

# JetStor<sup>®</sup>

Storage. Solutions. Support.

SAS /SATA

4U

42 BAY

## JetStor SAS 742S V2 HIGH PERFORMANCE RAID SYSTEM

**1,600  
MB/S!**



JetStor SAS 742S V2

The JetStor 742S V2 is a high density storage product built for huge data storage applications, data center or cloud computing. The JetStor 742S deliver 1,600 MB/second through 6Gb/sec SAS2 host connections to enable the most demanding applications. Embedded 42 storage bays provide up to 336TB in a single 4U chassis. Engineered to meet stringent demands for continuous availability, JetStor SAS 742S V2 RAID array spotlights a brand-new 800 MHz Dual Core RAID-On-Chip Storage Processor for blazingly fast parity calculation and I/O operations.

### HIGHLY AVAILABLE DESIGN

The JetStor SAS 742S V2 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 dual-redundant active/active array controllers provide 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. 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

- Up to 1,600 MB/sec performance through two 6Gb/sec SAS2 host connections to support your most demanding applications.
- RAID Manager browser based GUI management and monitoring software allows you to remotely configure and manage all JetStor systems with e-mail event notification.
- Supports all Operating Systems, both single and clustered.
- Field-replaceable major components allow for maximum convenience, uptime and configuration flexibility.
- Free telephone and 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.

[www.raid.com](http://www.raid.com)  
[sales@acnc.com](mailto:sales@acnc.com)  
[800.213.2667](tel:800.213.2667)



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## SPECIFICATIONS

# JetStor SAS 742S V2

## HIGH PERFORMANCE RAID SYSTEM

1,600  
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Model	JetStor SAS 742S V2
6Gb/s SAS Host Interfaces	Two
Disk Interface	6Gb/s SAS/SATA, 12Gb/s SAS
6Gb/s SAS2 Expansion Ports	Two
Drives (unit)	42, 3.5"
Processor type	800 MHz Dual Core RAID-On-Chip Storage Processor
Cache memory	4GB(default)-8GB(optional)/DDR3-1333 ECC REG SDRAM
Battery backup	Optional
Management / Monitor port support	Yes
SMTP manager and SNMP agent	Yes
<b>Enclosure</b>	
Tray lock	Yes
Disk status indicators	Access / Fail LED
Single Backplane	SAS2 / SATA3 Cableless
PS/Fan modules	Two 1100W w/PFC
Turbo Fans	Eleven
Power 90V-264V, 24Hz-63Hz full range	10A - 5A
<b>Environmental</b>	
Relative Humidity	10% - 85% Non-condensing
Operating Temperature	50°F - 104°F (10°C ~ 40°C)
Physical Dimensions (L x W x H)	32"x19"x7" 810mm x 482.6mm x 176mm
Weight (Without drives)	107 lbs (48.5 kg)
<b>Compatibility</b>	
Operating Systems	VMWare ESX Server, vSphere, Windows Server 2012 / 2012 R2, Windows Server 2008, XenServer, Oracle/Solaris, Linux, MAC OS X
SAS Drives	3.5": 600GB, 1TB, 2TB, 3TB, 4TB, 6TB and 8TB
SATA Drives	3.5": 1TB, 2TB, 3TB, 4TB, 6TB and 8TB

## RAID FEATURES

- RAID Levels 0, 1,10(1E), 3, 5, 6, 30, 50, 60
- Up to 128 Array groups
- Up to 128 LUNs
- Global & dedicated hot spares
- Simultaneous online expansion and RAID migration
- 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
- S.M.A.R.T. support
- MAID 2.0
- Bad block auto-remapping

## 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

## MANUFACTURER



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800.213.2667

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