Data sheet

HPE Storage Switch M-series SN3700M

What's new

- NVIDIA® Cumulus Linux® Network Operating System is now bundled with SKUs S2T78A and S2T79A.

Overview

HPE Storage Switch M-series SN3700M is ideal for modern server and storage networks. Supporting up to 200 GbE, 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 SN3700M are fast, reliable, and scalable while also being affordable and easy to manage. They support primary and secondary storage, providing consistently fair, fast, and 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

Designed for Superior Performance, Scale, and Future Growth

HPE Storage Switch M-series SN3700M delivers predictable and consistent throughput regardless of the packet size being transferred, the mixture of ports which 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 1 Gb/s to 200 Gb/s and a switching capacity of 12.8 Tb/s from 32 ports at 200 GbE or 6.4 Tb/s from 32 ports at 100 GbE, these switches provide non-blocking throughput at wire-speed transfers-across all packet sizes.

Utilize 1, 10, 40 Gbps Ethernet connectivity for existing workloads and enhance connectivity utilizing built-in 25, 50, 100, 200 Gbps capabilities to respond quickly to business needs and to stay on the leading edge of Ethernet switching technology.

Enhanced for Demanding Enterprise Data Centers and Storage Environments

HPE Storage Switch M-series SN3700M allows flexible port speed configurations from 128 ports at 10 GbE, 25 GbE using breakout cables to 32 ports at 40 GbE or 100 GbE or 200 GbE, 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 SN3700M Switch provides superior equal-cost multipath (ECMP) flexibility and efficiency to deliver balanced workloads.

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

HPE Storage Switch M-series SN3700M can address today's data center's complex networking requirements, growth, and expansion and are 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 reduce limitations and bottlenecks that can be caused by the addition of flash storage. Avoid packet loss, provide predictable performance with line-rate packet delivery across all 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 SN3700M 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 so there is sufficient capacity to carry ports at 100 Gbps and 200 Gbps bandwidths. This allows HPE Storage Switch M-series SN3700M 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 SN3700M ideal for mission-critical storage applications.

Technical specifications	HPE Storage Switch M-series SN3700M
Port speed	Supports speeds of 1, 10, 25, 50, 100, 200 GbE (200 GbE only on SN3700M)
Ports	32
Aggregate switch bandwidth	6.4 Tbps
Protocol supported	Ethernet
Availability features	Hot-swappable power-supplies, Hot-swappable fan trays
Media types	QSFP28/QSFP56
Model availability	32 ports active switch
Software (required)	NVIDIA® Cumulus Linux®, NVIDIA® ONYX®, or no OS depending on SKU selection. Refer to SKU description for options available.
Form factor	1U
Warranty	3-year parts, 3-year labor, 3-year onsite support coverage. For more warranty information visit https://support.hpe.com/connect/s/warrantycheck.

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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PSN1011801206WWEN, November, 2026.

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