



The **EliteSTOR ES316X6+BHP** is a 3U 16 bay 6G RAID storage rackmount for high capacity storage solutions. The ES316X6+BHP is bundled with a high-performance dual core Areca 1882x RAID controller card that offloads complicated RAID calculations from the computer or the enclosure to the dedicated RAID engine. High performance can be achieved with a lower cost of ownership compared to RAID embedded subsystems. RAID setup and maintenance can be controlled via built-in Web Browser interfaces, and the unit is supportive of e-mail notifications and SNMP trap. Utilizing high bandwidth 2400MB/s mini-SAS (SFF-8088) cabling, the ES316X6+BHP supports SAS or SATA hard drives to deliver superior read / write speeds that are crucial in performance-driven environments such as the video editing industry. The mini-SAS connection combines sixteen hard drive connections into a single cable, reducing possible points of failures while preserving uninterrupted data transfer. A built-in SAS expansion port enables the system to connect up to 5 units or 120 HDD drives daisy-chained together. System status information such as the hard drive, power supply, and cooling fan status are provided by the LED. All necessary hardware comes standard including the mini-SAS cable, hard drive tray modules and built-in mounting rail. The ES316X6+BHP also supports SATA drives, allowing users the option to choose between high performance and high capacity storage solutions.

Features

- **Supports 6G SAS and 6G SATA Technology** - Supports both latest 6G SAS and SATA Drives.
- **High Performance PCIe 2.0 x8 dual core RAID controller card** - Package includes a PCIe 2.0 x8 dual core RAID controller, supporting up to RAID 60. Dedicated Hardware RAID engines provide RAID calculation offloading from the main computer to the controller's process, providing overall higher performance.
- **Superior Performance** - With support of SATA 6G or SAS 6G hard drives and 24Gbps of data and width, performance can reach over 1700MB/s in Read and Write.
- **Web based GUI for management and Monitoring** - Built-in web based GUI for setup and monitoring allow management of the RAID status using a web-browser. Detailed event information is saved in a event log and critical events can be e-mailed using SMTP. SNMP trap is also supported. All management and monitoring can run on any web browser with remote monitoring.
- **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.
- **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 can be used for capacity oriented storage such as disk-to-disk backup, data-archiving, and digital video editing. Enterprise level SAS drives can be employed for I/O intensive applications such as transactional databases.
- **Redundant Power Supply** - Optional hot-swappable, redundant power is useful for protection against power failures. Power supply status can be easily monitored by the status LED and audible alarm alert.
- **All Hardware included** - Bundled with the 6G SAS/SATA RAID controller, Mini-SAS cable, cooling fan, tray modules, and built-in mounting rail.

Specifications

Model

ES316X6+BHP

Form Factor

3U Rackmount

HDD Trays

16 Hot-Swappable 3.5" Drive Bay

RAID mode supported

RAID 0, 1, 3, 5, 6, 10, 30, 50, 60 and JBOD

Maximum Capacity

48TB, Expandable to 360TB

Drive Interface

SAS 6G or SATA 6G (Backward compatible with 3G SAS/SATA HDD)

Host Interface

Mini-SAS / SFF-8088 (w/ PCIe 2.0 x8 RAID Controller)

Cooling Fan

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

Power Supply

Redundant 650W Power Supply * 3

Controller Interface

Web based GUI and BIOS

Status Indicators

Hard Drive & Failure LEDs

Dimension (in) & Weight (lb)

5.25" H x 19" W x 23" D & 46.0 lbs

Safety Regulations

CE, FCC, UL, RoHS

Limited Warranty

3 Years