XL-VHDS

Carrier-class CompactPCI platform



The Kontron XL-VHDS is a unique modular concept in CompactPCI Packet-Switched Backplane platform solutions intended to offer the communications developer community nearly an unlimited number of off-the-shelf configurations.

XTREAMLINK
Family of products

New era in CompactPCI

As the premier product in Kontron's XtreamLink family of CompactPCI platform solutions, the Kontron XL-VHDS (Very High Density Solution) is the foremost in modular design, providing unprecedented time-to-delivery thanks in part to new switch fabric technology.

This is simply the most economical solution for the best performance for Internet infrastructure and communications applications that depend on high-end, carrier-class grade solutions.

Its exceptional modularity makes it possible for designers to quickly construct a multitude of high-performance machines, from media severs and IP-PBXs to core Internet routers and computer telephony softswitches.

Features	Benefits
Modularity in configuration	Snap-in backplane segments need as little as four screws to be safely mounted, and systems can be configured in a couple minutes
High Availability	Designed for quick and easy replacement and comply to the redundant system concept
Comprehensive System Management	The data is readable by the remote system administrator
Packaging Density	Compared to competitive systems, XL-VHDS will reach an unachieved level of density and processor integration while floor space and infrastructure costs are reduced by up to 50%
Migration to Switch Fabric	Facilitates redundancy and enhances performance as well as system management reliability

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XL-VHDS - Technical Specifications



Form Factor
- cPCI 10U, rackmountable
- Height : 17.5" (445mm)
- Width : 17.0" (432mm)
- Depth : 15.5" (395mm)
- Rear transition module availability for every slots

cPCI modular backplane options
- 2-slot 2.16-compliant backplanes without cPCI bus (configurable from 2 to 14 slots)
- 5-slot H.110, cPCI and 2.16 compliant backplane.

Ethernet switch backplane
- 2.16-compliant
- Support 2 switches for redundancy

Power supply backplane options
- 6 slots backplane (24HP) for 6 x 3U cPCI power supply units (1200W) or
- 4 slots backplane (16HP) for 4 x 3U cPCI power supply units (800W)

Power Supply options

AC Voltage	3U cPCI 200 W, 110/220 VAC Nominal
DC Voltage	3U cPCI 200 W , -48VDC Nominal

System management
- Designed to meet 5-nines availability or better and is designed to enable development of a high availability system for mission critical applications through:
  - OS specific high availability extensions
  - IPMI-based platform management
  - System management capabilities including redundant system management cards monitoring fans, blowers, power supplies, and power input with LEDs display and management middleware

Storage options
- EIDE Single slot with Floppy / CD-ROM and Hard drive
- Dual-slot SCSI backplane for 2 SCA hot swap drives
- up to 6 backplanes

Thermal management
- 3 hot-swap fans (150CFM/each)
- 4 hot-swap blowers (25CFM/each)

Environment
Designed to meet or exceed the following:

NEBS	GR-63
Ambient Temperature	
Operating/Humidity	-5°C to +50°C/5-95% @ 50°C (23° to 122°F/5-95% @ 122°F)
Non-Operating/Humidity	-40°C to +70°C / 0-95% @ 50°C (-40° to 158°F / 0-95% @ 122°F)
Shock (operating)	10G max. at 11ms duration, 3 axis both directions
Shock (storage)	30G max. at 11ms duration, 3 axis both directions
Vibration (operating)	10-58Hz (+/-0.075mm), 58-500Hz 0.5G , 3 axis
Vibration (storage)	10-58Hz (+/-0.15mm), 58-500HZ 1G, 3 axis
Acoustic Noise	< 60dB A-weighted at 600mm in front of the system at full load

Safety Regulations

US	UL1950; NEBS GR-1089
Canada	CSA C22.2 No. 950
Europe	CE Mark EN60950 +A1, A2, A3, A4, and A11
International	CB Scheme report IEC60950

Flammability
All plastics: UL94V0 or V1 with O I > 28%

EMC/EMI/RFI
Designed to meet or exceed the following:

US	FCC 47 CFR Part 15, Class A; NEBS GR-1089
Canada	ICES-003 Class A
Europe	CE Mark to EN55022 Class A,EN61000-3-2, EN61000-3-3/ EN55024 (EN61000-4-2, 3, 4, 5, 6, 7, 8, 11)

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