OceanStor SNS2224 Data Sheet

OceanStor SNS2224

Huawei OceanStor SNS2224 is an intelligent Fibre Channel storage switching platform featuring flexible, easy-to-use, enterprise-Class SAN Switch for Private Cloud Storage. With its unprecedented scalability, small footprint, easy management and maintenance, and low total cost of ownership (TCO), the SNS2224 switch offers enterprises and datacenters the best choice.

Highlights

HIGHLIGHTS

- Inter-Switch Link (ISL) Fiber Expansion: Based on frame link aggregation, multiple ISL links is combined into one logical link, in order to achieve efficient bandwidth utilization and load balancing.
- Ports Auto-sensing: auto-sensing 2, 4, 8, and 16 Gbps capabilities, future-proofs investments by enabling organizations to use 8 Gbps SFPs today and upgrade to 16 Gbps SFPs when required.
- Dual Functionality: Offers dual functionality as either a full-fabric SAN switch or as an NPIV-enabled Access Gateway that simplifies server connectivity in heterogeneous enterprise fabrics.
- pay-as-you-grow: Enable pay-as-you-grow expansion with Ports On Demand scalability from 12 to 24 ports in 12-port increments

EXCEPTIONAL PRICE/PERFORMANCE FOR GROWING SAN WORKLOADS

The SNS2224 combines market-leading throughput with an affordable switch form factor, making it ideal for growing SAN workloads. The 24 ports produce an aggregate 384 Gbps full-duplex throughput; any eight ports can be trunked for 128 Gbps Inter-Switch Links (ISLs). Exchange-based Dynamic Path Selection (DPS) optimizes fabric-wide performance and load balancing by automatically routing data to the most efficient and available path in the fabric. It augments ISL Trunking to provide more effective load balancing in certain configurations.

In addition, the SNS2224 provides a low Total Cost of Ownership (TCO) thanks to a 12-port base configuration, easy administration, 1U footprint, and low-energy consumption — 0.22 watts per Gbps and 3.3 watts per port. Enterprise-class capabilities combined with a low TCO yield 40 percent higher performance compared to 10 Gigabit Ethernet (GbE) alternatives at a similar cost.

INDUSTRY-LEADING TECHNOLOGY THAT IS FLEXIBLE, SIMPLE, AND EASY TO USE

The SNS2224 delivers industry-leading SAN technology within a flexible, simple, and easy-to-use solution. The base configuration includes 12 ports, with up to 24 ports on demand. In addition to providing best-in-class scalability.

A BUILDING BLOCK FOR VIRTUALIZED, PRIVATE CLOUD STORAGE

The SNS2224 provides a critical building block for today's highly virtualized, private cloud storage environments. It simplifies server virtualization and Virtual Desktop Infrastructure (VDI) management while meeting the high-throughput demands of Solid State Disks (SSDs). The SNS2224 also supports multi-tenancy in cloud environments through Quality of Service (QoS) and fabric-based zoning features.

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Technical Specifications

Model	SNS2224
Hardware Specifications	
Number of Ports	Switch mode:Total 24 ports 12-port increments through Ports on Demand licenses to universal(E, F, M, FL) ports
Port Type	D_Port (Diagnostic Port), E_Port, EX_Port, F_Port, M_Port Self-discovery based on switch type (U_Port)
Port Rate	Auto-sensing of 2, 4, 8, and 16 Gbps port speeds
Switching Latency	Latency for locally switched ports is 700 ns
Aggregate Bandwidth	384 Gbps end-to-end full duplex
Medium Type	Hot-pluggable, industry-standard SFP+, LC connector; Short-Wavelength (SWL), Long-Wavelength (LWL); Extended Long-Wavelength (ELWL); Distance depends on fiber optic cable and port speed. Supports SFP+ (8 and 16 Gbps) optical transceivers
Maximum Frame Size	2112 byte payload
Frame Buffers	8192 dynamically allocated
Scalability	Full-fabric architecture with a maximum of 239 switches
Classes of Service	Class 2, Class 3, Class F (inter-switch frames)
USB	One USB port for system log file downloads or firmware upgrades
Software Feature	
Visualized User Interface	Indicators for key components, Web-based management and fault location indication
Interoperability and Certification	Compatible with FC-SW-2 compliant devices, including servers, storage systems, HBAs, and application software of mainstream vendors Certified by FCIA SANmark and SNIA SMI-S
Manageability	HTTP, SNMP v1/v3 (FE MIB, FC Management MIB), SSH; Auditing, Syslog; SMI-S compliant; Administrative Domains; trial licenses for add-on capabilities
Physical Specifications	
Power Supply	AC 85 V to 264 V ~5 A to 2.5 A
Power Consumption	80 watts with all 24 ports populated with 16 Gbps SWL optics 60 watts for empty chassis with no optics
Dimensions (H x W x D)	1U, 43mm (H)* 438mm(W)*443mm(D)
Weight	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

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