JetStor®

Storage. Solutions. Support.

JetStor SAS 812F

HIGH PERFORMANCE RAID SYSTEM

16Gb FC-AL

The JetStor 812F RAID subsystem features 16Gb FC-AL host performance to increase system efficiency and performance. It features high capacity expansion, with 12 hot-swappable SAS2/SATA3 hard disk drive bays in a 19-inch 2U rackmount unit, scaling to a maximum storage capacity in the terabyte range. The JetStor 812F 16G also supports optional dual controllers which provide better fault tolerance and higher reliability of system operation.

HIGHLY AVAILABLE DESIGN

The JetStor SAS 812F 16G RAID system features fail-safe engineering for non-stop operations. A fully cableless design improves reliability. Dual hot-swappable power supplies with integrated turbo-cooling and separate power connections, and embedded hot-swappable controller provides system tolerance of any component failure. SNMP or SMTP email notifications of all system events enables proactive maintenance.
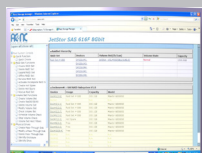
NON-STOP ADS AVAILABILITY

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

- 16Gb FC - 6Gb SAS RAID controller performance through four 16Gb/sec FC-AL 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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16GB FC-AL

Model	JetStor SAS 812F / 812FD
RAID Controller	812F: Single / 812FD: Dual
Host Ports	Four, 16Gb/s FC-AL per controller
Disk Interface	6Gb/s SAS/SATA, 12Gb/s SAS
SAS Expansion	One 6Gb/s SAS (SFF-8644) per controller
Drives (unit / expansion)	12, Up to 256
Processor type	1.2GHz Dual Core RAID-On-Chip processor
Cache memory	4GB(default)-16GB(optional)/DDR3 ECC REG SDRAM
Battery backup	Optional
SMTP manager and SNMP agent	Yes
Enclosure	
Disk status indicators	Access / Fail LED
Single Backplane	SAS2 / SATA3 Cableless
PS/Fan modules	Two 400W w/PFC
Turbo Fans	Two
Power	AC 90V ~ 264V Full Range; 8A ~ 4A, 47Hz ~ 63Hz
Environmental	
Relative Humidity	10% ~ 85% Non-condensing
Operating Temperature	10°C ~ 40°C (50°F ~ 104°F)
Physical Dimension	23(L) x 19(W) x 3(H) in
Weight (w/out disks)	18.2 Kg / 40 Lbs
Compatability	
Operating Systems	VMWare ESX Server, vSphere, Windows Server 2008, XenServer, Oracle/Solaris, Linux, MAC OS X
SATA Drives 3.5"	1TB, 2TB, 3TB, 4TB, 6TB, 8TB, 10TB, 12TB - 812F single controller only
SAS Drives 3.5"	600GB, 1TB, 2TB, 3TB, 4TB, 6TB, 8TB, 10TB, 12TB
SAS Drives 2.5"	450GB, 600GB, 900GB, 1.2TB and 1.8TB
SSD Drives 2.5"	480GB, 600GB, 800GB, 1TB and 2TB - 812FD dual controller requires MUX adapters

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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COSTARS Contract# 003-434

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