

8-Ports InfiniBand Switch



Overview

The 8-ports is a cost-effective, high-performance 8-port 4X (10Gb/s) InfiniBand switch. Each InfiniBand port supports a standard InfiniBand 4X copper cable interface, or fiber connections via separate media adapter modules which provide connections up to 300 meters. Also supported is a standard 9-pin D-type connector for debug purposes and firmware upgrade purposes. At the heart of the 8-ports switch is a single Mellanox InfiniScale integrated switch IC that delivers 160Gb/s of ultra low-latency switching performance with integrated physical Layer SerDes interfaces. All firmware and EEPROM contents are included to enable switch management from another Subnet Manager agent on the fabric.

The 8-ports switch enclosure is a compact 1U with dimensions measuring 340 mm x 167 mm x 43.6 mm (W x D x H). The enclosure also houses an internal power supply for AC power operation (automatically detects 110V or 220V), internal fans and temperature sensors with LED Status Indicators for InfiniBand Ports and major components. The switch enclosure can be mounted into a standard 19" rack.

Key Features

- InfiniBand v1.1 compliant 8-port switch
- Full non-blocking switch architecture
- Ultra-Low Latency < 180ns
- Small form factor design
- 19" rack mountable
- Supports standard 4X copper InfiniBand cables or 300m fiber connections via media adapter modules
- LEDs indicate port link and activity
- Less than 30 Watts

Flextronics ODM



Compatible with Open Source Management Solutions

The 8-Ports switch is compatible with any standard InfiniBand-compliant Subnet Management software running externally of the switch. Once connected to an InfiniBand fabric, the InfiniScale firmware can be updated and managed from remote InfiniBand hosts. Internal temperature, voltages, and the health of the power and fan module can be monitored remotely over the InfiniBand fabric.

Applications

- Small virtualized data centers that require a high-bandwidth, low-latency interconnect for servers and storage grids
- Departmental or personal supercomputing clusters for molecular modeling, financial risk assessment, drug research, etc.
- Clustered database applications, parallel RDBMS queries, high-throughput data warehousing
- Clustered storage and performance storage applications such as backup, restore, mirroring, etc.



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