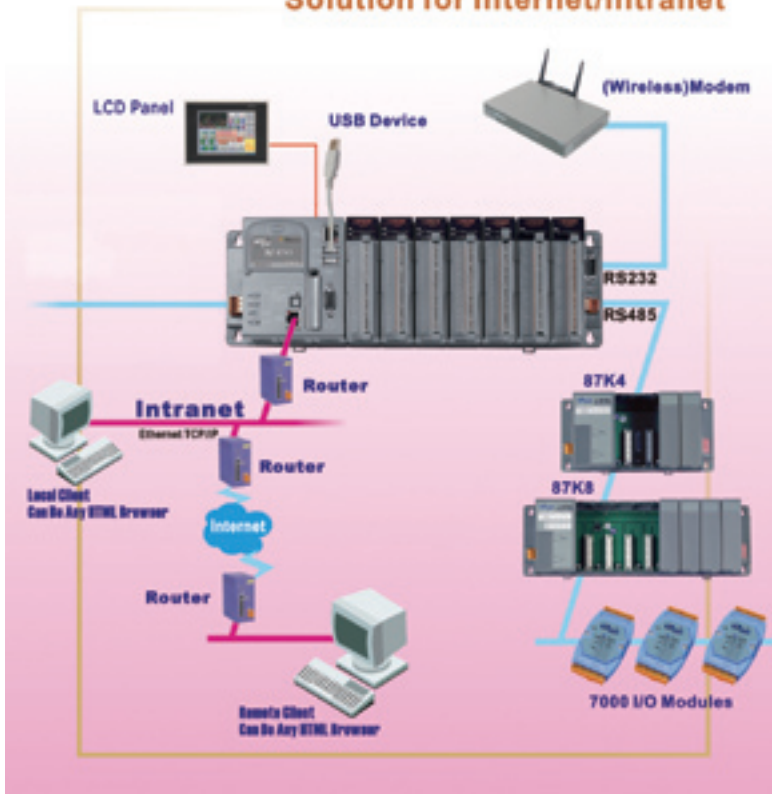
WinCon-8000

Programmable Automation Controller

Key Specifications & Features

· Intel Strong ARM CPU
· Windows CE .NET built-in
· Supports VGA , Ethernet, USB, Keyboard, Mouse, Compact Flash
· OPC server support
· Industrial Modbus/TCP, RTU Protocol Compliant
· Convenient utility for system configuration, monitoring and software upgrade
· Wide range of I/O modules: DI, DO, AI, AO, Counter/Frequency, Motion control...etc.
· Various access target such as Excel, mobile phone, PDA, terminals
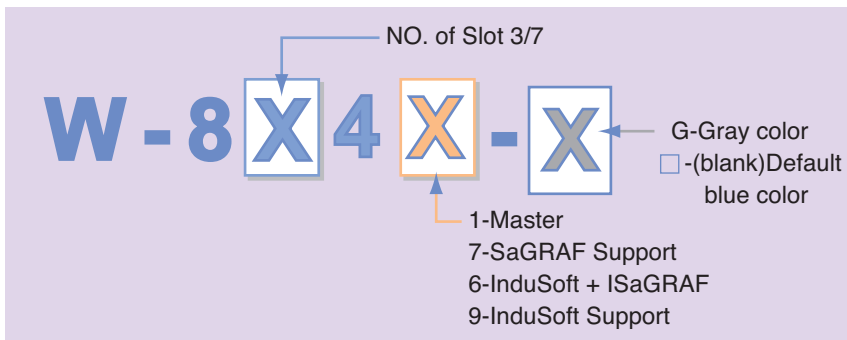
Small and Powerful

Solution for Internet/Intranet

WinCon-8000 *PAC*

Main Control Unit (MCU)

The MCU is the powerhouse of the 8000. Each MCU comprises a Central Processor Module(CPM), a power supply, a three (3) or seven (7) slot backplane for either 3 or 7 Parallel or Serial I/O modules. ICP DAS invents the customized version of non-slot structure for networked integration and narrow industrial environment.The CPM is a powerful integrated processing engine comprising a CPU, RAM, ROM and Ethernet.

NO. of Slot 3/7

W - 8 X 4 X - X

G-Gray color
☐-(blank)Default blue color

1-Master
7-SaGRAF Support
6-InduSoft + ISaGRAF
9-InduSoft Support

WinCon-8000 Main Control Unit Selection Guide

Model	Description	CPU Speed	Embedded OS	Slot	Flash	SDRAM	Peripherals
W-8341-G	PAC	206MHz	Windows CE.NET	3	32 Mbyte	64 Mbyte	Ethernet Portx2 VGA Portx1 CF Slotx1 USBx2 RS-232x1 RS-485x1
W-8741-G				7			
W-8347-G	ISaGRAF PAC	206MHz	Windows CE.NET	3	32 Mbyte	64 Mbyte	
W-8747-G				7			
W-8349-G	InduSoft PAC	206MHz	Windows CE.NET	3	32 Mbyte	64 Mbyte	
W-8749-G				7			
W-8346-G	InduSoft + ISaGRAF PAC	206MHz	Windows CE.NET	3	32 Mbyte	64 Mbyte	
W-8746-G				7			

WinCon-8000 **InduSoft PAC**
PAC

What is InduSoft ?

InduSoft Web Studio is a powerful, integrated collection of automation tools that includes all the building blocks required to develop modern Human Machine Interfaces (HMI), and Supervisory Control and Data Acquisition System (SCADA) applications that run natively on Windows XP, 2000, NT and CE .NET or in an Internet and Intranet environment. A simple drag and drop, point and click development environment mimics the most complex behavior of your live processes. InduSoft Web Studio is the most ideal E-Automation solution available in the industry.

InduSoft HMI/ SCADA software and automation technology can be used for:
· Monitoring: alarm monitoring, event monitoring, real time monitoring
· Control: Quality Control, Motion control, Statistical Process Control, Automation Control
· Measurement Software
· Automation: Building Automation, Process Automation, Plant Automation, Manufacturing Automation, Factory Automation Systems
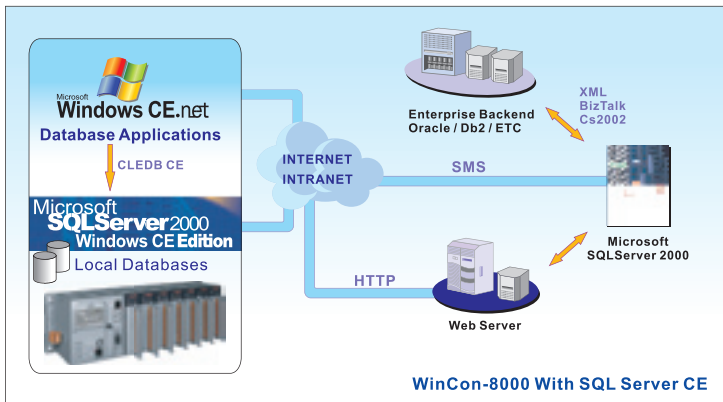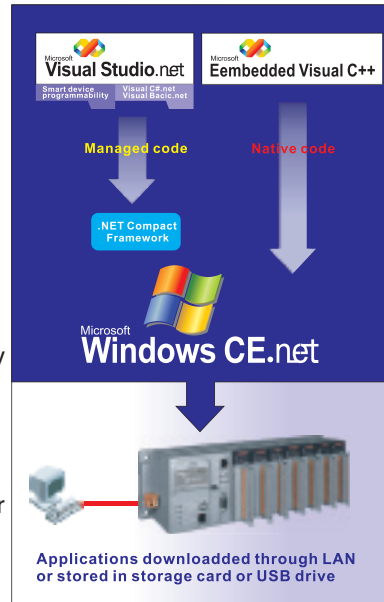· SCADA applications: SCADA Communication, SCADA Real Time System

The WinCon-8000 and InduSoft Integration Application

The WinCon-8000 InduSoft PAC provides a bundled driver to integrate the application performance and the easy to use of software and hardware. It can operate as an intelligent distributed data acquisition front end connected to a Host machine running a standard SCADA package. The user can develop SCADA applications on a PC then download and apply them to the WinCon-8000 InduSoft PAC. In addition, InduSoft Web Studio allows you to save your application screens in HTML format and export them from Wincon-8000 HTTP server for use with Internet Browsers (Internet Explorer).

WinCon-8000

Application Development Support

- HATL, ActiveX Component and MFC for Windows CE
- Embedded Visual C++
- Visual Basic .NET and Visual C#
- WinCon-8000 SDK to control I-8000 I/O modules
- OPC server and Modbus/TCP Protocol
- RS-232/485 Device Connection
- HTTP server, FTP server and web-based automation/control application development
- SQL Server CE and connectivity to ERP
- WinCon-8000 system configuration utility
- Remote management utility
- Integrated SCADA/HMI S/W or User's AP via Modbus/TCP Driver, ActiveX Component or Modbus/TCP OPC Server
- Database application development
- ADOCE/OLEDBCE, ADO.NET
- Robust connectivity to ERP including HTTP, IIS, RDA, Replication

Microsoft **Visual Studio.net**
Smart device programmability
Visual C#.net
Visual Bacic.net

Microsoft **Eembedded Visual C++**

Managed code   Native code

.NET Compact Framework

Microsoft **Windows CE.net**

Applications downloadded through LAN or stored in storage card or USB drive

Microsoft **Windows CE.net**
Database Applications
CLEDB CE

Microsoft **SQLServer** 2000 **Windows CE Edition**
Local Databases

INTERNET INTRANET

Enterprise Backend Oracle / Db2 / ETC

XML BizTalk Cs2002

SMS

HTTP

Web Server

Microsoft SQLServer 2000

WinCon-8000 With SQL Server CE

WinCon-8X4X *Dual-LAN PAC*

Windows CE.net
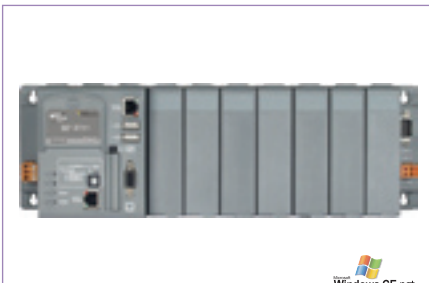
Specifications & Features

Ordering Information:
W-8341-G: Compact PAC

Ordering Information:
W-8741-G: Compact PAC

· Intel Strong ARM CPU, 206MHz
· SDRAM: 64M bytes
· Flash : 32M bytes
· EEPROM: 16K bytes
· 64-bit hardware unique serial number
· Built-in Watchdog Timer
· Real-Time Clock
· 10/100 BaseT x 2
· VGA port:
   320x240x16 to 1024x768x16
   Default is 640x480x16
· 1 x Compact Flash type II insert with ejector
· USB 1.1 x 2
· Reset button & rotate switch
· Power LEDs
· COM0: Internal use
· COM2: RS-232
· COM3: RS-485
· COM1: Serial Control for 87K Series
· I/O Expansion Slot:
   W-8341: 3 slots, W-8741: 7 slots
· Power Supply:
   20W, Unregulated +10Vdc to +30Vdc
· Operating Temp.: -25°C to +55°C
· Storage Temp.: -30°C to +85°C
· Humidity: 5~95%
· Dimensions (LxHxD)(mm):
   229 x 110 x 90(W-8341)
   354 x 110 x 90(W-8741)

Option
 · DM-64T:6.4" LCD Module
 · DM-121D-AL:12.1" LCD monitor
 · NS-205: 5-Port Industrial 10/100 Base-TX Ethernet Switch
 · NS-208: 8-Port Industrial 10/100 Base-TX Ethernet Switch

Note: Please use NS-205 or NS-208 Industrial Ethernet Switch with Wincon-8x4x series of controllers.

WinCon-8X4X ISaGRAF/InduSoft PAC

Microsoft **Windows CE.net**

W-8347-G

W-8747-G

Microsoft **Windows CE.net**

Ordering Information:
ISaGRAF Dual-LAN PAC
W-8347-G: 3 slot I/O Expansion
W-8747-G: 7 slot I/O Expansion

Specifications & Features

· The same hardware specifications
  of WinCon-8341/8741
· The ISaGRAF Wincon target driver
  & target license are included
· Two Wincon-8x47/8x46 can be set
  up as Redundancy system. If one is
  damaged, the other one still works.
  More information at
  http://www.icpdas.com/faq/isagraf.htm
  "FAQ036"

Option
· DM-64T:6.4" LCD Module
· DM-121D-AL:12.1" LCD monitor
· NS-205: 5-Port Industrial 10/100
  Base-TX Ethernet Switch
· NS-208: 8-Port Industrial 10/100
  Base-TX Ethernet Switch
Note:
Please use NS-205 or NS-208 Industrial Ethernet
Switch with Wincon-8x4x series of controllers.

Specifications & Features

· The same hardware specifications
  of WinCon-8x41 series
· The W-8x49 has 300 tags runtime
  license with one driver and one web
  thin client.
· The W-8x49-G 1500 has 1500 tags
  runtime with 3 drivers and one web
  thin client.

W-8349-G

W-8749-G

Microsoft **Windows CE.net**

Ordering Information:
InduSoft Dual-LAN PAC
W-8349-G: 3 slot I/O Expansion
W-8749-G: 7 slot I/O Expansion

Option
· InduSoft-NT1500D: Local Interface
  development version for Windows
  NT/2000/XP (1500Tag, 3 drivers)
· InduSoft-CE1500D: Local Interface
  development version for Windows
  CE(CE View) (1500 Tags, 3 drivers)
· InduSoft-NT300D: Launch version for
  Windows NT/2000/XP(300Tag,3 drivers)
· InduSoft-CE300D: Launch version for
  Windows CE (300 Tags, 3 drivers)
· NS-205: 5-Port Industrial 10/100
  Base-TX Ethernet Switch
· NS-208: 8-Port Industrial 10/100
  Base-TX Ethernet Switch
Note:
Please use NS-205 or NS-208 Industrial Ethernet
Switch with Wincon-8x4x series of controllers.

LinCon-8000 *Linux PAC*
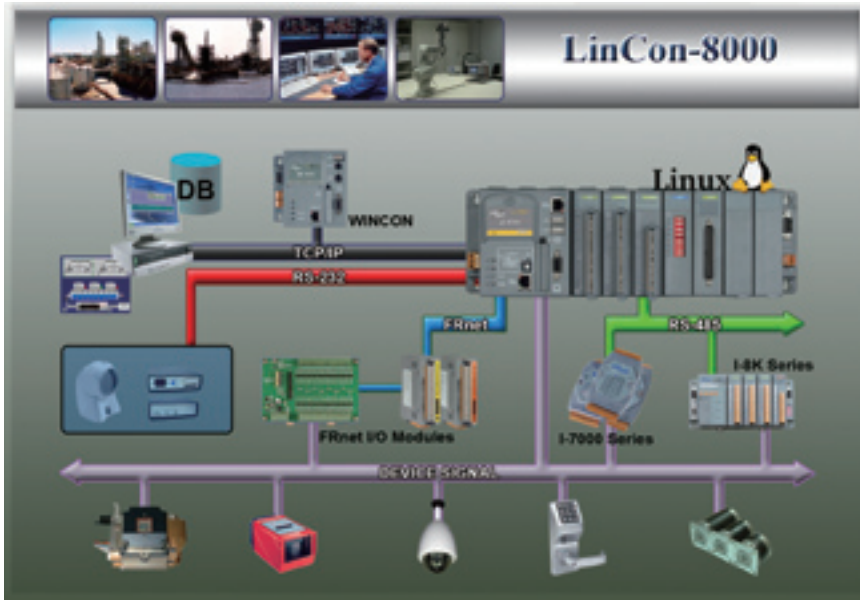
LinCon-8000 Series

The LinCon-8000 is the flagship compact embedded controller manufactured by ICP DAS. Its leading technology gives you all of the best features of both traditional PLCs and Linux capable PCs. The LinCon-8000 system is powered by Linux and brings in the Linux programming style and skill into the world of PC-based PLC. Application developers can develop their own programs directly into C or Java language by using the LinCon-8000 SDK, and then download them into the LinCon-8000 for application and use.

The Linux OS demands less system resources from the embedded controller and is therefore the best fit for it because of the embedded controller has some limitations in system resources. It is for this reason that the LinCon-8000 embbeded controller has been published to be a new generation product from ICP DAS and the Embedded-Linux OS has been adopted into the LinCon-8000. The LinCon-8000's main purpose is to allow the numerous enthusiastic linux users to control their own embedded systems easily within the Linux Environment.

Applications

· Factory automation
· Industrial machine control
· Maritime electronic
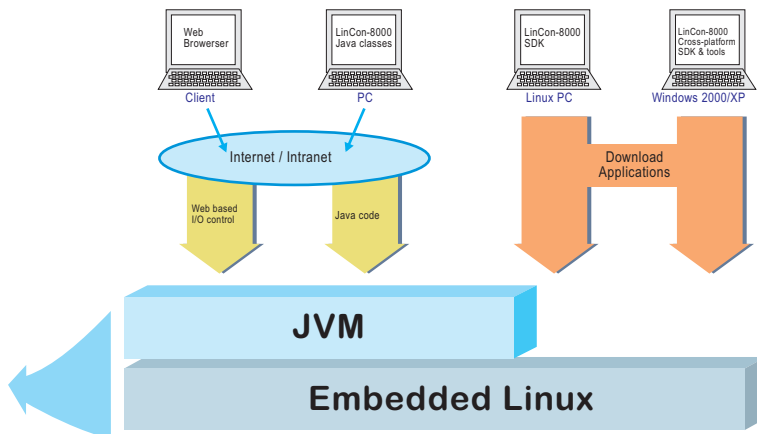· Building management system
· Aircraft engines

LinCon-8000 *Linux PAC*

NO. of Slot 3/7

L - 8 X 4 X X

G-Gray color
☐ -(blank)Default
blue color

1-Master
8-Matlab
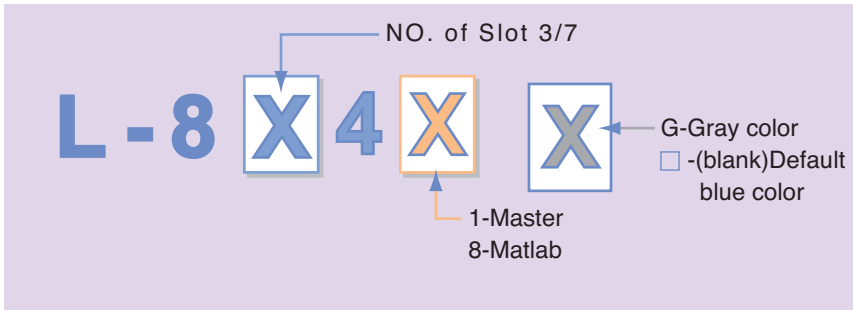
The LinCon-8000 model type is ruled as L-8X3X, as shown in the above figure. The Second number shows the slot numbers coming with the main controller unit. Currently, we provide three types of 3 and 7 slots. The last number demonstrates the application platform. 1 stands as the Master controller and it means that the user needs to design the application program by themselves. For more details on the product's specifications, please refer to the following product model table given below.

Software Specifications

· OS: Embedded Linux
· SDK For Accessing ICP DAS I/O modules
· Cross Platform SDK For Microsoft desktop OS
· X-Windows based Graphical User Interface
· Java Supported
· Built-in HTTP, FTP, TELNET, SSH and SFTP Servers
· I/O Expansion slot: 3/7

Web Browerser
Client

LinCon-8000 Java classes
PC

LinCon-8000 SDK
Linux PC

LinCon-8000 Cross-platform SDK & tools
Windows 2000/XP

Internet / Intranet

Download Applications

Web based I/O control

Java code

JVM

Embedded Linux

LinCon-8X4X **Dual-LAN PAC**

Specifications & Features

L-8341-G

L-8741-G *Linux*

Ordering Information:
L-8341-G: 3 slot I/O Expansion
L-8741-G: 7 slot I/O Expansion

· The same hardware specifications of WinCon-8341/8741
· Embedded Linux

Option

• DM-64T:6.4" LCD Module
• DM-121D-AL:12.1" LCD monitor
• NS-205: 5-Port Industrial 10/100 Base-TX Ethernet Switch
• NS-208: 8-Port Industrial 10/100 Base-TX Ethernet Switch

Note:
Please use NS-205 or NS-208 Industrial Ethernet Switch with Wincon-8x4x series of controllers.

Specifications & Features

L-8348-G

L-8748-G *Linux*

Ordering Information:
Matlab PAC
L-8348-G: 3 slot I/O Expansion
L-8748-G: 7 slot I/O Expansion

· The same hardware specifications of WinCon-8341/8741
· Embedded Linux
· Bulit-in Matlab runtime

Option

• DM-64T:6.4" LCD Module
• DM-121D-AL:12.1" LCD monitor
• NS-205: 5-Port Industrial 10/100 Base-TX Ethernet Switch
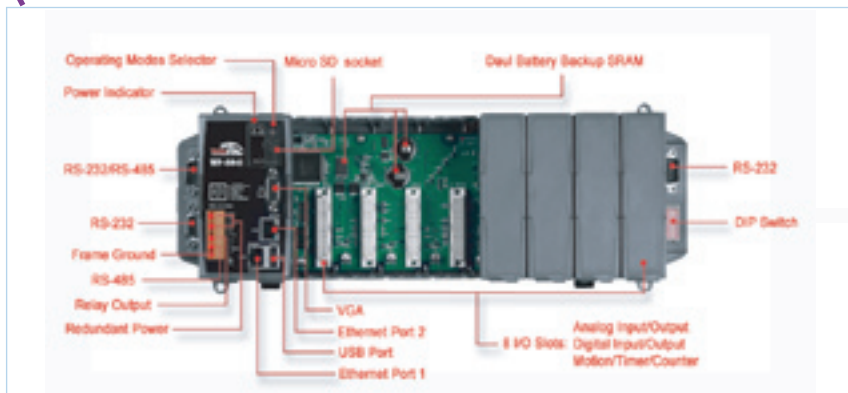• NS-208: 8-Port Industrial 10/100 Base-TX Ethernet Switch

Note:
Please use NS-205 or NS-208 Industrial Ethernet Switch with Wincon-8x4x series of controllers.

WinPAC-8000 Programmable Automation Controller

Microsoft
Windows CE.net

NEW!!

Introduction

WinPAC-8000 is the second generation PAC of ICP DAS. It equips a PXA270 CPU (520MHz) running a Windows CE .NET 5.0 operating system, variant connectivities (VGA, USB, Ethernet, RS-232/485) and 4/8 slots for high performance parallel I/O modules (high profile I-8K series) and serial-type I/O modules (high profile I-87K I/O modules).

Its operating system,Windows CE.NET, 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 in the WinPAC-8000 gives it the ability to run PC-based Control software such as Visual Basic .NET, Visual C#, Embedded Visual C++, SCADA software, Soft PLC …etc.

Comparing with the first generation WinCon-8000, it not only improves the CPU performance (from 206 MHz to 520 MHz) and upgrading OS (from CE 4.1 to CE 5.0), but also adds many reliability features, such as dual LAN, redundant power input, dual battery backup SRAM, etc. It gives you all of the best features of both traditional PLCs and Windows capable PCs.
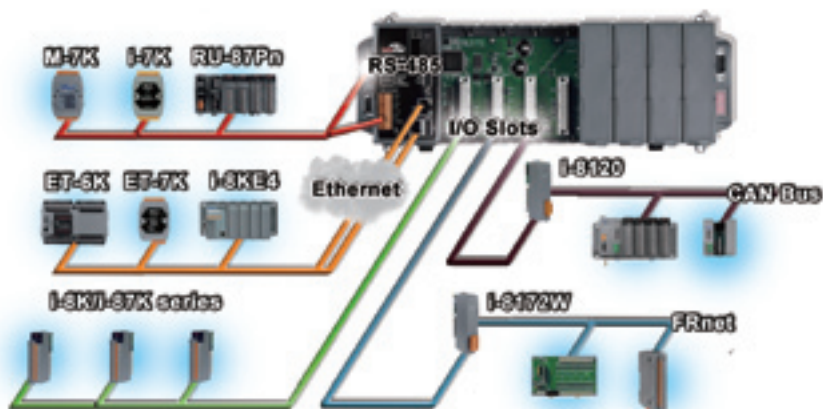
WinPAC-8000 Programmable Automation Controller

Windows CE.net

Key Specifications & Features

1. PXA270 CPU (520MHz) & 48MB Fash & 128MB SDRAM
2. Windows CE .Net 5.0
3. Built-in VGA Port
4. Remote Maintenance via FTP Server and VCEP Software
5. Built-In OPC Server (Quicker)
6. 64-bit Hardware Serial Number
7. Rich Software Solutions (VS.Net 2003, 2005 and eVC)
8. Upgrading applications from WinCon to WinPAC Just Copy and Play
9. I/O Module Hot Swap Ability
10. Rich I/O Expansion Ability (RS-232/485, Ethernet, FRnet, CAN)
11. Built-In Flash Disk (14MB)
12. Dual Watchdog Timer
13. Dual Battery-Backup SRAM (512KB)
14. Dual Ethernet Ports
15. Redundant Power Inputs
16. Ventilated Housing Design Allows Operation Between -25˚C ~ +75˚C

WinPAC = IPC + PLC

WinPAC-8000

Programmable Automation Controller

Hardware Specifications

CPU module	
CPU	PXA270 or compatible (32-bit and 520MHz)
SDRAM	128MB
Dual Battery Backup SRAM	512K bytes (for 5 years data retain)
Flash	48MB (32MB for OS image, 14MB for built-in Flash disk, 2MB for registry)
EEPROM	2KB
Expansion Flash Memory	Micro SD socket with 1GB flash card
RTC (real time clock)	Year-2000 compliance; seconds, minutes, hours, date of the month; month, year, valid up from 1980 to 2079
64-bit Hardware Serial Number	Yes
Dual Watchdog Timer	Yes
Rotary Switch	Yes (0~9)
DIP Switch	Yes (8 bits); (for WP-844x and WP-884x only)
Connectivity	
VGA	1 (800x600 resolution)
Ethernet Port	2 10/100Base-TX Ethernet Controller (Auto-negotiating, Auto_MDIX, LED indicator)
USB 1.1 (host)	1
COM ports	5; (COM3 and COM4 for WP-8441 and WP-8841 only) COM0=internal use for I-87K modules in slot, COM1=RS-232, COM2=RS-485, COM3=RS-232/485, COM4=RS-232
Dimensions	
WP-8041	64mm x 132mm x 98mm
WP-8141	95mm x 132mm x 98mm
WP-8441	230mm x 132mm x 98mm
WP-8841	354mm x 132mm x 98mm
Operating Environment	
Operating Temperature	–25°C to +75°C
Storage Temperature	–30°C to +85°C
Humidity	5 ~ 95%, non-condensing
Power	
Input Range	+10V ~ +30VDC
Isolation	1KV
Redundant Power Inputs	Yes

WinPAC-8000

Programmable Automation Controller

WinPAC-8000 Naming
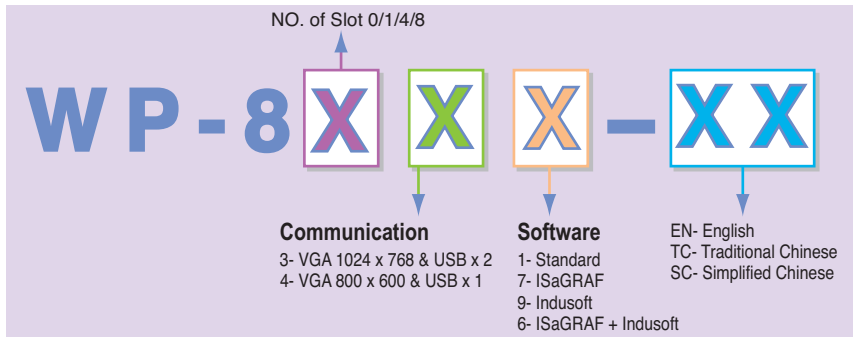
NO. of Slot 0/1/4/8

W P - 8 X X X – X X

Communication
3- VGA 1024 x 768 & USB x 2
4- VGA 800 x 600 & USB x 1

Software
1- Standard
7- ISaGRAF
9- Indusoft
6- ISaGRAF + Indusoft

EN- English
TC- Traditional Chinese
SC- Simplified Chinese

Selection Guide

Model	Software Pre-Installed	OS	CPU	Flash	SDRAM	VGA Resolution	USB	I/O slot
*WP-8031	None	CE 5.0	520 MHz	48MB	128 MB	1024 x 768	2	0
*WP-8131	None	CE 5.0	520 MHz	48MB	128 MB	1024 x 768	2	1
*WP-8431	None	CE 5.0	520 MHz	48MB	128 MB	1024 x 768	2	4
*WP-8831	None	CE 5.0	520 MHz	48MB	128 MB	1024 x 768	2	8
*WP-8037	ISaGRAF	CE 5.0	520 MHz	48MB	128 MB	1024 x 768	2	0
*WP-8137	ISaGRAF	CE 5.0	520 MHz	48MB	128 MB	1024 x 768	2	1
*WP-8437	ISaGRAF	CE 5.0	520 MHz	48MB	128 MB	1024 x 768	2	4
*WP-8837	ISaGRAF	CE 5.0	520 MHz	48MB	128 MB	1024 x 768	2	8
*WP-8039	Indusoft	CE 5.0	520 MHz	48MB	128 MB	1024 x 768	2	0
*WP-8139	Indusoft	CE 5.0	520 MHz	48MB	128 MB	1024 x 768	2	1
*WP-8439	Indusoft	CE 5.0	520 MHz	48MB	128 MB	1024 x 768	2	4
*WP-8839	Indusoft	CE 5.0	520 MHz	48MB	128 MB	1024 x 768	2	8
WP-8041	None	CE 5.0	520 MHz	48MB	128 MB	800 x 600	1	0
WP-8141	None	CE 5.0	520 MHz	48MB	128 MB	800 x 600	1	1
WP-8441	None	CE 5.0	520 MHz	48MB	128 MB	800 x 600	1	4
WP-8841	None	CE 5.0	520 MHz	48MB	128 MB	800 x 600	1	8
WP-8047	ISaGRAF	CE 5.0	520 MHz	48MB	128 MB	800 x 600	1	0
WP-8147	ISaGRAF	CE 5.0	520 MHz	48MB	128 MB	800 x 600	1	1
WP-8447	ISaGRAF	CE 5.0	520 MHz	48MB	128 MB	800 x 600	1	4
WP-8847	ISaGRAF	CE 5.0	520 MHz	48MB	128 MB	800 x 600	1	8
WP-8049	Indusoft	CE 5.0	520 MHz	48MB	128 MB	800 x 600	1	0
WP-8149	Indusoft	CE 5.0	520 MHz	48MB	128 MB	800 x 600	1	1
WP-8449	Indusoft	CE 5.0	520 MHz	48MB	128 MB	800 x 600	1	4
WP-8849	Indusoft	CE 5.0	520 MHz	48MB	128 MB	800 x 600	1	8

* : WP-8x3x will be available soon.

WinPAC-8000 **Programmable Automation Controller**

Selection Guide

| Model	Software Pre-Installed	OS	CPU	Flash	SDRAM	VGA Resolution	USB	I/O slot
*WP-8036	ISaGRAF + Indusoft	CE 5.0	520 MHz	48MB	128 MB	1024 x 768	2	0
*WP-8136	ISaGRAF + Indusoft	CE 5.0	520 MHz	48MB	128 MB	1024 x 768	2	1
*WP-8436	ISaGRAF + Indusoft	CE 5.0	520 MHz	48MB	128 MB	1024 x 768	2	4
*WP-8836	ISaGRAF + Indusoft	CE 5.0	520 MHz	48MB	128 MB	1024 x 768	2	8
WP-8046	ISaGRAF + Indusoft	CE 5.0	520 MHz	48MB	128 MB	800 x 600	1	0
WP-8146	ISaGRAF + Indusoft	CE 5.0	520 MHz	48MB	128 MB	800 x 600	1	1
WP-8446	ISaGRAF + Indusoft	CE 5.0	520 MHz	48MB	128 MB	800 x 600	1	4
WP-8846	ISaGRAF + Indusoft	CE 5.0	520 MHz	48MB	128 MB	800 x 600	1	8

* : WP-8x3x will be available soon.

Software Selection Guide

Item	Description
ISaGRAF-256-E	ISaGRAF Workbench Software, Up to 256 I/O Tags + one ISaGRAF Book-E (English)
ISaGRAF-256-C	ISaGRAF Workbench Software, Up to 256 I/O Tags+ one ISaGRAF Book-C (Chinese)
ISaGRAF-256	ISaGRAF Workbench Software, Up to 256 I/O Tags
InduSoft-NT1500D	Local Interface development version for Windows NT/2000/XP (1500Tag, 3 drivers)
InduSoft-CE1500D	Local Interface development version for Windows CE(CE View) (1500 Tags, 3 drivers)
InduSoft-NT300D	Launcht version for Windows NT/2000/XP(300Tag, 3 drivers)
InduSoft-CE300D	Launch version for Windows CE (300 Tags, 3 drivers)

LinPAC-8000 *Linux PAC*

NEW!!
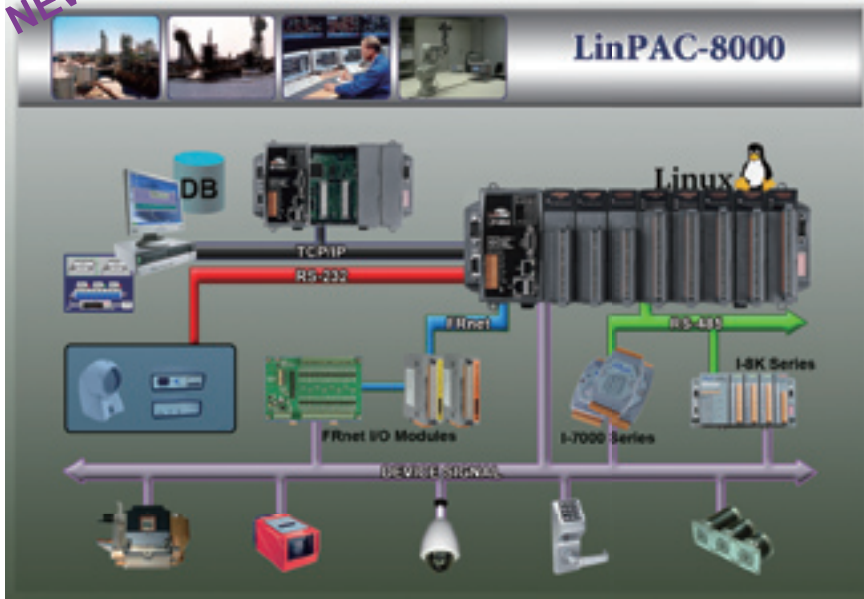
LinPAC-8000 Series

   LinPAC-8000 series is the second generation Linux based PAC of ICP DAS. Its leading technology gives you all of the best features of both traditional PLCs and Linux capable PCs. The LinPAC-8000 system is powered by Linux and brings in the Linux programming style and skill into the world of PC-based PLC. Application developers can develop their own programs directly into C or Java language by using the LinPAC-8000 SDK, and then download them into the LinPAC-8000 for application and use.

   The Linux OS demands less system resources from the embedded controller and is therefore the best fit for it because of the embedded controller has some limitations in system resources. It is for this reason that the LinCon-8000 embbeded controller has been published to be a new generation product from ICP DAS and the Embedded-Linux OS has been adopted into the LinPAC-8000. The LinPAC-8000's main purpose is to allow the numerous enthusiastic linux users to control their own embedded systems easily within the Linux Environment.
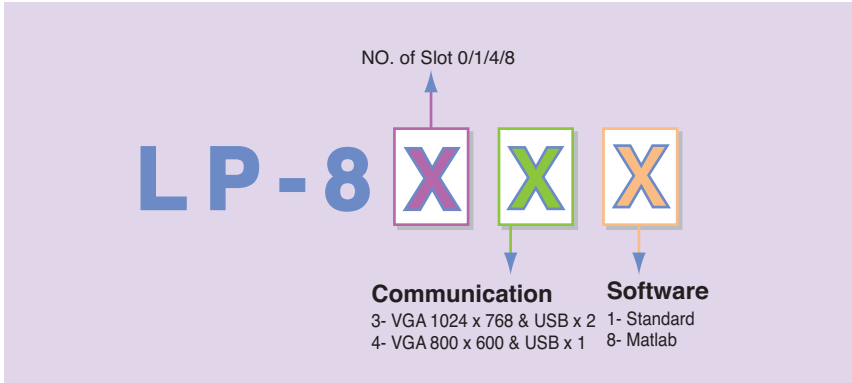
Applications

· Factory automation
· Industrial machine control
· Maritime electronic
· Building management system
· Aircraft engines

LinPAC-8000
Programmable Automation Controller

LinPAC-8000 Naming

NO. of Slot 0/1/4/8

L P - 8 X X X

Communication
3- VGA 1024 x 768 & USB x 2
4- VGA 800 x 600 & USB x 1

Software
1- Standard
8- Matlab

Selection Guide

Model	Software Pre-Installed	OS	CPU	Flash	SDRAM	VGA Resolution	USB	I/O slot
✱LP-8031	None	Linux	520 MHz	48MB	128 MB	1024 x 768	2	0
✱LP-8131	None	Linux	520 MHz	48MB	128 MB	1024 x 768	2	1
✱LP-8431	None	Linux	520 MHz	48MB	128 MB	1024 x 768	2	4
✱LP-8831	None	Linux	520 MHz	48MB	128 MB	1024 x 768	2	8
✱LP-8038	Matlab runtime	Linux	520 MHz	48MB	128 MB	1024 x 768	2	0
✱LP-8138	Matlab runtime	Linux	520 MHz	48MB	128 MB	1024 x 768	2	1
✱LP-8438	Matlab runtime	Linux	520 MHz	48MB	128 MB	1024 x 768	2	4
✱LP-8838	Matlab runtime	Linux	520 MHz	48MB	128 MB	1024 x 768	2	8
LP-8041	None	Linux	520 MHz	48MB	128 MB	800 x 600	1	0
LP-8141	None	Linux	520 MHz	48MB	128 MB	800 x 600	1	1
LP-8441	None	Linux	520 MHz	48MB	128 MB	800 x 600	1	4
LP-8841	None	Linux	520 MHz	48MB	128 MB	800 x 600	1	8
LP-8048	Matlab runtime	Linux	520 MHz	48MB	128 MB	800 x 600	1	0
LP-8148	Matlab runtime	Linux	520 MHz	48MB	128 MB	800 x 600	1	1
LP-8448	Matlab runtime	Linux	520 MHz	48MB	128 MB	800 x 600	1	4
LP-8848	Matlab runtime	Linux	520 MHz	48MB	128 MB	800 x 600	1	8

✱ : LP-8x3x will be available soon.

KinPAC-8000 *KW PAC*

Introduction

The ICP DAS KinPAC-8000 (KP-8045/KP-8145/KP-8445/KP-8845) is a Windows CE.NET based SoftLogic PAC(Programmable Automation Controller) which bundles KW-Software solution inside. It features:

■ MultiProg-standard IEC-61131 programming system

The programming system is based on a modern 32 bit windows technology, providing comfortable handling including zoom, drag & drop and dockable windows. The system allows the handling of IEC configuration elements, including libraries and provides a powerful debug system. The programming system consists of a PLC independent kernel for programming in the various IEC programming languages. To do so, the textual languages ST and IL as well as the graphical languages LD, FDB and SFC are provided.

■ ProVisit-the machine visualization tool

Using it, visualizations are created intuitively within the graphical editor which provides a large number of standard objects and dynamizations for example Size, Position, Rotation, Color changes and different Actions.
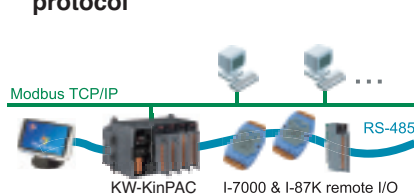
■ **Built-in Windows CE.net real-time multitasking system**

■ **Supports retain variables & battery backup memory**

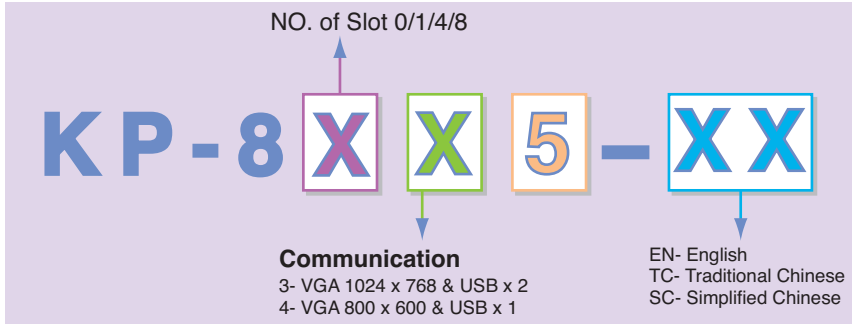■ **Omline change function**

■ **Support Multi RS-485 ports**

■ **Supports Modbus TCP/IP Slave protocol**

■ **Dual Ethernet ports**

Modbus TCP/IP

RS-485

KW-KinPAC   I-7000 & I-87K remote I/O

KinPAC-8000 KW PAC

KinPAC-8000 Naming

NO. of Slot 0/1/4/8

K P - 8 X X 5 – X X

Communication
3- VGA 1024 x 768 & USB x 2
4- VGA 800 x 600 & USB x 1

EN- English
TC- Traditional Chinese
SC- Simplified Chinese

Selection Guide

Model	Software Pre-Installed	OS	CPU	Flash	SDRAM	VGA Resolution	USB	I/O slot
∗KP-8035	KW runtime	CE 5.0	520 MHz	48MB	128 MB	1024 x 768	2	0
∗KP-8135	KW runtime	CE 5.0	520 MHz	48MB	128 MB	1024 x 768	2	1
∗KP-8435	KW runtime	CE 5.0	520 MHz	48MB	128 MB	1024 x 768	2	4
∗KP-8835	KW runtime	CE 5.0	520 MHz	48MB	128 MB	1024 x 768	2	8
KP-8045	KW runtime	CE 5.0	520 MHz	48MB	128 MB	800 x 600	1	0
KP-8145	KW runtime	CE 5.0	520 MHz	48MB	128 MB	800 x 600	1	1
KP-8445	KW runtime	CE 5.0	520 MHz	48MB	128 MB	800 x 600	1	4
KP-8845	KW runtime	CE 5.0	520 MHz	48MB	128 MB	800 x 600	1	8

∗ : KP-8x3x will be available soon.

Option
‧ NS-205: 5-Port Industrial 10/100 Base-TX Ethernet Switch
‧ NS-208: 8-Port Industrial 10/100 Base-TX Ethernet Switch

Note: Please use NS-205 or NS-208 Industrial Ethernet Switch with KinPAC-8000 series of controller

Software Selection Guide

Model	Description
MultiProg 4.0	KW-software MultiProg 4.0 IEC 61131 programming system for windows 2000/XP
OPC-Server 2.0	KW-software OPC-Server 2.0 software
ProVisit 2.3	KW-software ProVisit 2.3 machine visualization