

Mellanox SH2200 Switch Module for HPE Synergy



Overview

Does limited network bandwidth create a performance bottleneck in your hybrid IT environment?

The Mellanox SH2200 Switch Module for HPE Synergy delivers high-performance, high-speed, low latency 25/50GbE connectivity to each of the Synergy compute nodes, and 40/100GbE to upstream network switches. The module delivers up to 2.8 Tbps switching capacity and 8.4 BPPS throughput for the most demanding data center applications. It offers advanced and comprehensive Layer 2 and Layer 3 feature sets, as well as hardware-based network virtualization support. Network reliability is improved with resilient fabric connectivity to upstream switches using Multi-module LAG (MLAG) technology to reduce single points of failure.

Features

Blazing Fast, High-performance Connectivity for HPE Synergy Compute Modules

The Mellanox SH2200 Switch Module for HPE Synergy enables high-performance, wire-speed 25GbE or 50GbE downlink ports to the HPE Synergy Compute Modules.

Delivers up to 2.8 Tbps switching capacity and 8.4 BPPS throughput for the most demanding applications.

Ultra-low latency (<300 ns) to support applications or workloads such as high frequency trading.

Provides storage offloading using Remoted Direct Memory Access (RDMA) over Converged Ethernet (RoCE).

Resilient Networking Fabric with Comprehensive Feature Sets for Hybrid IT

The Mellanox SH2200 Switch Module for HPE Synergy improves network reliability with resilient fabric connectivity to upstream switches using Multi-module LAG (MLAG) technology to reduce single points of failure.

Managed by a command line interface (CLI), Web GUI or Mellanox® NEO software with support for existing network management tools and processes.

Comprehensive Ethernet feature set including RoCE, VXLAN, advanced Layer 2/Layer 3 features to support hybrid IT environments.

Improves network virtualization performance with hardware-based VXLAN support.

Supports Software-defined Networking (SDN) via OpenFlow 1.4.

Integrate HPE Synergy into Existing Infrastructure with Industry Standard Connectivity Options

The Mellanox SH2200 Switch Module for HPE Synergy uses the industry standard QSFP28 ports for upstream switch connectivity.

Up to eight 40/100GbE QSFP28 ports for blazing fast uplinks.

Each 100GbE ports may be split into four 25GbE ports offering connectivity options to a wide range of upstream switches and flexibility in your configurations.

Technical specifications

Mellanox SH2200 Switch Module for HPE Synergy

Warranty3year Parts, 3 year Labor, 3 year on-site support



[For additional technical information, available models and options, please reference the QuickSpecs](#)

HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

Consulting services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

- HPE Complete Care Service: a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.
- HPE Tech Care Service: the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

HPE GreenLake

HPE GreenLake edge-to-cloud platform is HPE's market-leading as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model, on premises, fully managed in a pay per use model.

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

Image may differ from the actual product
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