



Curtiss-Wright Debuts Industry's First 8.5 Gb/s Fibre Channel Physical Layer Switch

DAYTON, OH -- Curtiss-Wright Data Communications Division, the originator of the Physical Layer Switch with over 11 years of experience, has introduced the RT8000 port card, the industry's first 8.5 Gb/s Fibre Channel port card. Designed to enhance Curtiss-Wright's proven GLX4000 physical layer switch products, the RT8000 can switch 8.5Gb/s Fibre Channel to 48 SFP+ ports.

The GLX4000, an industry leading Physical Layer Switch, offers 144 ports or 288 ports for 10/100/1Gbps Ethernet, FC, SFPDP, InfiniBand, or digital video signals, and up to 72 ports for 10 Gbps Ethernet.

"Curtiss-Wright's GLX4000 switch has revolutionized the physical layer switch market with unmatched port density," said Gorky Chin, vice president of the Data Communications group. "Now, our RT8000 supports the highest speed Fibre Channel available, while maintaining compatibility with our legacy switches."

The RT8000 supports the new 8x Fibre Channel standard with 48 hot swappable Small Form Pluggable (SFP /SFP+) transceivers of different optical wavelengths or copper. The card supports full SFP/SFP+ diagnostics as well as individual port configuration options such as rate select, path select, signal conditioning selection including automatic line rate detection.

With its unmatched throughput, the RT8000 port card expands the GLX4000's unique switching, fail safe features, and proven reliability enabling fast network change-overs for Interoperation Labs, Test Labs, SAN Networks, and other applications where network control and management are critical.

RT8000 Port Card Features:

- 48 Hot-Swappable SFP+ Ports - Highest port count density chassis
- 8/4/2 Gb/s Fibre Channel – Test mixed signals in the lab
- Signal detect counter on each port – Aids troubleshooting
- Multiple SFP types - Media conversion
 - SFP/SFP+ 850nm 1310nm, 1550nm transceivers
- SFP Digital Diagnostics - Monitor SFP temperature, transmit laser health, etc.
- Port Card Indicators - Monitor port status at a glance

- Software support:
 - Command Line Interface (CLI) – Full Remote control
 - Graphical User Interface (GUI) - Easy to use
 - SNMP - Remote monitoring
- Same port cards are used in both GLX4000 144-port & 288-port switches – providing a growth path to larger port counts and savings on spares and inventory
- Applications:
 - SAN Interop Labs
 - FC Network Test Labs
 - Software Regression and Validation Test
 - Fibre Channel Tap/Probe Support
 - SAN Performance Monitoring
- Uses:
 - Promotes quick test setup and reconfiguration
 - Remote network and cable infrastructure control
 - Electronic Patch Panel management - wire once
 - Add programmable control over taps and SPAN ports
 - Electronically move and share FC Analyzers devices
 - Media Conversion

The GLX4000 Physical Layer Switch

Curtiss-Wright's GLX4000 series of Physical Layer Switches offers out-of-band non-blocking control to connect any switch input port to any output or mirror signals to multiple outputs. The GLX4000 is capable of switching 144 ports, or 288 ports, of serial digital signals, up to 10 Gb/s, in the smallest chassis on the market.

19 inch rack mounted GLX4000 switches are scalable by accepting up to six modular port cards with forty-eight (48) ports per card [(12) ports per card for 10 Gbps Ethernet]. Port cards are available with RJ45, Small Form-Factor Pluggable (SFP & SFP+) or XFP transceivers - supporting 2.5Gbps, 4.25Gbps, 8.5 Gbps, 10/100/1 & 10 Gb/s Ethernet or Firewire (1394) up to 1600Mb/s. signals. Port cards and transceivers are both hot-swappable, providing for quick installation and robust use.

The GLX4000 provides quicker Interop testing, network development, and software debugging all with greater control and lower costs. For example, it significantly reduces



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network reconfiguration and setup time, all through a remote and secure means. Automating the wiring and configuration process can help eliminate human errors and greatly increase the accuracy of reconfiguring network topologies. The switch also enables devices to be connected or disconnected “under test”, changing topologies, simulating faults and cable breaks, or emulating optical power loss.

Cost savings can also be realized since the GLX4000 allows the sharing of expensive resources such as analyzers, intrusion detection systems, sniffers, or data recorders. Any data communications can be mirrored or copied to another port to facilitate security or performance monitoring equipment. Test equipment can be connected and shared among all users and departments on a real time and “as-needed” bases.

All switches are supplied with “Net Manager” configuration management software providing users with real-time control of the switch port configuration.

A user-friendly and full-featured GUI or scripts written in PERL, TCL or other scripting languages, are used to remotely update topologies or setup entirely new network configurations. Using the Net Manager GUI software users can simply drag and drop on-screen ports or equipment icons and the switch will change its configuration instantly, in nanoseconds. Configurations can be saved and then later recalled to reliably repeat a given set-up. The GUI displays a Physical View which represents the front face of the switch, while a Logical Views presents a graphical presentation of network connections and products; both make it easy to understand the current network topologies and to make updates.

Additionally, Net Manager allows the user to monitor the health of the switch chassis and port cards. Chassis and temperature readings are available for the crosspoint, backplane, and controller card. Fan speeds are depicted as well. Historical data is logged on a chart, allowing the user to determine the switch state during a specified period of time. The temperature and historical charts for the port cards are similarly available.

The GLX4000 provides hot-swappable port cards and transceivers, dual redundant Power Supplies and cooling fans all in a robust 19 inch rack chassis.

Availability of the RT8000 FC port card is off-the-shelf in Q4'08.

Additional GLX4000 product information and port card specification can be reviewed at CurtissWrightSwitch.com. For pricing and specific equipment information, please contact Matt Young Tel: (937) 252-5601 ext. 1363; e-mail: myoung@curtisswright.com.



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About Curtiss-Wright Controls Embedded Computing

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About Curtiss-Wright Controls, Inc.

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