



Features

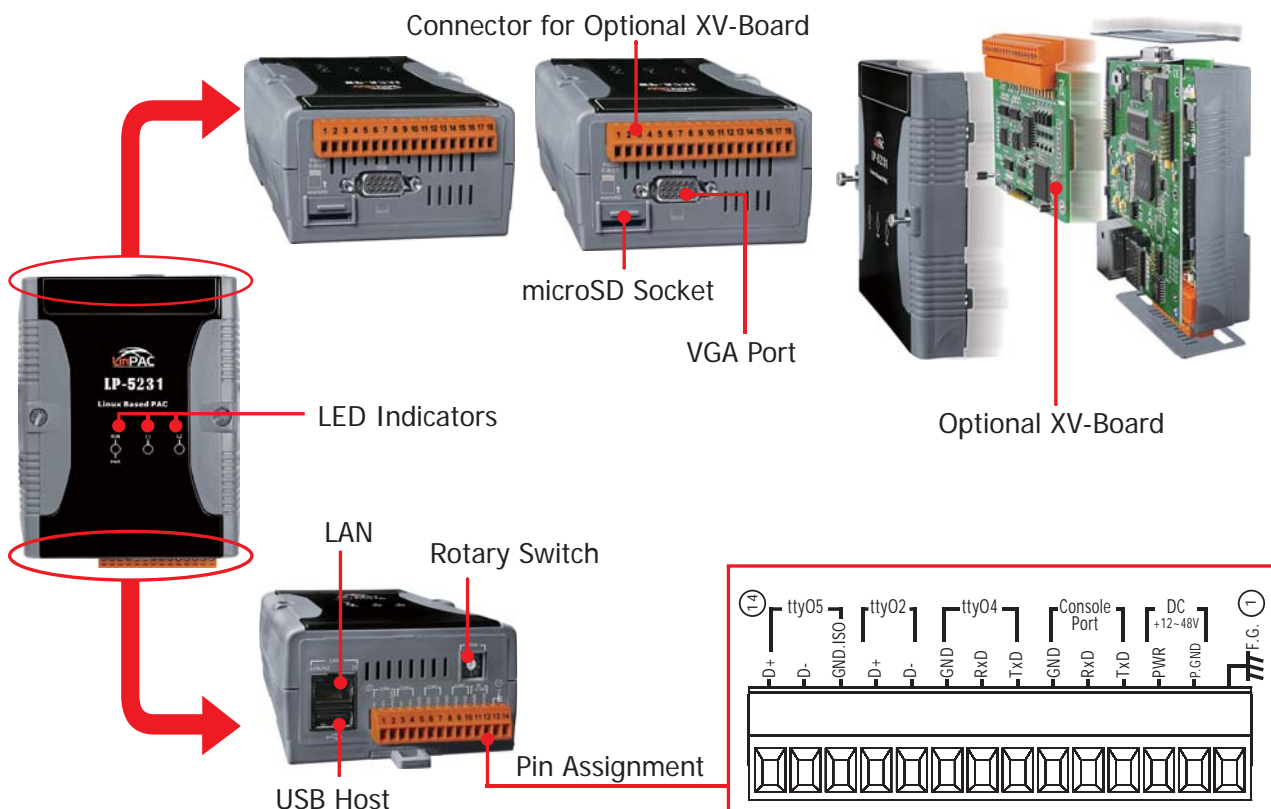
- Cortex-A8, 1GHz CPU
- Linux kernel 3.2.1.4
- 512 MB DDR3 and 512 MB Flash
- 64-bit Hardware Serial Number
- Real-Time Capability
- I/O Expansion Bus
- 10/100/1000M Ethernet Ports
- 3 Serial Ports (RS-232/485)
- Operating Temperature: -25 ~ +75°C



Introduction

The LP-5231 series is equipped a Cortex-A8 CPU (1 GHz) and using Linux operating system (Linux Kernel 3.2.14). Linux Kernel 3.2.14 is a compact and real-time OS used to quickly create time critical and high performance applications. Main advantage of the LP-5231 is its high quality control system, including its stability, small core size, optional I/O expansion board, support for Web services (Web/SFTP/SSH server).

Appearance



Specifications

| System Software | |
|-------------------------------|---|
| OS | Linux Kernel 3.2.14 |
| Embedded Service | SFTP server, Web server, SSH |
| SDK Provided | LinPAC SDK (GCC based toolchain and LinPAC Libraries) |
| CPU Module | |
| CPU | Cortex-A8, 1 GHz |
| SDRAM | 512 MB DDR3 |
| Flash | 512 MB |
| FRAM | 64 KB |
| Expansion Flash Memory | microSD socket with one 4 GB microSD card (support up to 32 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 |
| LED Indicators | 4 LEDs (Power, Running and 2 user defined LEDs) |
| Rotary Switch | Yes (0 to 9) |
| VGA & Communication Ports | |
| VGA & Communication Ports | Yes, resolution: 800 × 600 |
| Ethernet | RJ-45 x 1, 10/100/1000 Based-TX (Auto-negotiating, Auto MDI/MDI-X, LED indicators) |
| USB 2.0 (host) | 1 |
| Console Port | RS-232 (RxD, TxD and GND); Non-isolated |
| ttyO2 | RS-485 (Data+, Data-); Non-isolated |
| ttyO4 | RS-232 (RxD, TxD and GND); Non-isolated |
| ttyO5 | RS-485 (Data+, Data-); 2500 V _{DC} isolated |
| I/O Expansion | |
| I/O Expansion Bus | Yes, one optional XV-board |
| Mechanical | |
| Dimensions (W x L x H) | 91 mm x 132 mm x 52 mm |
| Installation | DIN-Rail Mounting |
| Environmental | |
| Operating Temperature | -25 to +75°C |
| Storage Temperature | -40 to +80°C |
| Ambient Relative Humidity | 10 to 90% RH (non-condensing) |
| Power | |
| Input Range | +12 to +48 V _{DC} |
| Consumption | 4.8 W |

Ordering Information

| | |
|-------------------|---|
| LP-5231 CR | PAC with Linux OS and one LAN port (RoHS) |
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Option Accessories

| | |
|-----------------|----------------------------|
| XV-Board | Add-on I/O Expansion Board |
|-----------------|----------------------------|