

HPE AW575B

Datasheet



Product Overview

- HPE's SN6000 series is a stackable 8Gb Fibre Channel switch positioned as a scalable and easy-to-deploy SAN fabric solution.
- It is designed for use in SMBs to large enterprises looking to simplify SAN expansion and keep pace with growing storage demands.
- The AW575B supports up to 20 FC device ports at 8/4/2 Gbps and offers four 10/20 Gbps stacking ports, ensuring high-speed connectivity.
- Transparent Router functionality delivers seamless interoperability across mixed HP SAN environments and simplifies heterogeneous fabric connections.
- SAN Connection Manager software provides end-to-end management, offering streamlined provisioning, zoning, and integrated server-to-storage visibility.
- Ideal for IT teams needing affordable, reliable growth, the SN6000 consolidates storage networks and future-proofs SAN investments with simple stacking.

Product Highlights

- **Effortless Scalability:** Start with 20 FC device ports and scale up to 120 ports per stack or over 500 ports in multi-stack SAN configurations.
- **Stacking Efficiency:** Four 10/20 Gbps high-speed stacking ports reduce hardware cost and cabling complexity while maximizing performance.
- **Integrated SAN Management:** Centralized SCM and VCEM support simplify end-to-end management from HBAs to storage arrays in one interface.
- **Transparent Router:** Built-in functionality ensures seamless, non-disruptive interoperability between HP B-series and C-series SAN environments.

Detailed Features



AW575B

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Component	Specification
Device Type	Switch - 8 ports - Managed
Subtype	Fibre Channel
Ports	8 x 8Gb Fibre Channel SFP+
Enclosure Type	Rack-mountable 1U
Power Supply	AC 120/230 V (50/60 Hz)



Flexible SAN Growth

The SN6000 allows organizations to scale SANs with minimal hardware, using 20 device ports per unit and stacking up to 120 ports. This means you can build a larger storage network with fewer physical devices, reducing cost and deployment time while simplifying network management at scale.

Stackable High-Performance Architecture

With four 10/20 Gbps stacking ports, the SN6000 offers redundant, high-speed inter-switch links. This architecture boosts aggregate throughput and supports non-disruptive upgrades to 20 Gbps, ensuring continued high performance as workloads grow and evolving needs arise.

Adaptive Trunking and Low Latency

Industry-leading ASICs deliver sub-200ns latency per port and adaptive trunking capabilities. This ensures optimal load balancing across stacking links and reliable, high-speed data movement for mission-critical applications, all with no additional licensing fees.

Seamless Heterogeneous SAN Integration

Transparent Router (TR) functionality enables seamless interoperability between HP B-series, C-series, and H-series SANs. This provides non-disruptive access to existing servers and storage resources as you expand or modernize network infrastructure.

Centralized Management Platform

Bundled SCM software provides a unified interface for provisioning storage, configuring zones, and managing HBAs or switches. Integration with Virtual Connect Enterprise Manager enables end-to-end management, reducing administrative overhead and lowering errors.

Robust Reliability and Availability

Featuring hot-swappable power supplies and fans in selected models, the SN6000 is built for high-availability environments. Support for non-disruptive firmware upgrades and stacking ensures minimal downtime and business continuity.

Cost-Effective Optics and Accessories

The solution supports affordable HP-standard SFP/SFP+ modules at 4/8Gbps with no hidden costs for trunking or advanced management features. This allows organizations to deploy enterprise-class SANs on a budget, maximizing return on investment.

Future-Proofed Investment

By enabling non-disruptive upgrades and multi-stack support, the SN6000 protects existing investments even as capacity demands increase. The system can evolve over time without requiring costly re-architectures or forklift replacements.

Technical Specifications

Product Specifications

Feature	Value
Device Type	Switch - 8 ports - Managed
Subtype	Fibre Channel
Ports	8 x 8Gb Fibre Channel SFP+
Management Interface 1	1 x 100Base-TX RJ-45 management
Management Interface 2	1 x serial (RS-232) DB-9 management
Additional Interfaces	20 x SFP+
Enclosure Type	Rack-mountable 1U
Rack Mounting Kit	Included
Duplex Capability	Full duplex capability
Auto-sensing per device	Yes
Manageable	Yes
TFTP Support	Trivial File Transfer Protocol (TFTP) support



Feature	Value
Encryption Algorithm	SSL
Fibre Channel Standards	FC-AL-2, FC-DA, FC-GS-4, FC-Tape, FC-VI, FC-SP, FC-LS, FC-MI-2, FC-PI-4, FC-FS-3, FC-GS-6, FC-PI-3, FC-SW-5
Remote Management Protocol	SNMP, TFTP, SMI-S, CLI
Height	47.6 cm
Width	43.3 cm
Depth	4.3 cm
Version	Original
Voltage Required	AC 120/230 V (50/60 Hz)
Max Operating Temperature	45 °C
Min Operating Temperature	0 °C
Max Storage Temperature	70 °C
Min Storage Temperature	-40 °C
Humidity Range Operating	15 - 85% (non-condensing)
Humidity Range Storage	5 - 90% (non-condensing)

Product Comparison

Feature	AW575B	C9500-24Q-10E	NVIDIA Mellanox MSN3700-VS2R
Port Type	20 x 8Gb Fibre Channel SFP+	24 x 40GbE QSFP+	32 x 100GbE QSFP28
Stacking Capability	Up to 120 FC ports per stack	StackWise Virtual, up to 2 members	Up to 9 switches with MLAG
Stack/Uplink Bandwidth	4 x 10/20Gbps ISL ports	Up to 960 Gbps StackWise Virtual	6.4Tbps switching capacity
Management	SAN Connection Manager, VCEM	Cisco DNA Center, CLI, SNMP	Onyx OS, CLI, SNMP, REST API
Redundant Power Support	On select models (hot-swappable dual PSU)	Dual redundant, hot-swappable	Dual redundant, hot-swappable
Typical Usage	Fibre Channel SAN environments	High-density campus/core	Data center spine/leaf



Feature	AW575B	C9500-24Q-10E	NVIDIA Mellanox MSN3700-VS2R
Integrated SAN Functions	Transparent Router, SCM, Adaptive Trunking	N/A	N/A
Dimensions (W x D x H)	43.3 cm x 4.3 cm x 47.6 cm	44.5 cm x 46 cm x 4.4 cm	43.8 cm x 56.6 cm x 4.3 cm

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power Adapter - Rack Mount Kit - Quick Start Guide
Optional Accessories	<ul style="list-style-type: none"> - SFP+ Transceiver Module - Additional Stacking Cables - Redundant Power Supply



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Phone

USA: +1-626-655-0998

Hong Kong: +852-25925389 / +852-25925411

Global Footprint

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Global Branches

Hong Kong Branch

Rm 605, 6/F, Fa Yuen Comm Bldg, 75-77 Fa Yuen St, Mongkok, Kowloon, Hong Kong, China

USA Branch

35 E Horizon Ridge Pkwy, Ste 110 #30131, Henderson, NV 89002, USA

Shenzhen Branch

Jingfeng Building, 1001 Shangbu South Road, Futian District, Shenzhen, China

UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK



References

[1] HPE. (2021). HP SN6000 Stackable 8Gb Fibre Channel Switch - AW575B Datasheet. Retrieved from <http://cdn.cnetcontent.com/50/0c/500c3e7f-2864-4c29-864f-246e7063c3cd.pdf>