Data sheet

HPE Storage Switch M-series SN3420M

What's new

- HPE Storage Switch M-series SN3420M offering 48 x 25 GbE/12 x 100 GbE connectivity.
- The NVIDIA® Cumulus Linux® Network Operating System is bundled with the HPE Storage Switch M-series SN3420M using SKU S2T77A.

Overview

How can you provide fast, reliable, and cost-effective connectivity in the data center with predictable performance and investment protection? HPE Storage Switch M-series SN3420M is ideal for modern server and storage networks. Supporting port speeds of 1, 10, 25, 40, 50, and 100 GbE, delivering predictable performance and zero packet loss at line-rate across each port and packet size. Enhanced for storage combined with efficient design, it provides enterprise-level performance with attractive economics and outstanding ROI. Networks built on HPE Storage Switch M-series SN3420M are fast, reliable, and scalable while also being affordable and easy to manage. It supports primary and secondary storage, providing consistently fair, fast, low-latency connectivity even under heavy workloads or a mix of different port speeds. This makes them ideal for storage, hyperconverged infrastructure, financial services, and media and entertainment deployments.

Features

High Density Data Center Switching

The HPE Storage Switch M-series SN3420M is a data center switch offering a 1U 48-port 25 GbE SFP28 + 12-port 100 GbE QSFP28 connectivity.

Each switch delivers forty-eight SFP28 25 GbE ports and also twelve 100 GbE ports, that may be further split into forty-eight 1, 10, or 25 GbE ports, twelve 40 GbE ports, or twenty-four 50 GbE ports.

Each switch delivers data rates from 1 GbE to 100 GbE (1, 10, 25, 40, 50, 100 GbE) providing future-proofing for connectivity options.

Superior Performance with Future-proof Growth

The HPE Storage Switch M-series SN3420M delivers predictable and consistent throughput (3.58 Bpps) regardless of the packet size being transferred, the mixture of ports that are sending data, and even within mixed-speed environments.

It provides wire-rate performance with zero packet loss across frame sizes, avoiding any negative impact on applications that could occur with frame loss as unexpected packet loss is unacceptable in modern data centers, especially within a storage network.

Enhanced for Demanding Enterprise Data Centers and Storage Environments

The HPE Storage Switch M-series SN3420M provides a flexible combination of ports, allowing great flexibility and efficiency, simplifying scale-out environments, and saving on total cost of ownership (TCO).

Enhanced port configuration enables high-speed rack connectivity to the server at 1/10 GbE or 25 GbE speeds with 100 GbE uplink ports that allow for a variety of blocking ratios that suit specific application requirements.

Unleash Storage Performance and Improve Flash ROI

The HPE Storage Switch M-series SN3420M provides ultra-low latency of under 425 ns port-to-port. This is advantageous for flash storage, which has moved latency bottlenecks from storage access to the network, as well as for the burst nature of today's software-defined and cloud data center traffic.

The buffering architecture of HPE Storage M-series SN3420M switches provides superior microburst absorption for applications that burst data at random intervals.

Technical specifications	HPE Storage Switch M-series SN3420M
Port speed	Supports speeds of 1, 10, 25, 40, 50, 100 GbE
Aggregate switch bandwidth	4.8 Tbps
Protocol supported	Ethernet
Availability features	Dual power supplies and five fan trays
Form factor	1U
Model availability	48 ports of SFP28, 12 ports of QSFP28
Media types	QSFP28, SFP28, SFP+, SFP
Software (required)	NVIDIA® Cumulus Linux®
Ports	48 SFP28 25 GbE + 12 QSFP28 100 GbE

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.

Advisory & Professional 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.

Support 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.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

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.

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

For additional technical information, available models and options, please reference the QuickSpecs

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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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