

OceanStor SNS2124/2224/2248 FC Storage Switch



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HUAWEI OceanStor SNS2124, 2224, and 2248 are Fibre Channel (FC) switches oriented to small-scale independent SANs and edge topologies of large-scale core switching networks. The SNS2124, 2224, and 2248 are designed to reduce enterprises' SAN costs while improving SAN scalability and ease of use. The SNS2124, 2224, and 2248 are the most cost-effective choices for network expansion.

Product Features

Superb Cost-Effectiveness and Efficiency

- **ISL link aggregation:** frame-based link aggregation combines multiple ISL links into one logical link for efficient bandwidth use and load balancing.
- **High bandwidth:** Unblocked architecture is used, allowing SNS switches to run at a rate in full configuration (full duplex). The SNS2248 supports a maximum of 1536 Gbit/s without bandwidth congestion.
- **Port automatically-sensing:** The SNS2124 automatically adapts to 1 Gbit/s to 8 Gbit/s. The SNS2224 and SNS2248 automatically adapt to 2 Gbit/s to 16 Gbit/s. In addition, SFP backward compatibility is provided. Therefore, on-demand investment is available.
- **On-demand port scalability:** Incremental port expansion implements on-demand scalability from the single-switch fabric architecture to the all-fabric enterprise function.

Ease of Use

- **Quick installation:** The installation wizard helps you easily install and configure SNS switches. Switch configuration, deployment, and management can be simply implemented at mouse clicks.
- **Simplified management:** In a multi-switch environment, Network Advisor provides comprehensive functions to manage data center fabric architecture. For example, it allows you to configure, monitor, and manage backbone networks, switches, and adapters.
- **Outstanding compatibility:** SNS switches are compatible with

Microsoft Simple SAN. In addition, the switches provide a USB port that improves ease of maintenance and obtains error records by simplifying firmware upgrade and downloading system log files.

Quick Deployment

- **Easy to deploy and manage:** SNS switches can be easily integrated with new and existing IT environments.
- **On-demand expansion:** Ports can be increased on demand. Enterprises can expand their storage networks on demand without affecting ongoing services.

Excellent Scalability

- **Organic component of virtual private cloud storage:** An SNS switch can serve as a key component in a highly virtualized private cloud storage environment. SNS switches simplify server virtualization and virtual desktop infrastructure (VDI) management as well as meet SSDs' high throughput requirements. SNS switches also support the multi-tenancy function based on QOS and zoning that is based on fabric architecture. SNS switches support dense wavelength division multiplexing (DWDM) links, allowing a MAN to be securely expanded to a virtual private cloud or hybrid cloud. Based on SAN architecture, SNS switches also provide LAN-free backup and efficient data center resource management, improving the overall system performance and productivity.

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Technical Specifications

Model	SNS2124	SNS2224	SNS2248
Hardware Specifications			
Number of ports	A maximum of 24 ports, where 8, 16, and 24 general-purpose ports can be configured at an increment of 8 ports	A maximum of 24 ports, where 12 and 24 general-purpose ports can be configured at an increment of 12 ports	A maximum of 48 ports, where 24, 36, and 48 general-purpose ports can be configured at an increment of 12 ports
Port types	FL_Port, F_Port, M_Port, E_Port, U_Port, N_Port	D_Port, E_Port, F_Port, M_Port, U_Port	D_Port, E_Port, EX_Port, F_Port, M_Port, U_Port
Port rate	1, 2, 4, 8 Gbit/s	2, 4, 8, 16 Gbit/s	
Maximum latency	Local switching port: 700 ns		
Total bandwidth	192 Gbit/s: 24 ports x 8 Gbit/s Or 384 Gbit/s: 24 ports x 8 Gbit/s x 2 (full duplex)	384 Gbit/s: 24 ports x 16 Gbit/s Or 768 Gbit/s: 24 ports x 16 Gbit/s x 2 (full duplex)	768 Gbit/s: 48 ports x 16 Gbit/s Or 1536 Gbit/s: 48 ports x 16 Gbit/s x 2 (full duplex)
Media type	SFP, SFP+, LC connector, SWL, LWL, ELWL	SFP+, LC connector, SWL, LWL, ELWL	
Maximum frame size	2112 byte payload		
Frame buffer	700 frames dynamically assigned; a maximum of 484 frames per port	8192 frames dynamically assigned	
Scalability	Full fabric architecture with a maximum of 239 switches		
Service class	Class 2, Class 3, Class F (inter-switch frames)		
USB	One USB port used for downloading system log files or upgrading microcode		
Software Features			
GUI	Indicators for key components, Web-based management page, and fault location messages		
Manageability	Telnet, HTTP, SNMP v1/v3 (FE MIB, FC Management MIB); auditing, system logs, change management tracking; SMI-S compliant; SMI-S script toolkit; administrative domains; trial licenses for add-on capabilities		
Physical Specifications			
Power supply	AC 85 V to 264 V, 1 A to 0.5 A	AC 85 V to 264 V, 5 A to 2.5 A	AC 85 V to 264 V, 5 A to 2.5 A
Dimensions (H x W x D)	1 U, 43 mm x 429 mm x 307 mm (1.69 in. x 16.88 in. x 12.07 in.)	1 U, 43 mm x 438 mm x 443 mm (1.7 in. x 17.23 in. x 17.45 in.)	1 U, 43 mm x 438 mm x 443 mm (1.7 in. x 17.23 in. x 17.45 in.)
Weight	4.2 kg (9.30 lbs), without SFP/SFP+ media	7.82 kg (17.25 lb) with one power supply, without transceivers 9.16 kg (20.19 lb) with two power supply FRUs, without transceivers	9.16 kg (20.20 lb) with two power supply FRUs, without transceivers

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