

SANS DIGITAL[®] AccuSTOR AS316X6S / AS316X6R

3U 16-Bay 6G SATA / 6G SAS to 6G SAS JBOD Single/Redundant Controller Rackmount



The **AccuSTOR AS316X6S / AS316X6R** is a high density 3U rackmount designed for storage hungry applications, and accommodates up to 64TB of storage space. Supporting latest SAS 6G technology, AS316X6S/AS316X6R provides 6G solution for 6G SAS or 6G SATA drives. By utilizing the latest SAS expander technology, the AS316X6S/AS316X6R supports up to 16 SAS or SATA drives using only one mini-SAS cable (MUX boards are required when using SATA drives with AS316X6R). A built-in SAS expansion port enables the system to connect up to 7 units or 120 HDD drives daisy-chained together, up to 448TB. With a high performance RAID controller card, the AS316X6S/AS316X6R is capable of delivering over 1,700MB/s in read and 1,500MB/s write performance, doubling the existing 3G 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 and hard drives tray modules. (AS316X6S) Build-in with single controller with dual 6G SAS channel, and can upgrade to redundant controller in the future. (AS316X6R) Build-in redundant controller provides high availability option allow automatically failover in event of controller failure. The AS316X6S/AS316X6R is an ideal storage expansion solution for servers or high performance video editing workstations. Supported in Windows, MAC and Linux, including various file system such as ZFS.

AS316X6S/AS316X6R functions as expansion unit of AR316X6 and AR316F8. With AR316X6 and AR316F8 as a RAID head unit and connect up to 7 units of AS316X6S/AS316X6R, it will provide up to 120 bays, or 480TB of storage for 6G SAS and Fibre Channel 8Gbps hardware RAID storage.



AccuSTOR AS316X6S



AccuSTOR AS316X6R

Features

- **6G SAS Expander Technology** - Connect 16 SAS or SATA drives with only one single SFF-8088 to 8088 Mini-SAS cable to HBA (Host Bus Adapter) or RAID controllers. (SATA drives require MUX controller when use in Dual controller mode.)
- **Support 2.5" and 3.5" SATA/SAS/SSD** - 12 of 3.5" hard drives tray supporting 3.5" hard drives, along with 2.5" form factor screw holes. (MUX boards are required when using SATA drives with AS316X6R)
- **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 LSI, ATTO and Areca Controllers)
- **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 7 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. (SATA drives requires optional MUX board)
- **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, and tray modules are included. By connecting to a SAS controller and hard drives will instantly increase the storage space.
- **Dual IO /dual controller for fully redundancy** - System comes with redundant controller, cooling fan and power supply, complete redundant subsystems.
- **Wide Range RAID Adapters Support** - Compatible with Areca, LSI SAS MegaRAID, Intel SAS RAID, Adaptec SAS RAID, and 3Ware SAS RAID adapters.
- **Work as expansion for existing hardware RAID storage** - Supports expansion from AccuRAID subsystems, such as AR316X6R and AR316F8R.

Specifications

HDD Trays

16 Hot-Swappable 3.5" (2.5" hard drive via tray screw holes)

RAID Level

JBOD (RAID is supported by additional RAID card)

Maximum Capacity

64TB (expandable to 7 unit or 448TB)

Auto Rebuilding

Via additional RAID card

Host Interface & Transfer Rate

Quad Channel SAS 6G

Drive Interface

SAS or SATA (SATA drives require MUX controller when use in Dual controller mode)

Cooling Fan

2 x Blower Fans

Power Supply

500W x 2 Redundant Power Supply Modules

Control Interface

RS232, RJ-45 Ethernet

Dimension (in) & Weight (lb)

19"W x 21"D x 5.5"H ; 47 lb (w/o hard drives)