

# HPE Storage Switch M-series SN4700M

HPE 400GbE 32QSFPDD Power to Connector Airflow Switch SN4700M with NVIDIA Cumulus (S2T81A)

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## What's new

- HPE Storage Switch M-series SN4700M offering 32 x 400GbE connectivity.
- NVIDIA® Cumulus Linux® Network Operating System is now bundled with SKU S2T81A.

## Overview

HPE Storage Switch M-series SN4700M is ideal for modern server and storage networks. Supporting up to 400GbE, it delivers predictable performance and zero packet loss at line-rate across all ports and packet sizes. Enhanced for storage combined with efficient design, it provides enterprise-level performance with attractive economics and outstanding return on investment. Networks built on the HPE Storage Switch M-series SN4700M are fast, reliable, and scalable while also being affordable and easy to manage. They support 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, financial services, and media and entertainment deployments.

## Features

### Designed for Superior Performance, Scale, and Future Growth

HPE Storage Switch M-series SN4700M delivers predictable and consistent throughput regardless of the packet size being transferred, the mixture of ports that are sending data, and even within mixed-speed environments.

Provide 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.

Capable of forwarding wire-rate performance with zero packet loss across 32 ports concurrently while transferring data across both Layer 2 and Layer 3 networks.

With port speeds spanning 1Gbps to 400Gbps utilizing 25/50Gbps (per 1 of 8 lanes) and a switching capacity of 12.8Tbps from 32 ports at 400GbE, these switches provide non-blocking throughput at wire-speed transfers-across many packet sizes.

Utilize built-in 1/10/25/40/50/100/200/400 Gbps capabilities to respond quickly to business needs and to give the customer the flexibility to expand their network speed requirements incrementally.

### Enhanced for Demanding Enterprise Data Centers and Storage Environments

HPE Storage Switch M-series SN4700M allows flexible port speed configurations: 128 ports at 1, 10, 25, 50, or 100GbE, 64 ports at 40, 100, or 200GbE (using breakout cables) or 32 ports at 400GbE allowing flexibility, efficiency, simplifying scale-out of aggregation switching layers and reducing TCO.

In the aggregation layer of fabrics, load balancing and scalability are essential. HPE Storage Switch M-series SN4700M provides superior equal-cost multipath (ECMP) flexibility and efficiency to deliver balanced workloads.

Flexible management and monitoring options from CLI and toolsets provide world-class ease of use, configuration, and monitoring of your fabric.

HPE Storage Switch M-series SN4700M is capable of addressing today's data center's complex networking requirements, growth, and expansion and is perfect for top-of-rack (TOR) deployments, and optimized for virtualized environments, hyperconverged infrastructure, and storage deployments.

### Unleash Storage Performance and Improve Flash Return on Investment

Modernize your data center networks to help eliminate limitations and bottlenecks that can be caused by the addition of flash storage. Avoid packet loss, and provide predictable performance with line-rate packet delivery across ports and packet sizes.

Make better use of data center resources with the high port density per rack unit and the low power consumption.

HPE Storage Switch M-series SN4700M provides ultra-low latency. This is advantageous for flash storage, which moved latency from storage access to the network, as well as for the burst nature of today's software-defined and cloud data center traffic.

Provides enough internal bandwidth that there is sufficient capacity to carry ports at 400Gbps bandwidth. This allows HPE Storage Switch M-series SN4700M to avoid head-of-line blocking which can reduce a switch's overall performance and guarantees.

Extremely flexible and performance-rich lossless fabric capabilities make HPE Storage Switch M-series SN4700M ideal for mission-critical storage applications.

## Technical specifications

### HPE 400GbE 32QSFPDD Power to Connector Airflow Switch SN4700M with NVIDIA Cumulus

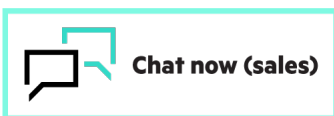
|                                   |                                   |
|-----------------------------------|-----------------------------------|
| <b>Product Number</b>             | S2T81A                            |
| <b>Port speed</b>                 | 400Gbps Ethernet maximum per port |
| <b>Aggregate switch bandwidth</b> | 12.8Tbps                          |
| <b>Protocol supported</b>         | Ethernet                          |
| <b>Form factor</b>                | 1U                                |
| <b>Model availability</b>         | 32 ports active switch            |
| <b>Media types</b>                | QSFP-DD/QSFP56/QSFP28             |
| <b>Software (required)</b>        | NVIDIA® Cumulus Linux®            |
| <b>Ports</b>                      | 32                                |



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

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## 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 you 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.

The Defective Media Retention (DMR) service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction. Comprehensive Defective Material Retention (CDMR) allows you to keep all data retentive components.

## 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.

If you are looking for more services, like **IT financing solutions**, please explore them [here](#).

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