

JetStor®

Storage. Solutions. Support.

SAS / SATA

3U

16 BAY

JetStor SAS 816S

HIGH PERFORMANCE RAID SYSTEM

12Gb
SAS
host



The JetStor SAS Model 816S Direct Attached Storage (DAS) array features 12Gb SAS host performance to increase system efficiency and performance. It supports optional dual controllers and is equipped with 16 hot swappable SAS2/SATA3 hard disk drive bays with fast SAS2 host channels for a rapid, uninterrupted access to your most demanding applications requiring either high bandwidth or very rapid random I/O performance.

HIGHLY AVAILABLE DESIGN

Engineered to meet stringent demands for continuous availability, JetStor SAS 816S 12G DAS array features a 1.2GHz Dual Core RAID-On-Chip processor, Generation3 PCI-E internal bus, DDR3 cache, parity-assist ASIC, completely cableless backplane-based design, and storage capacities of almost 128TB in one small 3U disk enclosure. Further expansion is possible via JetStor JBOD expansion chassis.

NON-STOP ADS AVAILABILITY

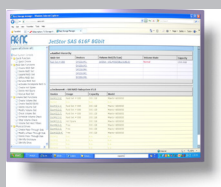
Almost all RAID levels are supported for precise configuration to your application's performance and protection requirements. Multiple drives may be designated as hot-spares allowing the system to transparently move data to a spare should an error be detected. Drives are hot-swappable, with automatic rebuilding of data on the new drive. Capacity can be increased and drives replaced while data remains on-line. Each system offers high-capacity expansion to multiple JBOD chassis with total storage measured in terabytes. For the greatest protection, RAID 6 with Advanced Data Sentry technology allows for continuous operations even with two simultaneous drive failures. Considering that RAID 6 ADS provides 1,000 times greater data protection than RAID 5, why trust your data to any other technology?

FEATURES

- 12G SAS performance through two 4x mini SAS HD (12Gb/s) (SFF-8644) host connections per controller.
- Encryption at Rest Support ISE, TCG, SED, SSD with Block Erase and Password Protect.
- Supports SSD automatic monitor clone (AMC) to extend SSD lifetime and clone disk.
- DataBolt™ Bandwidth Optimizer for balance faster host & slower SAS or SATA devices.
- Supports all OS, both single and clustered.
- Field-replaceable major components allow for maximum convenience, uptime and configuration flexibility.
- Free telephone & email support.

WARRANTY

- Three to five years on disk drives, one year on BBM, three years on all other components.
- Optional advanced replacement program ships drive replacements within 24 hours. Optional on-site service also available.



RAID MANAGER

Proactively manage, configure and monitor all JetStor RAID systems from any browser.

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SPECIFICATIONS

JetStor SAS 816S

HIGH PERFORMANCE RAID SYSTEM

12Gb
SAS host



Model	JetStor SAS 816S / 816SD
RAID Controller	816S: Single / 816SD: Dual
Host Ports	Two, 4x mini SAS HD (12Gb/s) (SFF-8644) per controller
Disk Interface	6Gb/s SAS/SATA, 12Gb/s SAS
Expansion Ports	One, 6Gb/s SAS (SFF-8644) per controller
Drives (unit)	16, 3.5"
Processor type	1.2GHz Dual Core RAID-On-Chip processor
Cache memory	4GB(default)-16GB(optional)/DDR3 ECC SDRAM
Battery backup	Optional
Management Port Support	2 x RJ11 Serial Ports; 1 x RJ45 Ethernet Port

Enclosure

Platform / Form Factor	Rackmount / 3U
Disk status indicators	Access / Fail LED
Single Backplane	SAS2 / SATA3 Cableless
PS/Fan modules	Two 500W w/PFC
Turbo Fans	Four
Power Requirements	AC 90V ~ 264V Full Range; 10A ~ 5A, 47Hz ~ 63Hz

Environmental

Relative Humidity	10% ~ 85% Non-condensing
Operating Temperature	10°C ~ 40°C (50°F ~ 104°F)
Physical Dimension	22(L) x 19(W) x 5.25(H) in
Weight (w/out disks)	24 Kg / 53 Lbs

Compatibility

Operating Systems	VMWare ESX Server, vSphere, Windows Server 2012 / 2012 R2, Windows Server 2008, XenServer, Oracle/Solaris, Linux, MAC OS X
SATA Drives 3.5"	1TB, 2TB, 3TB, 4TB, 6TB, 8TB, 10TB, 12TB - 816S single controller only
SAS Drives 3.5"	600GB, 1TB, 2TB, 3TB, 4TB, 6TB, 8TB, 10TB, 12TB

SYSTEM FEATURES

- Menu driven front LCD display
- Innovative modular architecture
- Redundant flash image for high availability
- Multiple array enclosures per host connection
- Volume sets greater than 2TB (64-bit LBA support)
- Disk drives greater than 2TB
- Supports Windows 4KB/sector, up to 16TB per volume set
- Disk scrubbing / array verification scheduling for automatic repair of all RAID sets
- Records logins in the event log with IP address and service (http, telnet and serial)
- Supports intelligent power management to save energy and extend service life
- NTP protocol RAID controller clock synchronization
- Background initialization for instant availability
- Supports S.M.A.R.T, NCQ and OOB staggered spin-up capable drives
- Local audible event notification alarm
- Real time clock support

RAID FEATURES

- RAID Levels 0, 1,10(1E), 3, 5, 6, 30, 50, 60, 00, 100, Single Disk & JBOD
- Up to 128 Array groups
- Up to 128 LUNs
- Global & dedicated hot spares
- Drive roaming
- Online rebuild
- Variable stripe size
- E-mail notification
- Online capacity expansion
- Online volume set expansion
- RAID level/stripe size migration
- Online array roaming
- Online consistency check
- Instant availability and background initialization
- HDD Xfer Speed Test
- Multiple pairs SSD/HDD disk clone
- Multi-Path I/O (MPIO) Support

MANUFACTURER



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