



DXS410 PCI Express Cluster Switch

Switching PCI Express®



FEATURES AND BENEFITS

- High-performance, ultra low-latency switched 10-Gbps interconnect
- 20 Gbps interconnect performance for connecting host systems or expansion chassis
- Ten non-blocking, 10 Gbps full duplex (x4) PCI Express ports
- Provides both copper and fiber optic cabling options for connecting hosts or I/O
- 1 RU rackmountable chassis
- Management port for switch maintenance

High performance applications for the telecommunication, financial, and web 2.0 infrastructure markets require fast response times, high throughput and high availability. A key enabler gaining acceptance in these markets is the practice of clustering multiple industry standard servers using a high-speed network to provide outstanding performance at a fraction of the cost of traditional large scale server applications. PCI Express is quickly being adopted as the I/O interconnect of choice in these industry standard servers platforms. Dolphin's PCI Express clustering products integrate the ubiquity of PCI Express with the requirements for cluster computing.

The Dolphin DXS410 PCI Express Cluster Switch provides an economical, high performance switching solution based on PCI Express. As part of Dolphin's PCI Express clustering products, this 10 port 1RU cluster switch helps create the only PCI Express based cluster solution with high-bandwidth, low-latency and 100% software compatibility for the database and embedded cluster customers.

The DXS410 is an ultra low latency switch with 10 high speed non-blocking ports each capable of 10 Gbps per port and configurable to support 20 Gbps to hosts or I/O subsystems. The 10 powered ports provide the flexibility of either copper or fiber-optic interface configurations.

The DXS410 is part of an overall Dolphin Express solution that includes host adapters, I/O expansion systems, and Dolphin's SuperSockets software libraries. This overall combination provides a fast and reliable communication solution for applications that benefit from an ultra-low latency, high performance cluster interconnect.



DXS410

Application Examples

Specifications

Product Code

- DXS410-A0

Link Speeds

- 20 Gb/sec full duplex

Ports

- 10 - non-blocking, 10Gbps ports

Physical Specifications

Cable Connections

- Copper Cabling
- Fiber Optic via pluggable transceivers

Cable Distances

- Copper - Up to 10 meters
- Fiber optic
 - » 20 Gbps - up to 100 meters

Mechanical

Chassis

- 1RU, 19-inch rack-mountable chassis
- 420mm(W)x 120mm(D)x 45mm(H)

Power

- Auto-sensing power supply

Operating Environment

- Operating Temperature: 0°C - 55°C
- Relative Humidity: 5% - 95% non-condensing
- Altitude: 0 - 3000 meters

Management

Ports

- 1-RS-232 console port

Indicator

- Operational-status and alert LEDs

Software

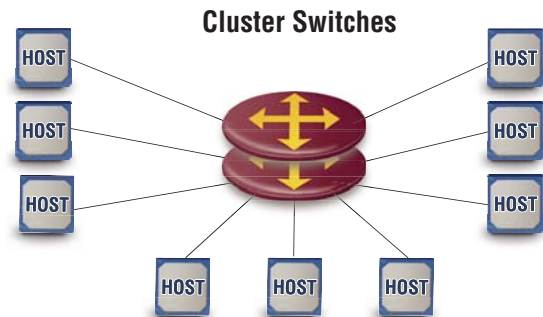
Operating System Support

- Windows NT, Windows 2000, Windows XP and Windows Vista
- Linux

Regulatory

- CE Mark, commercial
- FCC Class A

Cluster Solution



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