OceanStor SNS2124 Data Sheet

OceanStor SNS2124

Huawei OceanStor SNS2124 is a intelligent Fibre Channel (FC) switch applicable in a small and independent storage area network (SAN) and at the edge of a large-sized core switching network. The SNS2124 meets the enterprise SAN switching needs and helps reduce enterprise SAN costs with the superior switching performance, powerful scalability, and easy to manage features.

Highlights

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- **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 1, 2, 4, and 8 Gbps capabilities, Support 4 Gbit / sec SFP and 8 Gbit / sec SFP, demand investment
- **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 8 to 16 or 24 ports in 8-port increments

INCREASED EFFICIENCY TO MANAGE BUSINESS GROWTH

The SNS2124 significantly increases performance and functionality for SANs at an entry-level price. Based on sixth-generation FC technology, combines auto-sensing 1, 2, 4, and 8 Gbps throughput with features that greatly enhance fabric operation. The evolutionary design provides these capabilities while consuming less than 2.5 watts of power per port for exceptional power and cooling efficiency.

As a result, organizations can enjoy the advantages of low-cost device connectivity and powerful capabilities that make SAN technology highly accessible and affordable.

In addition, hot code load and activation help maximize application uptime with faster system software upgrades and maintenance to reduce the dependency on scheduled outages.

SUPERIOR NETWORK PERFORMANCE

The SNS2124 provides high performance with all ports capable of operating at 1, 2, 4, and 8 Gbps to enable up to 192 Gbps of uncongested throughput. Auto-sensing and speed-matching of data traffic provides interoperability with previous 1, 2, and 4 Gbps devices. To provide more targeted performance, enhanced Inter-Switch Link (ISL) Trunking combines up to eight ISLs between a pair of switches into a single, logical high-speed trunk capable of up to 64 Gbps of throughput.

A BETTER WAY TO IMPROVE BUSINESS OPERATIONS

One of the primary benefits of a SAN environment is the consolidation of hardware resources. This centralized approach helps increase operational efficiency and staff productivity, two critical requirements for small and medium-sized organizations. With fewer physical resources to manage, staff members can handle additional business growth or focus on other strategic initiatives.

High-performance 8 Gbps Fibre Channel capabilities speed data transfer to help keep data flowing and applications running. As a result, organizations can significantly improve storage utilization in distributed e-mail environments, for example. In addition, a SAN-based architecture enables LAN-Free backup and more efficient data center resource management — increasing overall system performance and productivity.

Technical Specifications

Model	SNS2124
Hardware Specifications	
Number of ports	Switch mode: Total 24 ports 8-port increments through Ports on Demand licenses to universal(E, F, M, FL) ports
Port Type	FL_Port, F_Port, M_Port (Mirror Port), E_Port Self-discovery based on switch type (U_Port) Access Gateway mode: F_Port and NPIV-enabled N_Port
Port Rate	1.063 Gbps line speed, full duplex; 2.125 Gbps line speed, full duplex 4.25 Gbps line speed, full duplex; 8.5 Gbps line speed, full duplex auto-sensing of 1, 2, 4, and 8 Gbps port speeds
Switching Latency	700 ns with no contention, cut-through routing at 8 Gbps
Backplane Bandwidth	408 Gbps: 24 ports × 8.5 Gbit/sec (data rate) * 2(Full-duplex)
Medium Type	FC port: hot-pluggable, industry-standard 3.3 V SFP+ transceivers for 8 Gbit/s ports, compatible with 4 Gbit/s and 2 Gbit/s SFP transceivers Distance depends on fiber-optic cable and port speed
Maximum Frame Size	2112-byte payload
Frame Buffers	700 dynamically allocated, 484 maximum per port
Scalability	Full fabric architecture with 239 switches maximum
Classes of Service	Class 2, Class 3, Class F (inter-switch frames)
USB	1 USB port for firmware download, support save, and configuration upload/download
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), Telnet; auditing, change management tracking, Syslog; SMI-S compliant, SMI-S scripting toolkit; Administrative Domains; trial licenses for add-on capabilities
Physical Specifications	
Power Supply	AC 85V(1A) ~ 264V(0.5A), 47 ~ 63Hz
Power Consumption	Nominal 48 watts; maximum 57 watts with 24 ports at 8 Gbps
Dimensions (H x W x D)	1U, 42mm (H)* 429mm(W)*307mm(D)
Weight	4.2 kg (9.30 lbs), without SFP/SFP+ media