

HPE SN3700cM 100GbE 32QSFP28 Power to Connector Airflow Switch (R3B14A)

M-series Switches



Overview

HPE M-series SN3700M switches are 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 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, 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 SN3700M Ethernet switches deliver 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 1Gb/s to 200 Gb/s and a switching capacity of 12.8Tb/s from 32 ports at 200GbE or 6.4Tb/s from 32 ports at 100GbE, these switches provide non-blocking throughput at wire-speed transfers-across all packet sizes.

Utilize 1/10/40Gbps Ethernet connectivity for existing workloads and enhance connectivity utilizing built-in 25/50/100/200Gbps 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 SN3700M Switch 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 200GbE allowing flexibility, efficiency, simplifying scale-out of aggregation switching layers, and reducing total cost of ownership (TCO).

In the aggregation layer of fabrics, load balancing and scalability are essential. HPE 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.

M-Series Ethernet switches are capable of addressing 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 eliminate 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 all packet sizes.

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



HPE SN3700M Switch 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 100 Gbps and 200 Gbps bandwidths. This allows HPE SN3700M Switch 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 SN3700M Switch ideal for mission-critical storage applications.

Technical specifications

HPE SN3700cM 100GbE 32QSFP28 Power to Connector Airflow Switch

Product Number	R3B14A
Port speed	100 Gbps Ethernet, maximum per port
Aggregate switch bandwidth	6.4 Tbps
Protocol supported	Ethernet
Availability features	Hot-swappable power-supplies, Hot-swappable fan trays
Form factor	1U
Software (required)	ONYX or ONIE



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

HPE Pointnext Services

HPE Pointnext Services brings together technology and expertise to help you drive your business forward and prepare for whatever is next.

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.

- Advise, design, and transform
- Deploy
- Integrate and migrate
- Operate and improve
- Financial Services
- GreenLake Management Services
- 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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