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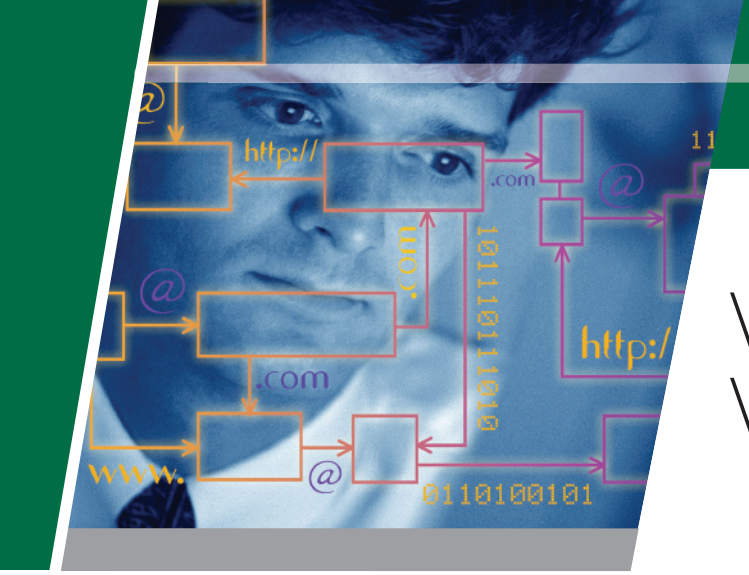
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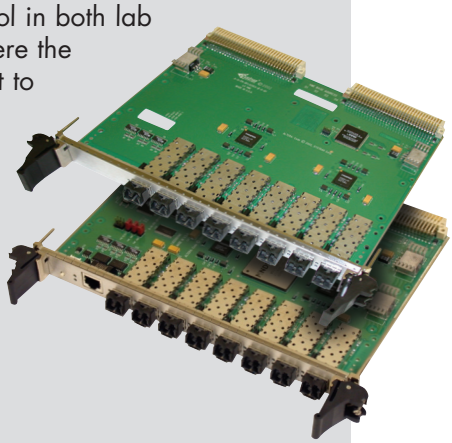
Product Fact Sheet

VLX2500 Series VME-based 6U

8x8 & 16x16 Physical Layer Switches

From the originators of the Physical Layer Switch with over 9 years of experience, the patented VLX2500 brings non-blocking, multi-protocol physical layer switching to VME systems and applications, allowing any input to be connected to any output at speeds up to 3.125 Gb/s. Virtually any digital signal, regardless of structure or protocol, can be routed through the VLX2500 with no impact on throughput speed.

The base VLX2500 switch is a single 6U VME64x card with eight ports. With the addition of an 8-port expansion card, the switch provides sixteen ports in two VME slots. Each port input provides an option of clock reconditioning to reduce jitter. This option makes the switch an ideal reconfiguration tool in both lab environments, where the user may not want to impact the signal during tests, and in deployed environments, where signal integrity is critical to overall performance.



Both the base switch card and the expansion card utilize Small Form-Factor Pluggable (SFP) transceiver modules. Each SFP transceiver module provides the physical ports for one input-output pair. While the cross-point switch itself operates from 65 Mbps to 3.125 Gbps, it is the transceivers that determine the range of data rates or data formats the VLX2500 will transfer. This provides tremendous flexibility in lab environments that require frequent reconfiguration of heterogeneous networks and systems.

In addition, the VLX2500 front panel provides status feedback via LEDs, including a "POWER ON" indicator, a "Heartbeat" indicator, and "Signal Detect" and "Transmitter On" LEDs for each port.

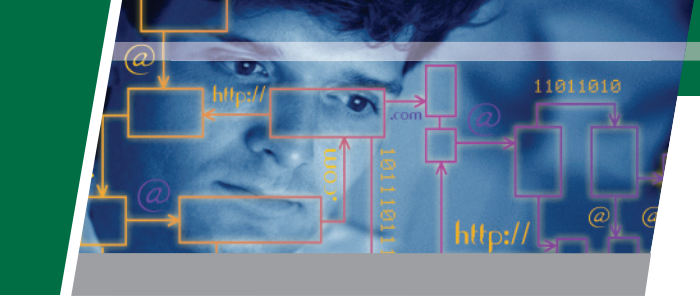
The VLX2500 is available in several physical configurations. For benign environments, the 8x8 and 16x16 port versions can be added to an existing VME chassis, requiring one or two slots, respectively. The VLX2500 is also available in a 1U high 19" rackmount 'pizza box.' If you are deploying the VLX2500 in a more harsh environment, then both boards are available in rugged versions suitable for such demanding applications.

The VLX2500 switch is controlled through an RS-232 port or via the VMEbus. The RS-232 port option provides an easy-to-use command line interface (CLI) that allows the user to configure and receive status information from the VLX2500. The CLI provides the following features:

- Configurable status display
- Configurable fault isolation
- Configuration access control
- Up to four saved configurations
- Automatic restoration of the most-recently used configuration
- On-line help for each command

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8x8 & 16x16 Physical Layer Switches

Features

- Up to 16 non-blocking SFP transceiver ports (with optional 8-port expansion card)
- 3.125 Gbps/port baud rate
- 50 Gbps total bandwidth for 8 ports and 100 Gbps for 16 ports
- Point-to-Point (full or half duplex), multicast (1 to many), and loop (with auto loop feature) topologies.
- Optional bypass of clock conditioning circuitry for each port
- Hot-swappable SFP transceivers
- Command Line Interface (CLI) configuration commands sent via the VME bus or the RS-232 port
- LED Indicators include: 'Signal Detect' and 'Transmitter On' for each SFP and 'Power On' and 'Heartbeat' for the system
- Select 16, 24 or 32-bit VME bus addressing
- Built-in Self Test (BIST)
- Ruggedized version available

Benefits

Manage Sensor Inputs to Multiple Processors

- Manage the workload for a series of Digital Signal Processors (DSP) that are receiving data from sensors. When one DSP gets busy redirect the sensor input to another.

Automate Test, Reduce Errors

- Establish an RS232 connection and remotely change topologies and emulate optical power or cable breaks. Write scripts in PERL, TCL, or other scripting languages using the simple, but powerful CLI

Share Data Recorders, Save Money

- Buy fewer data recorders by connecting one to the switch. Multicast sensor inputs to the recorder and DSP.

Media Conversion

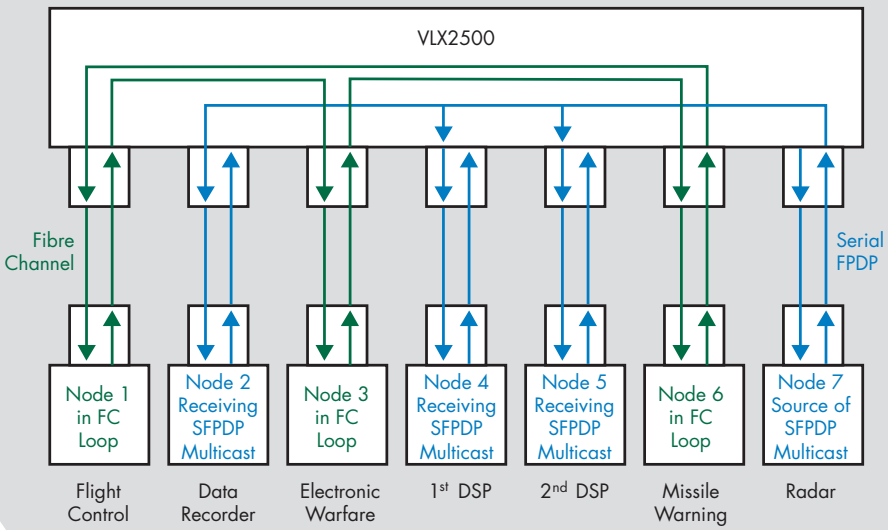
- Bring a signal in copper and exit the switch via optical. Change 850nm optical to 1550nm optical for DWDM applications.

Wire Once, Save Time

- Connect all the devices under test and then make all topology changes or fault tests with the switch.

The VLX2500 switch is controlled through an RS-232 port or the VMEbus. The easy-to-use Command Line Interface (CLI) allows the user to change topology, emulate faults, ancquire health and status information from the VLX2500. The CLI provides the following features:

- *Change Topologies*
  - Autoloop: Connect ports 1A, 1C, and 1F in an autoloop. If one port fails, the loop will 'heal' itself by eliminating the bad port. *cc 1A1C1F*
  - Port Copy: Connect port 2B and 2E in a duplex (bidirectional) mode. *cc 2B2E 2E2B*
  - Multicast: Connect the input of port 1G to the output of ports 1B, 1D, and 1E. *cc 1G1B 1G1D 1G 1E*
- *Emulate Faults*
  - Output Enable: Turn off the output laser on port 1C. *oe 1C out*
  - Break: Wait 250 milliseconds after turning output lasers off during loop reconfiguration and then turn them back on. *break 250*
- *Health and Status*
  - Port List: List configuration of all ports in a table or list. *p all or st all*
  - 'Smart' SFP transceiver: Provide information about SFP transceiver in port 1E. *sfp 1E*
  - Self Test: Test the crosspoint switch, CDR circuitry, output enable registers, and NVRAM. *selftest*



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