



# AccuRAID AR316E

3U 16-Bay 6G SATA/SAS to PCIe 2.0 x8 RAID 6 Rackmount w/ SAS Exp.



The **AccuRAID AR316E Series** is a 3U 16 bay rack-mountable RAID solution designed for file servers, backup, audio/video streaming, and digital video recording. It is capable of up to 512TB of capacity with additional AS212X6/AS316X6/AS424X6 JBOD storage expansion units, and is the perfect solution for applications requiring large storage spaces. Build upon hardware RAID engines utilizes in the AccuRAID rackmount unit, the AR316E provides PCI Express 2.0 x8 of 8000MB/s with cutting edge SAS and SATA hard drive technology. The array supports RAID 0, 1, 0+1, 3, 5, 6, 30, 50, 60 and JBOD modes. Featuring durable, heavy duty steel housing and a user-friendly LCD panel, the AR316E is built with Web or RS232 management Interfaces along with SMTP manager monitoring all system events. The AR316E is an easy to use building block for large storage systems, and is guaranteed to achieve the most cost-effective performance and data protection. The AR316E comes with modular RAID controller, redundant power supply and redundant cooling fans, as well as PCIe 2.0 x8 re-driver card and PCIe x8 cable.



## Features

### Architecture

- 800MHz processor with 1GB on-board ECC cache memory (upgradeable to 4GB).
- Support both 3.5" and 2.5" form factor hard drives and SSD.
- SAS / SATA RAID 60 ASIC engine, providing the highest level of data protection.
- PCI Express 2.0 x8 host interface.
- Supports SAS JBOD (AS212X6/AS316X6/AS424X6) expansion with up to a total of 128 drive bays
- Redundant and hot-swappable power supply and cooling fans.
- Support Windows, Linux and Mac operating systems.

### RAID

- Supports JBOD, RAID 0, 1, 1E, 0+1, 3, 5, 6, 30, 50, 60 with hot spare and multiple volumes.
- RAID 6 tolerates multiple drive failures without downtime or data loss, providing the most advanced level of data protection.
- Supports online array roaming, online RAID level / stripe size migration, and online capacity expansion.
- Hot swappable drives that support hot spare and automatic hot rebuilding with automatic drive insertion/removal detection.
- NVRAM transaction log, and S.M.A.R.T. to improve the RAID system integrity, reliability, and availability.

### Management

- Embedded enclosure management through WEB GUI, LCD control panel, and online RAID management via RS-232 port.
- Intuitive, yet comprehensive GUI for configuration and monitoring from remote and local locations.
- Field-upgradeable firmware in flash ROM, redundant RAID controller firmware upgrade via RS-232 and WEB GUI.

## Specifications

### Controller

Single Controller

### Maximum Capacity

64TB, Expandable to 512TB

### Auto Rebuilding

Yes

### Host Interface & Transfer Rate

PCIe 2.0 x8

### Expansion Ports

Mini-SAS x 1, Supports up to 6 additional JBOD units (AS212X6/AS316X6/AS424X6).

### Drive Interface

6G SAS / 6G SATA

### Dimension (in) & Weight (lb)

19"W x 21"D x 5.5"H & 47 lb

### Safety Regulations

CE, FCC, UL, RoHS

### Limited Warranty

3 Years

| phone 886 2 2581 1182 | fax 886 2 2581 0152

| phone 886 4 2319 9311 | fax 886 4 2310 5901