



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

- Robust 2U/3U 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

CB-NS320S/CB-NS330S is an enterprise-class 2U/3U 6 Gb/s SAS expander JBOD series 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) or sixteen (3U) 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 SAS expander series provides twelve/sixteen 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.

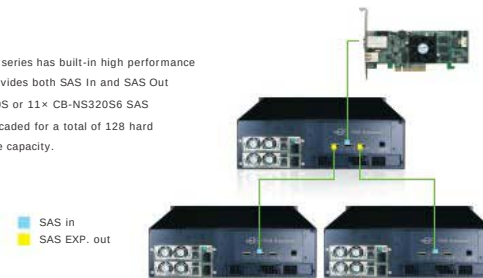


### SAS Expansion Technology

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 CB-NS320S/CB-NS330S 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 CB-NS320S/CB-NS330S enclosures through SES-2 enclosure management via only one external mini-SAS SFF-8088 port and connection between host SAS controller card and CB-NS320S/CB-NS330S.

### Connectivity Diagram

The enterprise SAS Expansion series has built-in high performance SAS expander module and provides both SAS In and SAS Out port(s) for up to 8× CB-NS330S or 11× CB-NS320S6 SAS to SAS/SATA JBOD can be cascaded for a total of 128 hard disk drives and 384 TB storage capacity.



### Specifications

| Model                         | CB-NS320S                                                                                                                                    | CB-NS330S                                           |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Form Factor                   | 2U 12 bay                                                                                                                                    | 3U 16 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                                            |
| 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<br>Blue - busy (HDD access) indicator                                                                             |                                                     |
| LCD Control                   | LCD control panel for setup, alarm mute and configuration                                                                                    |                                                     |
| LED Display for Enclosure     | Enclosure power LED: Green - Power On<br>Busy LED: Flash green - Host computer accessing the enclosure<br>Fault LED: Red - Enclosure failure |                                                     |
| Material                      | Heavy-duty cold-rolled steel housing                                                                                                         |                                                     |
| Power Supply                  | mini-redundant 400 W PSU<br>100-240 V AC, 50/60 Hz universal                                                                                 |                                                     |
| Cooling                       | Two 75×75×28 mm hot-swappable blowers                                                                                                        |                                                     |
| Alarm                         | Buzzer beeping for fan failure or over-temperature (over 50°C) occurs                                                                        |                                                     |
| External Enclosure Management | SES-2 protocols over SAS ports                                                                                                               |                                                     |
| Dimension                     | 559(D)×482(W)×88(H) mm<br>22(D)×19(W)×3.5(H) inch                                                                                            | 559(D)×482(W)×131(H) mm<br>22(D)×19(W)×5.16(H) inch |
| O.S. Support                  | O.S. independent                                                                                                                             |                                                     |