



LP-8141



LP-8441



LP-8841

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



Introduction

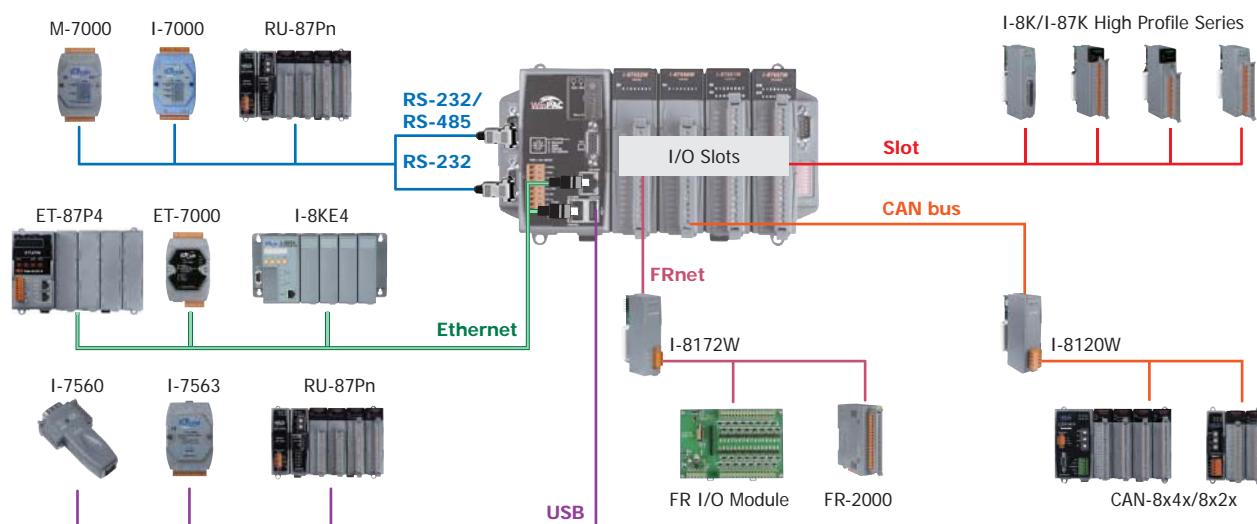
LinPAC-8000 is the new generation Linux-based PAC (Programmable Automation Controller) from ICP DAS and is equipped with a PXA270 CPU (520 MHz) running a Linux kernel 2.6 operation system, multiple communication interfaces (VGA, USB, Ethernet and RS-232/485) and 1/4/8 slots for high performance parallel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

Rich I/O Expansion Ability



Specifications

| Models | | 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 | | 96 MB | | |
| EEPROM | | 16 KB | | |
| Expansion Flash Memory | | microSD socket with one 4 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 | | |
| | Resolution | 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) | | 1 | | |
| COM 1 | | RS-232 (Rx/D, Tx/D and GND); non-isolated | | |
| COM 2 | | RS-485 (Data+, Data-); 2500 Vdc isolated | RS-485 (Data+, Data-); 3000 Vdc isolated | |
| COM 3 | | - | Yes | |
| | | RS-232/RS-485 (Rx/D, Tx/D, CTS, RTS and GND for RS-232, Data+ and Data- for RS-485); non-isolated | | |
| COM 4 | | - | Yes | |
| | | RS-232 (Rx/D, Tx/D, CTS, RTS, DSR, DTR, CD, RI and GND); non-isolated | | |
| I/O Expansion Slots | | | | |
| Slot Number | | 1 | 4 | 8 |
| | | Note: For High Profile I-8K and I-87K Modules Only | | |
| Mechanical | | | | |
| Dimensions (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 |
| 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 Vdc | | |
| Isolation | | 1 kV | | |
| Redundant Power Inputs | | Yes, with one power relay (1 A @ 24 Vdc) for alarm | | |
| Capacity | | 8 W | 30 W | 30 W |
| Consumption | | 7.3 W | 9.1 W | 9.6 W |

Ordering Information

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

Accessories

| | |
|--------------|---|
| DP-660 | 24 Vdc/2.5 A, 60 W and 5 Vdc/0.5 A, 2.5 W Power Supply with DIN-Rail Mounting |
| DP-1200 CR | 24 Vdc/5.0 A, 120 W Power Supply with DIN-Rail Mounting (RoHS) |
| MDR-60-24 CR | 24 Vdc/2.5 A, 60 W Power Supply with DIN-Rail Mounting (RoHS) |

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Compact PAC