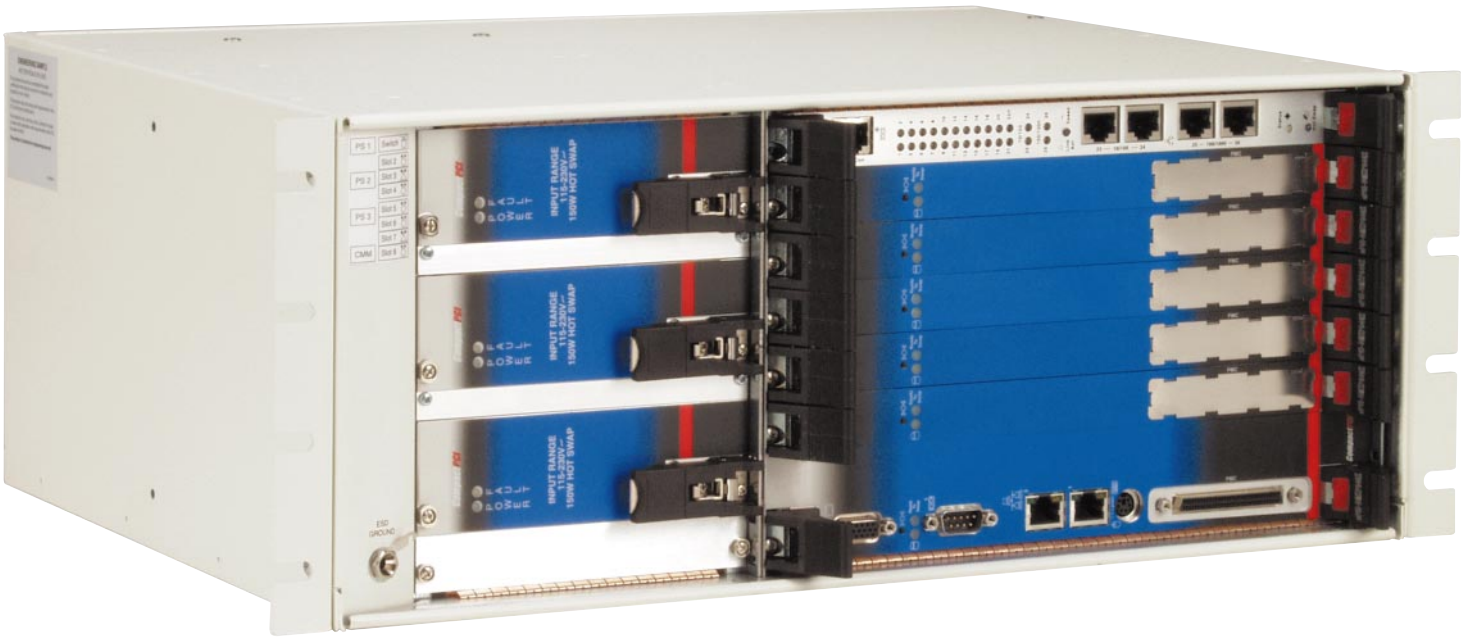
XL-LP42

4U CompactPCI high-density packet switched platform

Kontron's high-density, high-performance XL-LP42 CompactPCI packet switched platform is developed for OEM designers building carrier-grade telecom and Internet equipment.



Fully hardware/software interoperable with multiple manufacturers to speed application development

The XL-LP42 is a key building block for standards-based solutions built on the PICMG 2.16 specification. The platform allows you to route signals across the backplane without the use of cables - saving time in set-up, maintenance and repair.

In addition, the system provides extremely high computing density with efficient side-to-rear cooling for high-density environments. Hot-swappable system components, including processor boards, fan tray and power supplies, provide built-in redundancy, and a chassis management module enables customers to manage multiple system processor boards and conduct chassis diagnostics remotely for enhanced system reliability.

The XL-LP42 can be configured with a wide range of modular off-the-shelf embedded components and supports major operating systems and real-time software to speed application development.

Features include:

- **4U, 19-inch rack-mount design**
- **Choice of CompactPCI boards**
- **Eight slots (seven node slots and one dedicated switched fabric slot)**
- **PICMG 2.16-compliant backplane with reserved slot for an integrated layer 2/3 Ethernet switch**
- **H.110 computer telephony bus**
- **N+1 redundant, load-sharing hot-swappable 250W AC or DC power supplies**
- **IPMI-based Chassis Management Module**

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XL-LP42 - Technical Specifications

Dimensions (W x H x D)
- 17.2" x 7" x 12.25"
- 436 mm x 178 mm x 311 mm

Weight
- 30.5lb (13.7kg)

Bus Interfaces
- CompactPCI core specification, PICMG 2.0 Rev 2.1
- CompactPCI hot-swap, PICMG 2.1 Rev 2.0
- CompactPCI computer telephony, PICMG 2.5 Rev. 1.0
- CompactPCI system management, PICMG 2.9 Rev. 1.0

Power Supply (Options)
- Three N+1 redundant, load-sharing 250W AC or DC 47-pin connector modular power supplies
  - AC Input* 110 or 220VAC (50 to 60Hz)
  - AC Output* 80A @ 3.3/5VDC, 11A @ 12VDC, 1A @ -12VDC
  - DC Input* 36 to 60VDC
  - DC Output* 80A @ 3.3/5VDC, 11A @ 12VDC, 1A @ -12VDC

  **Assumes that two of three power supplies are operating (N+1)*
  Total combined output from 3.3 and 5V not to exceed 80A

Backplane Configuration
- Slot one is dedicated for a PICMG 2.16- compliant switched fabric board
- Slot-2 through slot-7 are available for 32- bit/33MHz or 64-bit/66MHz PICMG 2.16-compliant Single Board Computers and peripheral cards
- The backplane may be configured for 3.3 or 5V operation
- Two PCI bus segments with H.110 telephony bus routed to peripheral slots on each segment

Thermal Management
- Efficient side to rear cooling
- Hot-swappable blower tray with two blowers

Operating Temperature
- 5° to 40°C (41° to 104°F)

Humidity
- 5 to 95% (non-condensing)

Chassis Management Module
- High density 3U x 1-slot CompactPCI form-factor
- Works within PICMG 2.16- and 2.9-compliant systems
- Enhanced security and reliability utilizing IPMI in a unique star topology
- Provides isolated I2C signals for each slot
- 10/100 Ethernet available at the front
- RS-232 (Command Line Interface) available at the front or rear panel
- µDB15 Telco Alarm Interface at the front panel
- Supports multiple management standards including SNMP, IPMI, and Telnet
- Comprehensive monitoring for health, status and component presence
- Out-of-Band, Network Accessible Management Interface
- X-Scale processor design, allowing advanced and automated features to be added with future software releases
- Hot add/Hot swap support for all IPMI-based field-replaceable components
- Individual slot power control for power-on sequencing

Agency Approvals
- FCC Part 15, Subpart B
- EN 55022
- CISPR 22
- Bellcore GR-1089 (Designed to meet)
- EN 50081-1
- EN 55024

Safety
- UL/cUL 60950
- EN/IEC 60950

Warranty
- 2 years

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