

LP-8141/LP-8441/LP-8841

1/4/8-slot Linux Based PAC with PXA270 CPU

Features

- Linux kernel 2.6 Inside
- PXA270, 520 MHz CPU
- 128 MB SDRAM and 96 MB Flash
- 512 MB Battery-backup SRAM for data retention
- Dual 10/100M Ethernet Ports
- 64-bit Hardware Serial Number
- Rich I/O Expansion Ability (RS-232/RS-485, FRnet,CAN)
- Redundant Power Input
- Operating Temperature: -25 ~ +75 °C

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, JAVA and 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.

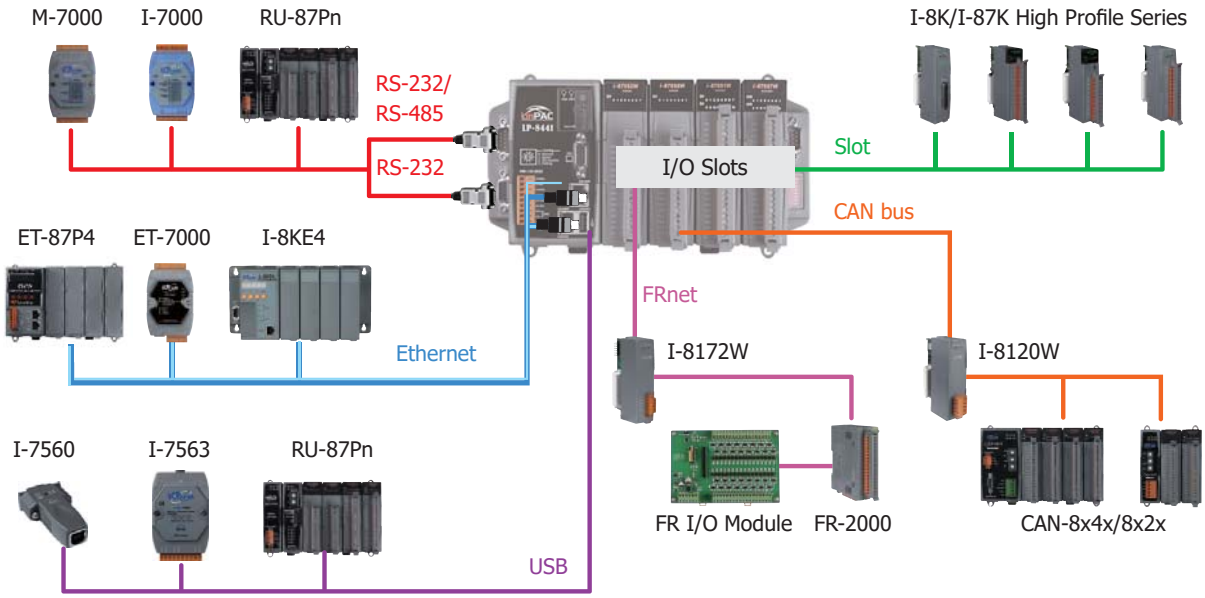
Linux Kernel OS



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.

- LinPAC SDK for Windows and Linux
- Support for GNU C Language
- Support for GUI: Using GTK + Library
- Support for USB to Serial Converter
- Support for DCON, Modbus and SNMP Protocols

Appications



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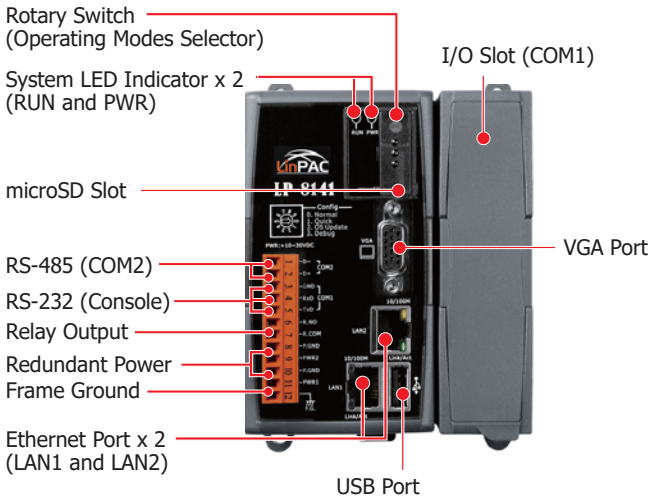
Specifications

Model	LP-8141	LP-8441	LP-8841
Software			
OS	Linux kernel 2.6		
Service	Web Server, FTP Server, Telnet Server, SSH Server		
SDK	Standard LinPAC SDK for Windows and Linux by GNU C language		
Main Unit			
CPU	PXA270 or compatible (32-bit and 520 MHz)		
SDRAM	128 MB		
Dual Battery Backup SRAM	512 KB		
Flash	96 MB		
EEPROM	16 KB		
Storage	4 GB miicroSD card (up to 32 GB)		
RTC (Real Time Clock)	Provide seconds, minutes, hours, dates, day of week, month, year		
64-bit Hardware Serial Number	Yes, for software copy protection		
Watchdog Timer	Dual Watchdog Timer		
Rotary Switch	1 x 10 Position (0 ~ 9)		
DIP Switch	-	Yes (8-bits)	
Display			
VGA Resolution	640 × 480, 800 × 600		
LED Indicators	1x Power, 1 x System/Programmable		
Communication Ports			
Ethernet	RJ-45 x 2, 10/100 Base-TX (Auto-negotiating, Auto MDI/MDI-X, LED indicators)		
USB 1.1 (host)	1		
COM0	Internal communication with the I-87K series modules in slots		
COM1	RS-232 (RxD, TxD and GND); non-isolated		
COM2	RS-485 (Data+, Data); 2500 VDC isolated	RS-485 (Data+, Data-); 3000 VDC isolated	
COM3	-	RS-232/485 (RxD, TxD, CTS, RTS and GND for RS-232; Data+, Data- for RS-485); Non-isolation	
COM4	-	RS-232 (RXD, TXD, CTS, RTS, DSR, DTR, CD, RI and GND); Non-isolation	
I/O Expansion			
I/O Type	I-8K, I-87K series		
Slots	1	4	8
Mechanical			
Dimension (W x L x H)	95 mm x 132 mm x 111 mm	231 mm x 132 mm x 111 mm	355 mm x 132 mm x 111 mm
Ingress Protection Rating	IP30 (Aluminum)		
Installation	DIN-Rail, Wall mounting		
Environmental			
Operating Temperature	-25 ~ +75 °C		
Storage Temperature	-30 ~ +80 °C		
Humidity	10 ~ 90 % RH, Non-condensing		
Power			
Input Range	+10 ~ +30 VDC (1 kV Isolated)		
Redundant Power Inputs	Yes, with one power relay (1 A @ 24 VDC) for alarm		
Consumption	7.3 W (0.3 A @ 24 VDC)	9.1 W (0.38 A @ 24 VDC)	9.6 W (0.4 A @ 24 VDC)

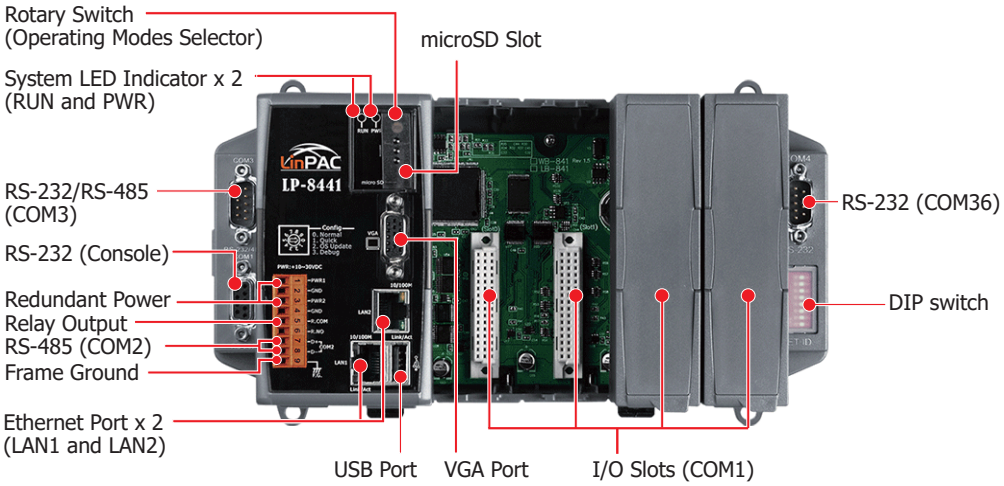
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Appearance

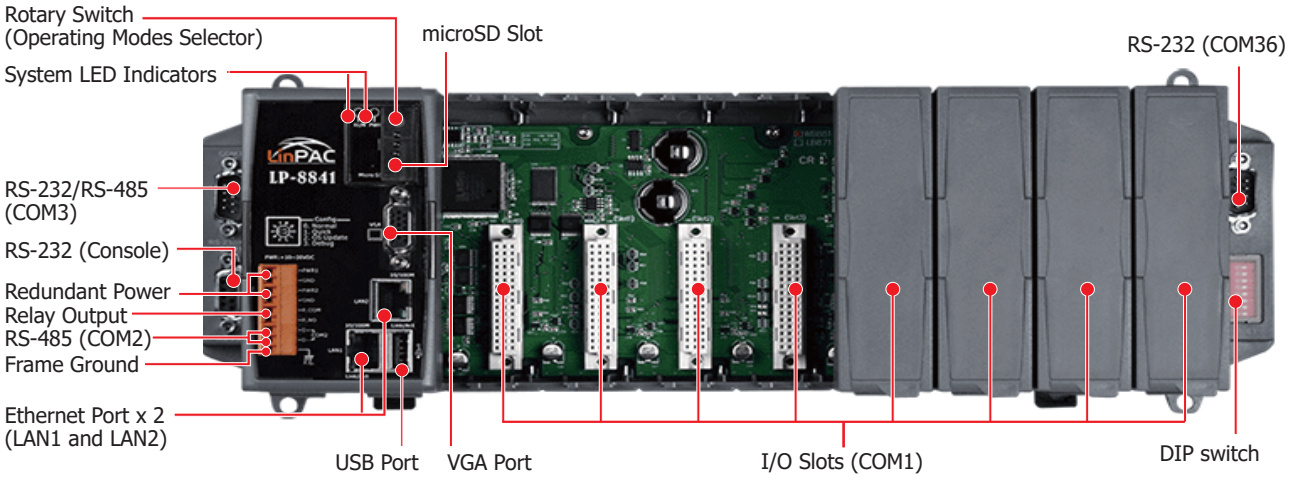
LP-8141



LP-8441



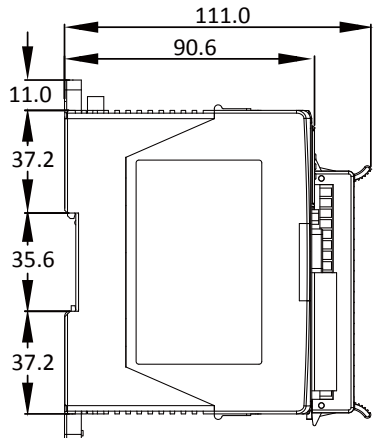
LP-8841



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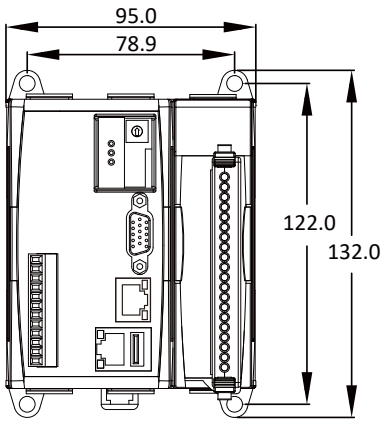
Dimensions (Units: mm)

LP-8141



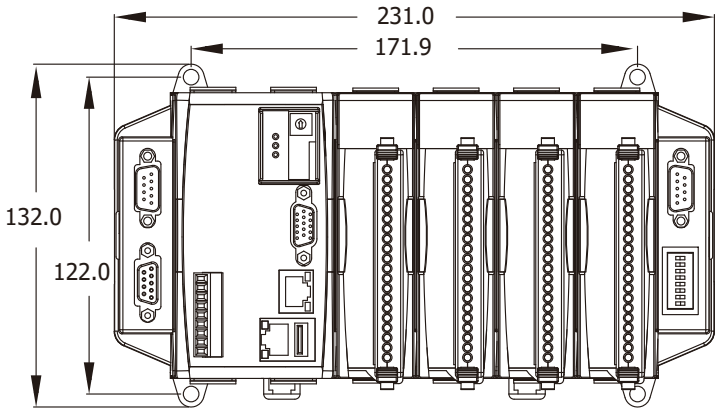
Left Side View

LP-8141



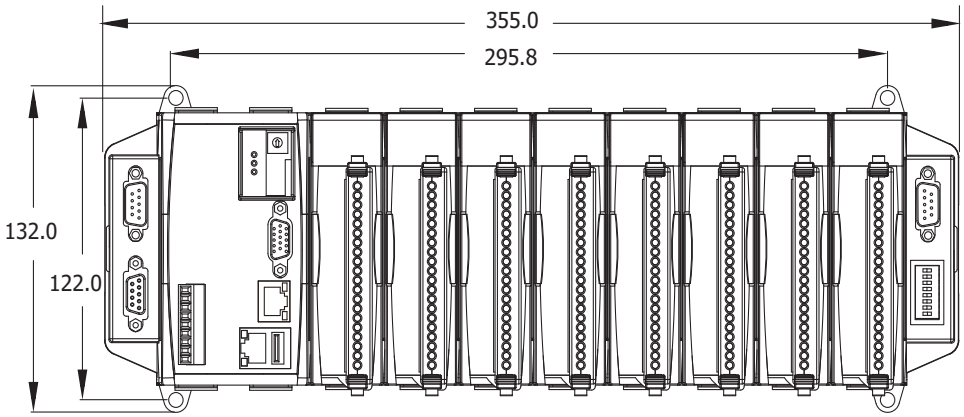
Front View

LP-8441



Front View

LP-8841



Front View

Ordering Information

LP-8141-EN CR	1-slot Linux Based PAC with PXA270 CPU (RoHS)
LP-8441-EN CR	4-slot Linux Based PAC with PXA270 CPU (RoHS)
LP-8841-EN CR	8-slot Linux Based PAC with PXA270 CPU (RoHS)

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