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VLX2500 3.125 Gb/s 8/16-port VME Switch

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The VLX2500 Crossbar Sw oss-point switch implemented on a 6U VME 64X card for dig gigabits per second (Gbps). A single VME card provides a ion of an 8-port expansion card provides a total of 16 ports f its 16 outputs to any one of its 16 inputs. Each port input g or bypassing the retiming circuitry altogether. The pr through the switch is ignored by the VLX2500 and is unalte tch. The VLX2500 can be used with many different types

NOTE: The addition of the a total of two 6Ux4HP VME slots.

A single VLX2500 switch h Pluggable (SFP) transceiver modules. Each SFP transce ports for one input-output pair. While the cross-point switc to 3.2 Gbps, different types of SFP transceiver modules ir ange of data rates or the data format they will pass.

Hardware Features

- 16 non-blocking SFP transceiver ports (with optional 8-port expansion card)
- 3.2 Gbps/port baud rate
- 25.6 Gbps total bandwidth (51.2 Gbps with optional 8-port expansion card)
- Supports Arbitrated Loop, Point-to-Point, One-to-Many communication links
- Optional bypass of retiming circuitry for each port
- Retimed ports support short wavelength (850 nm), long wavelength (1300 nm), and HSSDC2 physical media options
- Small Form-factor Pluggable transceiver MultiSource Agreement (SFP MSA) compatibility for each port to ensure functional support for transceivers
- rom other manufacturers
- Flexible automatic I/O port fault isolation
- Multiple media options
- Hot-swappable SFP modules
- Cross-point configuration controlled across VME Bus or RS-232 port
- Front panel "Signal Detect" status indicators for each port provided
- Front panel "Power On" status indicator
- Front panel "Transmitter On" status indicator for each port
- Front panel "Heartbeat" status indicator
- Provides unique VME card base addressing
- Card Reset switch
- Password Reset switch
- Watchdog timer
- 32 KB Non-volatile SRAM (NVSRAM)

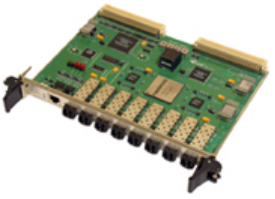
User Control Interface
The VLX2500 is controlled through an RS-232 port or via the VMEbus. The RS-232 port offers a command line interface that allows you to configure and receive status information from the VLX2500. The RS-232 interface uses an RJ-45 connector port.

The user-control interface has these features:

- On-line help for each command
- Configurable status display
- Configurable fault isolation (bypassing and/or alternative source attachment)
- Automatic restoration of the last configuration at power up
- No user intervention required at startup
- Four saved configurations

The VLX2500 front panel contains a reset pushbutton, an RJ-45 connector (RS-232 port), and Status LEDs. The Status LEDs include a "POWER ON" indicator, a "Heartbeat" LED and "Signal Detect" and "Transmitter On" LEDs for each port.

Operation
The VLX2500 has four main functions:
1. Route signals from SFP transceiver module inputs to the selected SFP transceiver module outputs.
2. Provide an out-of-band command line interface.



Documents

- **VLX2500 fact sheet**

Other Links

- **Ruggedization Levels**
- **Product Group Index**

3. Provide status information.
4. Provide fault isolation when required.

Expansion Card
The optional VLX2500 Expansion Card provides eight additional SFP transceiver ports. These ports are operationally identical to those on the main VLX2500 card. All port input data can be retimed or nonretimed, depending on your configuration requirements.

Network data from the VLX2500 Expansion Card is passed to the VLX2500 through a board-to-board connector to a 16 x 16 cross-point switch. Any of the sixteen outputs can be connected to any one of the sixteen inputs.

The VLX2500 Expansion card mounts onto the VLX2500 using several standoffs. The combined Expansion card and VLX2500 requires two 6Ux4HP VME slots. Cutouts in the Expansion card allow for easy access to VME base address switches and a Password Reset Switch.

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Hardware Specifications

Physical Dimensions	Double-height VMEbus card: 15.99 cm x 23.33 cm (6.299 inches x 9.187 inches)
Weight	Approximately 0.83 lbs (w/o SFP modules)
Electrical Requirements	+5 VDC, 3.0 A Peak, 2.96 A Average
Operating Temperature Range	+0° to +70°C
Storage Temperature Range	-40° to +85°C
Operating Humidity Range	10% to 90% (noncondensing)
Storage Humidity Range	5% to 95% (noncondensing)
Data Rates	Up to 3.2 Gbps (SFP Transceiver dependent)
Total Bandwidth	25.6 Gbps with 8 ports
Maximum Data Run Length	10 bits

Ordering Information

Order Number	Description
FHS4-00000000-10	VLX2500 8-port Crossbar Switch (No transceivers)
Ruggedized Level 1	
FHS4-00000000-11	VLX2500 8-port Crossbar Switch Ruggedized Level 1 (No transceivers)

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