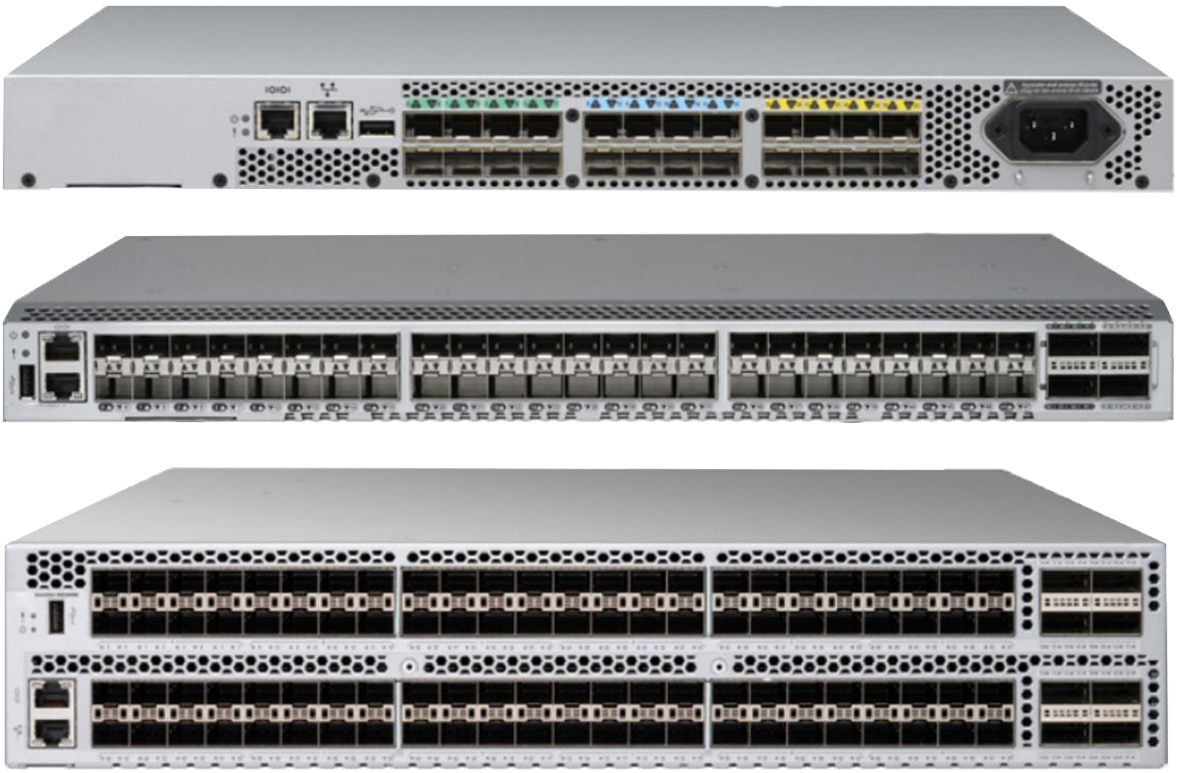
OceanStor
SNS 2624-G/3664-G/3696E-G
Fiber Optic Storage Switch

Datasheet



Product Overview

The OceanStor SNS 2624-G/3664-G/3696E-G Fibre Channel switches are designed for the network infrastructure of critical storage services. FabricVision, the industry's latest sixth-generation Fibre Channel technology, delivers unmatched 32Gbps performance, increased scalability and operational stability to support hyperscale virtualization, larger cloud infrastructures and growing flash storage environments.

Technical Specification

Model Number	SNS 2624-G	SNS 3664-G	SNS 3696E-G
System Architecture			
Number of Ports	Switch mode (default) :Up to 24 ports Access gateway default port mapping: 16 F ports, 8 N ports	Switch mode (default) :Up to 64 port Access gateway Default port mapping: 40 SFP+ F ports, 8 SFP+ N ports	Switch mode (default) :Up to 128 ports
Port Type	F port, E port, M port, D port (ClearLink diagnostic port); Access gateway mode: F port and N port that supports NPIV technology	D port (ClearLink diagnostic port), E port, EX port, F port, AE port; Optional port type control; Access gateway mode: F port and N port supporting NPIV technology	D port (ClearLink diagnostic port), E port, EX port, F port, AE port; Optional port type control;
Expandability	Fully connected Fabric architecture with up to 239 switches		
Standard Maximum Number of Supports	6000 active nodes in Fabric architecture; 56 switches, 19 hops; Larger Fabric certifies on demand		
Performance	Fibre Channel: 4.25Gbps line speed, full duplex; 8.5Gbps line speed, full duplex; 14.025Gbps line speed, full duplex; 4, 8, 16 and 32Gbps port speed adaptive	Fibre Channel: 4.25Gbps line speed, full duplex; 8.5Gbps line speed, full duplex; 10.53Gbps line speed, full duplex; 14.025Gbps line speed, full duplex; 28.05Gbps, full duplex; 112.2Gbps, full duplex; 4, 8, 16 and 32Gbps port speed adaptive, can support 128Gbps speed; 10Gbps can optionally be set to a fixed port speed	Fibre Channel: 4.25Gbps line speed, full duplex; 8.5Gbps line speed, full duplex; 10.53Gbps line speed, full duplex; 14.025Gbps line speed, full duplex; 28.05Gbps, full duplex; 112.2Gbps, full duplex; 4, 8, 16 and 32Gbps port speed adaptive, can support 128Gbps speed; 10Gbps can optionally be set as a fixed port speed; QSFP port adaptive 4×4, 4×8, 4×16 and 4×32Gbps port rates
ISL Trunking	Frame-based link bundling, with up to eight 32Gbps ports per ISL bundling link; Up to 256Gbps transmission rate per ISL bundled link; Use the DPS included in the Fabric OS to achieve switch-based load balancing among ISLs	Frame-based link bundling, with up to eight 32GbpsSFP+ ports per ISL bundled link; And a maximum of 2 128GbpsQSFP ports per ISL bundled link. Implement switch based load balancing between ISLs using DPS included in the Fabric OS	Frame-based link bundling, with up to eight 32GbpsSFP+ ports per ISL bundled link; And a maximum of 2 128GbpsQSFP ports per ISL bundled link. Implement switch based load balancing between ISLs using DPS included in the Fabric OS
Total Bandwidth	768Gbps (point-to-point full duplex)	2 Tbps	4 Tbps
Maximum Fiber Network Architecture Latency	Local switch port latency ⩽ 900 ns (including FEC)	Local switch port port delay ⩽780 ns (including FEC); 1 μs delay per compressed node	Local switching port port delay ⩽780 ns (including FEC); Local port switching delay of different port groups is 2.6μs
Maximum Frame Size	2112 byte payload		
Frame Buffering	2,000, dynamic allocation	15,360, dynamic allocation	15,360, dynamic allocation

Grade of Service	Class 2, Class 3, Class F (interswitch frame)		
Type of Data Traffic	Fabric switches support unicast traffic		
USB	1USB Port for system log file downloads or microcode upgrades		
Extensions	/	Optional integrated 10Gbps Fibre Channel for DWDM MAN connection	Optional integrated 10Gbps Fibre Channel for DWDM MAN connection; Support for in-line compression
Administration			
Manage Access	10/100/1000 Mbps Ethernet (RJ-45) interface for in-band management via Fibre Channel; Serial port (RJ-45); 1USB Port		
Mechanical Parameters			
Housing	Rear-front ventilation (rear-in air before out-out air); Rear end power supply, 1U	Front and rear ventilation (forward air and out air); Rear end power supply, 1U Rear-front ventilation (rear-in air and rear-out air); Rear end power supply, 1U	Front and rear ventilation (forward air and out air); Rear end power supply, 2U Rear-front ventilation (rear-in air and rear-out air); Rear end power supply, 2U
Dimension	Width: 42.88 cm (16.88 in) Height: 4.29 cm (1.69 in) Depth: 30.66 cm (12.07 in)	Width: 42.88 cm (16.88 in) Height: 4.29 cm (1.69 in) Depth: 30.66 cm (12.07 in)	Width: 440mm (17.32 in) Height: 86.7mm (3.41 in) Depth: 609.6mm (24 in)
System Weight	5.75kg (12.67 lb), single power supply, no transceiver	7.73kg (17 lb), dual power FRU, no transceiver	21.31kg (47 lb), dual power FRU, three fans, no transceiver
Environment			
Operating Environment	Temperature: 0°C to 40°C/32°F to 104°F Humidity: 10% to 85%, non-condensing		
Non-operating Environment	Temperature: -25°C to 70°C/-13°F to 158°F Humidity: 10 to 90 percent, non-condensing		
Altitude of Operation	Up to 3,000 m (9,842 ft)		
Storage Elevation	Up to 12,000 m (39,370 ft)		
Impact	Run: 20 G, 6 ms, half sine Non-run: Half sine, 33 G, 11 ms, 3G Axis	Run: 20 G, 6 ms, Half sine Non-run: Half sine, 33 G, 11 ms, 3/eg Axis	Run: 20 G, 6 ms, Half sine Non-run: Half sine, 33 G, 11 ms, 3/eg Axis
Vibration	Run: 0.5g sine, 0.4grms random, 5 to 500Hz Non-run: 2.0g sine, 1.1grms random, 5 to 500Hz		
Heat Dissipation	24 ports: 215 BTU/ hour	64 ports: 716 BTU/ hour	128 ports: 3512 BTU/ hour
Power Supply			
Power Supply/Fan	Single stationary power supply with four integrated system cooling fans	Dual hot-swappable redundant power supply with integrated system cooling fan	Dual hot-swappable redundant power supply with integrated system cooling fan, single hot-swappable independent redundant fan
AC Input	90 V to 264 V with a maximum input current of 2.2A	90 V to 264 V, about 3.5A	90 V to 264 V, about 12 A
AC Input Line Frequency	47 Hz to 63 Hz		
AC Power Consumption	76.52 watts for 24 32GbpsSWL optical modules; An empty chassis with no optical module installed is 55.83 watts	64 ports fully loaded (48×32Gbps SFP+ SWL optical module and 4×128Gbps QSFPSWL optical module) is 204 watts; 85 watts for an empty chassis with no optical module installed	128 ports fully loaded (with 96×32Gbps SFP+ SWL optical module and 8×128GbpsQSFPSWL optical module) 942 watts; 495 watts for an empty chassis with no optical module installed

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