

HPE SN2100M 100GbE 16QSFP28 ONIE Power to Connector Airflow Half Width Switch (R0P82A)



Overview

How can you provide fast, reliable, and cost-effective connectivity in the data center with predictable performance and investment protection? HPE M-series SN2100M Ethernet switches are 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 SN2100M 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, hyper-converged, financial services, and

media and entertainment deployments.

Features

Superior Performance with Future-proof Growth

HPE M-series SN2100M Ethernet switches provide predictability within a storage network and consistent throughput regardless of the packet size being transferred, the mixture of ports which are sending data and even within mixed speed environments.

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.

Capable of forwarding 100% capacity wire rate performance with zero packet loss across ports concurrently at 100 GbE speeds while transferring data across both Layer 2 and Layer 3 networks.

Can be deployed to support 10 GbE ports and is designed to be able to evolve over time to support 25, 50, and 100 GbE speeds. This helps future-proof your network architecture and allows for implementing significant speed changes to the architecture over time.

Enhanced for Storage and Hyperconverged Environments

HPE M-series SN2100M switches provide high-port density in a single rack unit, allowing for higher capacity and efficiency, simplifying scale-out environments and saving on total cost of ownership (TCO). Unique breakout cables fan out individual switch ports to multiple device ports.

With unique form factors and port counts, these Ethernet switches allow two HPE SN2100M units to be deployed side-by-side allowing for increased density, making it the ideal top-of-rack (ToR) switch.

Designed to use less electric power than competing switches, with less than 95W, HPE SN2100M provides one of the industry's lowest power draws, producing less heat than competing products and allowing reduced OPEX cost.

Unleashes Flash Storage Performance

HPE M-series SN2100M switches provide ultra-low latency of under 300ns port-to-port. 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 centers traffic.

Provides enough internal bandwidth that there is sufficient capacity to carry ports at 100 Gbps bandwidth concurrently. This allows the switches to avoid head-of-line blocking which can reduce overall performance and throughput.

Introduces dynamic shared buffers and wire speed performance with no packet loss for predictable data delivery.



Technical specifications**HPE SN2100M 100GbE 16QSFP28 ONIE Power to Connector Airflow Half Width Switch**

Product Number	R0P82A
Port speed	100 Gbps Ethernet, maximum
Aggregate switch bandwidth	3.2 Tbps
Encryption capability	No
Protocol supported	Ethernet
Availability features	Additional ports with upgrade license redundant power supply
Form factor	1U half-width
Model availability	16 ports active switch, 8 ports active switch (need license to upgrade 8 additional ports)
Upgradability	Flash for convenient OS upgrades
Media types	QSFP28
Software (required)	ONYX and ONIE
Ports	16 ports
Software (optional)	HPE SN2100M 100GbE 8p Upgrade E-LTU (Q2M94AAE)
Product dimensions (metric)	4.39 x 20 x 50.8 cm
Weight	4.53 kg



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

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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.

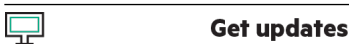
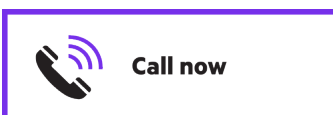
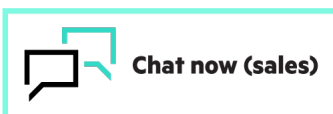
HPE GreenLake

[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.

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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.

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