



MELLANOX SH2200 SWITCH MODULE FOR HPE SYNERGY

Synergy Switches



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

Warranty

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



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

HPE POINTNEXT SERVICES

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Operational Services from HPE Pointnext Services

[HPE Pointnext Tech Care](#) provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

[HPE Pointnext Complete Care](#) is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment, and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts.

HPE Integration and Performance Services help you customize your experience at any stage of your product lifecycle with a menu of services based on individual needs, workloads, and technologies.

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- Deploy
- Integrate and migrate
- Operate and improve
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- Retire and sanitize
- IT Training and personal development

Other related services

[HPE Education Services](#) delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation. Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support 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](#) is HPE's market-leading IT 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. HPE GreenLake delivers public cloud services and infrastructure for workloads 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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