



EliteSTOR ES316X6+B

3U 16-Bay 6G SAS/SATA to SAS JBOD Storage with SAS Expander



The **EliteSTOR ES316X6+B** is a 3U 16-Bay SAS 6G JBOD Storage for high capacity storage solution. Utilizing the latest 6G SAS expander technology, the ES316X6+B provides over 24 Gb/s or 2,400MB/s of bandwidth to fulfill the most demanding application. The ES316X6+B supports 6G SAS or SATA III hard drives or SSD and is backward compatible to 3G SAS & SATA hard drives. By utilizing the latest SAS expander technology, the ES316X6+B supports up to 16 SAS or SATA drives using only one mini-SAS cable. A built-in SAS expansion port enables the system to connect up to 5 units or 120 HDD drives daisy-chained together. With a high performance RAID controller card such as Areca ARC-1882X, LSI 9280-8E, ATTO R680, etc the ES316X6+B is capable of delivering over 1,700MB/s in read and 1,500MB/s write performance, doubling the existing 6G SAS expander bandwidth. System status information is provided by the LED, including hard drives, power supply and cooling fan status. All necessary hardware comes standard including mini-SAS cable, hard drives tray modules and built-in mounting rail. The ES316X6+B is an ideal storage expansion solution for servers or high performance video editing workstations.

Features

- **6G SAS Expander Technology** - Connect 16 x 6G SAS or SATA III drives with only one single SFF-8088 to 8088 Mini-.SAS cable to HBA (Host Bus Adapter).
- **Superior Performance** - With support of SATA 6G or SAS 6G hard drives and 24Gbps bandwidth, performance can reach over 1,700MB/s in read and 1,500MB/s in write (tested with LSI9280-8E).
- **Staggering Spin-Up** - Built-in staggering spin-up for hard drives during power up. Thus, extending the life / duty cycle of the hard drives and power supply.
- **Support Industry Standard SGPIO** - Serial General Purpose Input/Output (SGPIO) is utilized to provide the hard drives health & enclosure real-time information via the mini-SAS connection cable to the HBA (host Bus Adapter) without additional serial cable.
- **Scalability** - Supports up to 5 enclosures or up to 120 hard drives daisy-chained together for capacity expansion.
- **Multi-purposes** - Supports both SAS (Serial SCSI) and SATA hard drives to meet the requirements of different applications with different price/performance characteristics. Cost-effective SATA drives could be used for capacity orientated storage such as disk-to-disk backup, data-archiving, and digital video editing. Enterprise level SAS drives could be employed for I/O intensive applications such as transactional databases.
- **Standard Redundant Power Supply** - Hot-swappable, redundant power is included for protection against power

failure. Power supply status can be easily monitored by the status LED and audible alarm alert.

- **All hardware is included** - Mini-SAS cable, cooling fan, tray modules and build-in mounting rail are included. By connecting to a SAS controller and hard drives will instantly increase the storage space.

Wide Range RAID Adapters Support - Compatible with Areca, Adaptec, ATTO, LSI, Intel, 3Ware, etc.

Specifications

HDD Trays

16 Hot-Swappable 3.5" Drive Bay

RAID mode supported

JBOD (RAID is supported by additional RAID card)

Maximum Capacity

64TB, Expandable to 480TB

Drive Interface

SAS 6G or SATA 6G

Supported RAID Controller

Areca, Adaptec, ATTO, LSI, Intel, 3Ware, etc.

Host Interface

6G SAS Expander, Mini-SAS / SFF-8088 x 1

Expansion Ports

Mini-SAS / SFF-8088 x 1 (Up to 5 units supported)

Cooling Fan

4" Cooling fan * 2, 2" Cooling fan * 2 from Power Supply

Power Supply

Redundant 650W Power Supply * 2

Controller Interface

Via RAID Controller

Status Indicators

Hard Drive & Failure LEDs

Dimension (in) & Weight (lb)

5.25" H x 19" W x 23" D & 54.0

Safety Regulations

CE, FCC, UL, RoHS

Limited Warranty

3 Years