AccuRAID AR316X6(R)

3U 16-Bay 6G SAS to 6G SAS/SATA Enterprise RAID Subsystem

The **AccuRAID AR316X6R** Series are Sans Digital's innovative 3U 16-Bay Enterprise Single (AR316X6) /Redundant controller RAID Subsystem solution designed for data centers, file servers, backup, audio/video streaming, and digital video recording. With redundant components including a controller, cooling fan and power supply, the AS316X6/AR316X6R provides a High Availability (HA) storage solution in mission critical applications. It is capable of up to 512TB of capacity with additional AS212X6/AS316X6/AS424X6 6G SAS JBOD storage expansion units, and is the perfect solution for applications requiring large storage spaces. With an industry proven Dual channel 6G SAS host interface, the AR316X6/AR316X6R provides high performance bandwidth and cutting edge 6G 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 AR316X6R is built with Web or RS232 management Interfaces along with SMTP manager monitoring all system events. The AR316X6/AR316X6R is an easy and true enterprise solution design to use building block for large storage systems, and is guaranteed to achieve the most cost-effective performance and data protection.

Features

Architecture

- Redundant controller built-in to provide high availability and high performance.
- 800MHz processor with 1GB on-board ECC cache memory (upgradeable to 4GB) per controller.
- 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.
- Dual Channel 6G SAS connector per controller, supporting fail-over.
- Supports SAS JBOD (AS212X6/AS316X6/AS424X6) expansion with up to total of 128 drive bays
- Redundant and hot-swappable power supply and cooling fans.
- O/S-Independent and host transparent RAID solution.

RAID

- Supports JBOD, RAID 0, 1, 1E, 0+1, 3, 5, 6, 30, 50, 60 with hot spare and multiple volumes.
- 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

Model	
AR316X6 (Single Controller) /AR316X6R (Dual Controller)	
Controller	
Single/Dual Redundant Controller	
Maximum Capacity	
64TB, Expandable to 512TB	
Auto Rebuilding	
Yes	
Host Interface & Transfer Rate	
6G Mini-SAS * 2 per controller (Total 4 mini-SAS channel for Dual controller)	
Expansion Ports	
Mini-SAS x 1, Support up to 7 additional JBOD units (AS212X6/AS316X6/AS424X6).	
Drive Interface	
6G SAS / 6G SATA (Additional MUX board required when use with SATA drives and Redundant Controller Option)	
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	

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