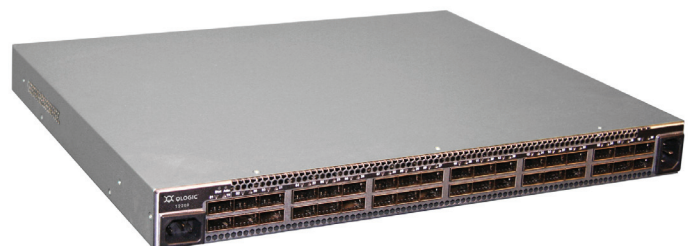


QLogic 12200 IB Switch

36-Port 40Gbps Switch, Managed, Fixed Configuration

Overview

The QLogic 12200 is a 36-port, 40Gbps InfiniBand switch that cost-effectively supports a cluster of up to 36 servers, or provides an edge switch option for a larger fabric. This fixed-configuration InfiniBand switch is a member of the 12000 series that delivers an unmatched set of high-speed networking features and functions.



Highlights

- 36 ports of InfiniBand QDR (40Gbps) performance, with support for DDR and SDR
- 2.88Tbps aggregate bandwidth
- TrueScale™ architecture, with scalable, predictable low latency
- Multiple Virtual Lanes (VLs) per physical port
- Supports virtual fabric partitioning
- Small QDR data center footprint with cost-effective InfiniBand edge-port density
- Chassis and fabric management through optional embedded management module or InfiniBand Fabric Suite (IFS) management solution that provides an expanded set of fabric views and fabric tools
- RoHS 6 compliant
- Minimal power and cooling requirements
- Complies with InfiniBand Trade Association (IBTA) v1.2 standard

Benefits

- QDR line rate performance
- Ultra-low latency under heavy loads
- Flexible quality of service (QoS) maximizes bandwidth use
- Protects existing InfiniBand™ investments
- Highly reliable and available
- Easy to manage
- Minimal power and cooling requirements

Low Latency. QLogic's 12200 switch provides scalable and predictable low latency, even when operating at 90 percent of bandwidth. Predictable latency means HPC applications can be scaled easily without diminished cluster performance or costly system tuning efforts.

Flexible Partitioning. The QLogic 12200 advanced design is based on an architecture that provides a comprehensive set of virtual fabric partitioning features that enable the InfiniBand fabric to support the evolving requirements of an organization. The TrueScale architecture, together with IFS, allows mission-critical applications to share the fabric, while maximizing bandwidth.

Investment Protection. The 12000 Series switch products adhere to the IBTA version 1.2 specification, which ensures interoperability with all IBTA-compliant devices.

Highly Reliable. The highly available 12200 switch design integrates state-of-the-art fault detection and recovery capabilities.

Easy to Manage. The 12200 switch takes advantage of QLogic's advanced IFS software for fast installation and configuration. IFS has tools that automate and accelerate cluster installation, verification, and administration for both hosts and switches. IFS integrates easily with existing network management tools, and has comprehensive reports that supply a wide range of details about the environment.

Power Optimized. Maximum performance is delivered with minimal power and cooling requirements as part of QLogic's Star Power™ commitment to developing green solutions for the data center.

Switch Options

- 12200-BS01: 36 ports, single power supply
- 12200-BS21: 36 ports, dual power supply
- 12200-BS01-MM: 36 ports, single PS, embedded management module
- 12200-BS21-MM: 36 ports, dual PS, embedded management module

Switch Specifications

- 40/20/10Gbps auto-negotiation links
- Thirty-six 4X QDR ports or eighteen 8X QDR ports
- Switching capacity: 2.88Tbps
- VLS: Eight plus one management
- Maximum MTU size: 4096 bytes
- Maximum multicast table size: 1024 entries
- Supports QSFP transceivers, optical and copper cable specifications

Interoperability

- Compliant with IBTA 1.0a, 1.1, and 1.2

Fabric Management**Management Methods**

- Optional external server-based InfiniBand-compliant Subnet Manager (SM)
- Optional embedded fabric management
- IBTA-compliant Subnet Management Agent (SMA) and Performance Management Agent (PMA)

LEDs

- One per InfiniBand port
- Two for InfiniBand switch status

Physical Specifications**Dimensions**

- H x W x D: 43.2 x 439.6 x 362.5 mm
(1.7 x 17.3 x 14.5 in)

Weight

- 6.8kg (15lbs)

Environmental Specifications**Operating**

- 0°–40°C
- Humidity: 5–85 percent non-condensing
- Altitude: 0–10,000 feet
- Vibration: 5–500 Hz, 0.27g, 5 sweeps
- Shock: 3.5g, 3ms, half sine, 20 repetitions

Non-Operating

- –40°–65°C
- Humidity: 5–90 percent non-condensing
- Altitude: 0–40,000 feet
- Vibration: 2–200Hz, 0.5g, 5 sweeps
- Shock: 50g, 4216mm/ps, 13msec, 3-axis

Electrical

- Voltage: 100–240 VAC; 50–60Hz
- Power Consumption: 85–226W

Airflow

- Front-to-back; back-to-front for selected OEMs

Agency Approvals

- Safety: UL/CSA/IEC/EN 60950-1
- EMI: FCC/VCCI/EN/IEC Class A
- Marking: FCC/ICES-003/TUV-CUE/CE/VCCI/C-Tick/GOST/KCC
- RoHS 6



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