● NS385S-8026

New 6Gb/s SAS Expansion

Rackmount 12 / 16 / 24 Bay SAS to SAS/SATA JBOD Chassis with Built-in SAS Expander

» Robust 2U/3U/4U rackmount chassis
» Backplane design for multiple bays SAS/SATA hard disk drives
» Built-in 6Gb/s SAS expander for single mini-SAS(SFF-8088) data cable connectivity
» Support two mini-SAS ports for next storage expansion
» LCD control panel for setup, alarm mute and configuration
» Individual key lock on each hard disk drive tray for physical security
» LED indicators for HDD power, activity and failure on each removable tray

Overview

Netstor's new enterprise-class 2U/3U/4U 6 Gb/s SAS expander JBOD series is designed to provide storage expansion for SAS RAID controller or SAS RAID adapter (SAS HBA). The enclosure is equipped with latest 6Gb/s SAS expander supporting twelve (2U), sixteen (3U), and twenty-four (4U) high reliable SAS or high capacity SATA hard disk drives from only one mini-SAS data cable for host connectivity and providing two more mini-SAS ports allowing a scalability of up to 7 units of SAS expander enclosure for most cost-effective storage expansion.

Advanced Storage Management

The 2U/3U/4U SAS expander series provides twelve/sixteen/twenty-four removable hard disk drive trays and each tray has built-in power, activity and failure LED indicators showing the status of each hard disk drive; moreover, the enclosure integrates an LCD control panel for complete storage management in easy system setup, alarm mute and configuration.
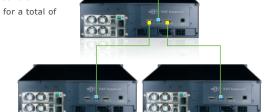
SAS Expansion Technology

With only one mini-SAS cable connection to host, the SAS expansion technology allows a maximum of 128 hard disk drives to be used. The highly reliable and high-speed mini-SAS cable provides high-bandwidth data throughput for storage as well as cascaded SAS Expander enclosures, integrating high capacity SATA or high reliable SAS hard disk drives for high quality video or data intensive applications. All the management features are available from all cascaded NS320S-8026/NS330S-8026/NS385S-8026 SAS Expander enclosures through SES-2 enclosure management via only one external mini-SAS SFF-8088 port and connection between host SAS controller card and SAS Expander enclosures.

Connectivity Diagram

Netstor's SAS Expansion series is built-in high performance SAS expander module and provides both SAS In and SAS Out port(s) for up to 6× NS385S-8026, 8× NS330S-8026 or 11× NS320S-8026 SAS to SAS/SATA JBOD cascaded for a total of 128 hard drives and 384 TB storage capacity.

■ SAS in
■ SAS EXP. out

Specifications

Model	NS320S-8026	NS330S-8026	NS385S-8026
Form Factor	2U 12 bay	3U 16 bay	4U 24 bay
Host Interface	Single mini-SAS (SFF-8088)		
HDD Interface	SAS / SATA (3/6 Gbps)		
No. of Disk(s)	Up to 12	Up to 16	Up to 24
RAID Function	JBOD/RAID		
SAS Expander	Built-in SAS Expander		
Expansion Port	Two mini-SAS connectors for next storage expansion		
LED Display for Each Tray	White - power-on indicator Blue - busy (HDD access) indicator		
LCD Control	LCD control panel for setup, alarm mute and configuration		
LED Display for Enclosure	1. Enclosure power LED：Green - Power On 2. Busy LED：Flash green - Host computer accessing the enclosure 3. Fault LED：Red - Enclosure failure		
Material	Heavy-duty cold-rolled steel housing		
Power Supply	mini-redundant 400 W PSU 100-240 V AC, 50/60 Hz universal		Universal Redundant 650W (Server-grade) Input: 90-230 VAC/50-60 HZ
Cooling	Two 75×75×28 mm hot-swappable blowers		Three 90 x 90 x 25 mm and Two 60 x 60 x 25 mm fans
Alarm	Buzzer beeping for fan failure or over-temperature occurs		
External Enclosure Management	SES-2 protocols over SAS ports		
Dimension	559(D)×482(W)×88(H) mm 22(D)×19(W)×3.5(H) inch	559(D)×482(W)×131(H) mm 22(D)×19(W)×5.16(H) inch	559(D)×482(W)×176(H) mm 22(D)×19(W)×6.93(H) inch
O.S. Support	O.S. independent		

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