

Features

- PXA270, 520 MHz CPU
- Linux kernel 2.6 Inside
- Embedded Service: Web Server, FTP Server, Telnet Server, SSH Server
- 1/4/8 Slots for High Profile I/O Modules
- Dual 10/100M Ethernet Ports
- 2/4 Serial Ports (RS-232/485)
- Redundant Power Inputs
- Operating Temperature: -25 ~ +75°C



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Compact PAC

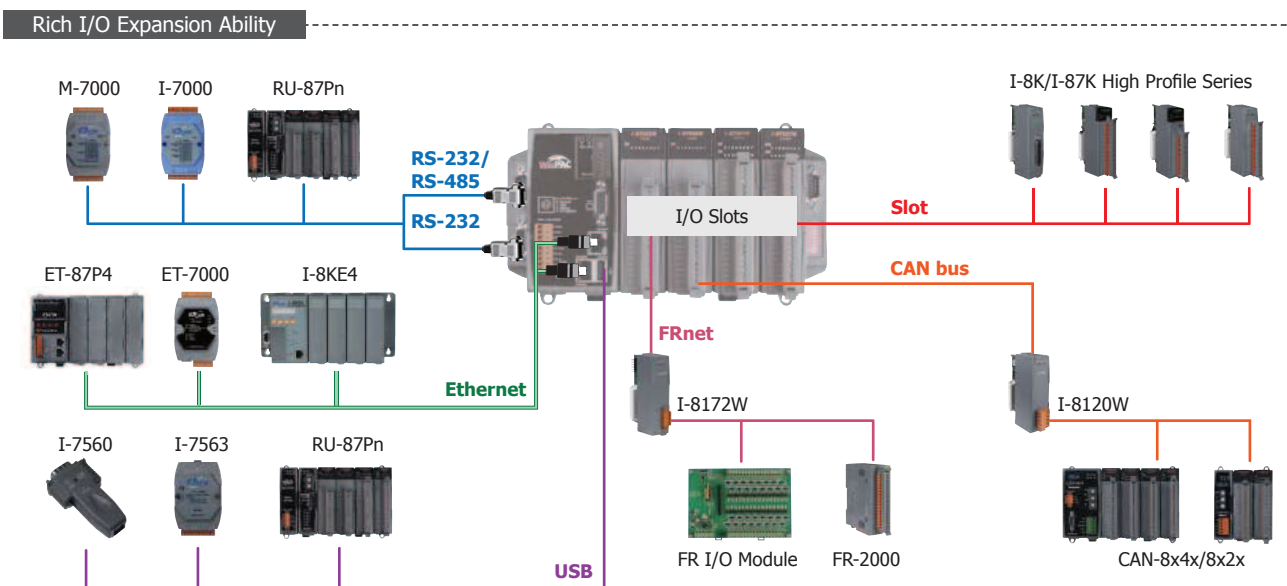
Introduction

LinPAC-8000 is the new generation Linux-based PAC (Programmable Automation Controller) from ICP DAS and is equipped with a PXA270 CPU (520 MHz) running a Linux kernel 2.6 operation system, multiple communication interfaces (VGA, USB, Ethernet and RS-232/485) and 1/4/8 slots for high performance parallel I/O modules (high profile I-8K series) and serial I/O modules (high profile I-87K series).



Main advantage of the LinPAC-8000 is its high quality control system, including its stably properties, open source and the standard LinPAC SDK for Windows and Linux using the GNU C language, GUI software. The main purpose of LinPAC-8000 is to allow the numerous enthusiastic Linux users to control their own embedded system easily within the Linux environment.

Applications



Specifications

Models	LP-8131	LP-8431	LP-8831	LP-8141	LP-8441	LP-8841
System Software						
OS	Linux kernel 2.6					
Embedded Service	Web Server, FTP Server, Telnet Server, SSH Server					
SDK Provided	Standard LinPAC SDK for Windows and Linux by GNU C language					
CPU Module						
CPU	PXA270, 520 MHz					
SDRAM	128 MB					
Dual Battery Backup SRAM	512 KB; data valid up to 5 years					
Flash	128 MB			48 MB		
EEPROM	16 KB					
Expansion Flash Memory	microSD socket with one 2 GB microSD card (support up to 16 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					
Programmable LED Indicator	1					
Rotary Switch	Yes (0 ~ 9)					
DIP Switch	-	Yes (8 bits)				
VGA & Communication Ports						
VGA	VGA	Yes, with one extra GPU			Yes	
	Resolution	1024 x 768, 800 x 600, 640 x 480			800 x 600, 640 x 480	
Ethernet	RJ-45 x 2, 10/100 Base-TX (Auto-negotiating, Auto MDI/MDI-X, LED indicators)					
USB 1.1 (host)	2			1		
COM 0	Internal communication with the high profile I-87K series modules in slots					
COM 1	RS-232 (to update firmware) (Rx/D, Tx/D and GND); non-isolated					
COM 2	RS-485 (Data+, Data-); 2500 V _{dc} isolated	RS-485 (Data+, Data-); 3000 V _{dc} isolated		RS-485 (Data+, Data-); 2500 V _{dc} isolated	RS-485 (Data+, Data-); 3000 V _{dc} isolated	
COM 3	-	Yes		-	Yes	
COM 4	-	Yes		-	Yes	
RS-232 (Rx/D, Tx/D, CTS, RTS and GND for RS-232, Data+ and Data- for RS-485); non-isolated						
I/O Expansion Slots						
Slot Number	1	4	8	1	4	8
Note: For High Profile I-8K and I-87K Modules Only						
Mechanical						
Dimensions (W x L x H)	91 mm x 132 mm x 52 mm: LP-8131, LP-8141 231 mm x 132 mm x 111 mm: LP-8431, LP-8441 355 mm x 132 mm x 111 mm: LP-8831, LP-8841					
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	30 W	30 W	8 W	30 W	30 W
Consumption	7.3 W	9.1 W	9.6 W	7.3 W	9.1 W	9.6 W

Ordering Information

LP-8131-EN	LP-8141-EN	Standard LinPAC-8000 with 1 I/O Slot (English Version of OS)
LP-8431-EN	LP-8441-EN	Standard LinPAC-8000 with 4 I/O Slots (English Version of OS)
LP-8831-EN	LP-8841-EN	Standard LinPAC-8000 with 8 I/O Slots (English 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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