

# JetStor®

Storage. Solutions. Support.

SAS / SATA / SSD

4U

64 BAY

## JetStor SAS 864F HIGH PERFORMANCE RAID SYSTEM

16Gb  
FC-AL



The JetStor SAS 864F is a high density storage product built for huge data storage applications, data center or cloud computing. The JetStor 864F RAID subsystem features 16Gb FC-AL host performance to increase system efficiency and performance. It features high capacity expansion, with 64 hotswappable SAS2/SATA3 drive bays in a 19-inch 4U rackmount unit, scaling to a maximum storage capacity in the terabyte range. The JetStor 864F also supports optional dual controllers which provide better fault tolerance and higher reliability of system operation.

### HIGHLY AVAILABLE DESIGN

The JetStor SAS 864F 16G 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 array controller provides system tolerance of any component failure. SNMP or SMTP email notifications of all system events enables proactive maintenance.

### CUSTOMER TESTIMONIAL

*"Our JetStor is running well. We are cranking a lot of data and the RAIDs are holding fort. We are cranking on a lot of data to generate global tree, forest and water cover data! Actually we are the first in the world to have done this and publish our results."*

*~ Saurabh C. | Global Land Cover Facility | University of MD College Park*

### FEATURES

- 16Gb performance through four 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 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.acnc.com](http://www.acnc.com)  
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800.213.2667



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## SPECIFICATIONS

# JetStor SAS 864F

## HIGH PERFORMANCE RAID SYSTEM

**16Gb  
FC-AL**



Model	JetStor SAS 864F / 864FD
RAID Controller	864F: Single / 864FD: Dual
Host Ports	Four 16Gb/s FC-AL per controller
Disk Interface	6Gb/s SAS/SATA, 12Gb/s SAS
6Gb/s SAS2 Expansion Ports	One, 6Gb/s SAS (SFF-8644) per controller
Drives (unit)	64, 2.5" / 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 / 4U
Single Backplane	SAS2 / SATA3 Cableless
PS/Fan modules	1100W 80plus x2 w/PFC
Turbo Fans	15
Power	AC 100V ~ 240V Full Range; 15A ~ 7.5A, 47Hz ~ 63Hz
Default Slide Rail: Post to Post 800mm~1090mm (32"~42") / Option: Post to Post 750mm~900mm (29"~35")	
Environmental	
Relative Humidity	10% ~ 85% Non-condensing
Operating Temperature	10°C ~ 40°C (50°F ~ 104°F)
Physical Dimension	35(L) x 19(W) x 7(H) in
Weight (w/out disks)	43.5 Kg / 96 Lbs
Compatibility	
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 - 864F 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 - 864FD 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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 GSA Schedule: GS-35F-0694J  
 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