

## 4Gb FC(x2)-SAS/SATAII 2U12 High Performance RAID System



RAIDSTORE R-FS-212 Fibre Channel RAID system is designed for SMB applications. The optimized IOPS and throughput are capable for online services, such as SQL and Exchange. By the high throughput capability, R-FS-212 is also ideal for video editing application. And with multiple nodes support, user can also install up to 32 Oses in the FC RAID system. With this feature, the multiple Oses/Servers can be managed easily and highly protected by RAIDSTORE's writeable snapshot. The other applications not mentioned here are not limited. Please contact RAIDSTORE for more information.

### R-FS-212 Applications:

- SQL
- Exchange
- Video Editing
- Virtualization
- Online File Backup
- Email

And more .....

Host Interface	2 x 4Gb FC ports
Drive Interface	12 x SAS or SATA II
Scalability	SAS JBOD expansion port Up to 4 RAIDSTORE J200V60 SAS JBOD
Performance	800 MB/Sec 70,000 IOPS
Green	Auto disk spindown Advanced cooling
RAID Level	RAID 0, 1, 0+1, 3, 5, 6, 10, 30, 50, 60 & JBOD RAIDSTORE N-way mirror
Compatibility	Support multiple Oses, applications, FC HBA, & etc.
Virtualization	VMWare, Hyper-V, Citrix
Data Protection	QSnap writeable snapshot
Connection Availability	Load balancing & failover support on the 2 4Gb FC ports
Dimension (W x D x H)	447 x 550 x 87 (mm)
Power Supply	Redundant, 550W
Cache Protection	Battery Backup Module (Optional)
Fan	Redundant

### Technical Specifications

#### System Key Components

1. CPU: Intel Xscale IOP 81341
2. Memory: 1GB DDRII 533 DIMM, optional 2GB DDRII 533 DIMM
3. 2 x UARTs: serial console management & UPS
4. Fast Ethernet port for web-based management use
5. Backend: 12 x SAS or SATA II drive connections
6. Front-end: 2 x 4Gb FC ports
7. LCM for quick management
8. Battery backup support (Optional)
9. Redundant power supplies
10. Redundant fans

#### RAID & Volume Operation

1. RAID level: 0,1,0+1,3,5,6,10,30,50, 60, JBOD, & N-way mirror
2. Up to 1024 logical volumes in the system
3. Up to 16 PDs can be included in one volume group
4. Global and dedicated hot spare disks
5. Write-through or write-back cache policy for different application usage
6. Multiple RAID volumes support
7. Configurable RAID stripe size

### Highlights

8. Online volume expansion
9. Instant RAID volume availability
10. Auto volume rebuilding
11. On-line volume migration with no system down-time

## Advanced Data Protection

1. Qsnap writeable snapshot
  - Built-in snapshot with rollback enabled
  - Snapshot enabled up to 16 volumes, each logical volume supports up to 32 snapshot volumes, total 512 snapshot volumes per system
2. Microsoft Windows Volume Shadow Copy Services (VSS)
3. Configurable N-way mirror for high data protection
4. Online disk roaming
5. Smart faulty sector relocation
6. Battery backup support (optional)

## Enclosure Monitoring

1. S.E.S. inband management
2. UPS management via dedicated serial port
3. Fan speed monitors
4. Redundant power supply monitors
5. Voltage monitors
6. Thermal sensors for both RAID controller & enclosure
7. Status monitors for RAIDSTORE J200V60 SAS JBODs

## Management Interface

1. Management UI via
  - LCM
  - serial console
  - SSH telnet
  - HTTP Web UI
  - secured Web (HTTPS)
2. Notification via
  - Email
  - SNMP trap
  - Browser pop-up windows
  - Syslog
  - Windows Messenger
3. DHCP support on the management port

2. Host access control: Read-Write and Read-Only
3. Up to 32 host connections
4. One logic volume can be shared by as many as 16 hosts
5. Microsoft MPIO
6. Up to 32 multiple nodes support

## OS Support

- Windows
- Linux
- Solaris
- MAC

## Drive Support

1. SAS or SATA II
2. SCSI-3 compliant
3. Multiple IO transaction processing
4. Tagged command queuing
5. Disk auto spindown support
6. S.M.A.R.T. for SATA II drives
7. Up to 4 RAIDSTORE J200V60 SAS JBODs expansion

## Power & Environment

- AC input: 100-240V ~ 8A-4A 1+1 550W with PFC (Auto Switching)
- DC output: 3.3V-28A; 5V-30A; 12V-35A
- Operating Temperature: 10 to 40 °C
- Relative Humidity: 5% to 95% non-condensing

## Dimensions

- 2U12 19 inch rackmount chassis
- 447mm x 550mm x 87mm (W x D x H), 17.6" x 21.65" x 3.42" (W x D x H)



## Host Connection

1. 2 x 4 Gb FC ports support in independent access, failover, and load-balancing