

Highlights:

- Two 4Gb FC ports per controller
- One iSCSI port per controller

- Fully redundant & hot pluggable designs: RAID controllers, power supplies, fan modules, battery backup modules, & JBOD expansion

- Green storage designs: auto disk spin down, advanced cooling mechanism, & 80 PLUS energy-efficient power supplies

- Advanced data protection: RAID 6, 60, QSnap writeable snapshot, Windows VSS support, QReplica remote replication

- Flexible volume management for multiple applications & environments: virtualization (VMWare, Hyper-V, Citrix), cloud storage, SQL, Exchange, surveillance, file backup, email, boot from SAN, & etc.

- High connection availability: load balancing & failover

- Extendable capacity up to 120TB

RAIDSTORE R-FD-212 Multiprotocol 2U12 High Availability Systems



RAIDSTORE's storage systems are designed for high availability, non-stop services, applications demanding high throughput, and flexible storage planning with cost effectiveness for small and medium businesses.

High Availability

The R-FD-212 multiprotocol system is specially designed for high availability applications and featured with Fibre Channel and iSCSI ports in each controller. The iSCSI ports can be activated for RAIDSTORE's system built-in remote replication function – QReplica or used for widely approved iSCSI functions. The unique multiprotocol feature allows users to integrate the applications and data from the FC and IP networks in the same R-FD-212 storage system without extra infrastructure cost. The R-FD-212 is well equipped with fully redundant components for all major functions, including redundant RAID controllers, power supplies, fan modules, battery backup modules, and SAS JBOD expansion ports. Being hot pluggable, all of them provide non-stop services. In addition, the firmware is high available as well, including RAID 6, 60 support, QSnap writable snapshot, Windows VSS support, QReplica remote replication, and volume configuration restoration; all of these are provided to reduce the chance of rebooting or shutdown. Distinct from others, the R-FD-212 is able to upgrade firmware without system down time. Both firmware image and volume handling are well protected by the redundant RAID controllers; when one RAID controller is down or has lost the connection, the other RAID controller takes over its tasks immediately. The volumes and the services are transferred seamlessly simultaneously.

Outstanding Performance

The R-FD-212 IOPS and throughput are much higher than other storage systems within the same segment in the current market.

Applications

The optimized IOPS and throughput are capable of providing run-time critical online services, such as Cloud storage, SQL, Exchange, and high-end surveillance storages. Furthermore, with the 4Gb FC and GbE iSCSI interfaces, the R-FD-212 is ideal for virtualization environments - VMWare, Hyper-V, and Citrix. Users can install up to 32 OSes in the multiprotocol system through the Boot-from-SAN feature. With this feature, the multiple OSes/Servers can be managed easily and well protected by RAIDSTORE's advanced data protection features, and there will be no system downtime caused by single point of failure.

Green

All R-FD-212 systems are equipped with RAIDSTORE's default green features for power saving. In most cases, the hard drives consume most power. With the auto disk spin down feature and proper configuration, the power consumption of hard drives can be reduced to a minimum, and users will not even notice this feature. The R-FD-212 monitors the environment temperature for cooling mechanism and the fan modules respond accordingly. The power supply modules are all 80 PLUS power efficient for better power converting rate. In virtue of the reduction of hard drive power consumption, the advanced cooling mechanism, and the energy-efficient power supplies, the unnecessary power cost is decreased greatly.

R-FD-212	
Hardware Components	
RAID Controller	Dual controllers
No. of Host Channels Per Controller	2 x 4Gb FC 1 x iSCSI
Expansion Enclosure	J300Q series
Cache Memory Per Controller	2GB, up to 4GB
No. of Hard Drives (SAS & SATA II)	12
Max. No. of Hard Drives (SAS & SATA II)	60
Power Supply	2 x 500W
Fan	2
Dimensions	2U 19" Rackmount 442.8mm x 500.6mm x 88.0mm (W x D x H)
Feature Highlights	
Green	Auto disk spin down Advanced cooling mechanism 80 PLUS energy-efficient power supplies
FC	Up to 32 multiple nodes support Up to 128 sessions per controller Up to 32 hosts support per controller
iSCSI	iSCSI jumbo frame Header/Data digest CHAP authentication Up to 16 multiple nodes support Up to 128 sessions per controller Up to 16 hosts support per controller
RAID & Volume	RAID level 0,1,0+1,3,5,6,10,30,50, 60, JBOD, N-way mirror Up to 1024 logical volumes Up to 32 hard drives per volume group One logic volume can be shared by as many as 16 hosts Global and dedicated hot spare Write-through or write-back cache policy Online volume expansion Instant RAID volume availability Auto volume rebuilding On-line volume migration without system down time
High Availability	Dual-active RAID controllers Cache mirroring through high bandwidth channels Flexible RAID group ownership management Management port seamless take-over Online firmware upgrade, no system down time Multi-path & load-balancing support (Microsoft MPIO)
Advanced Data Protection	QSnap writable snapshot Microsoft Windows Volume Shadow Copy Services (VSS) QReplica system built-in remote replication, support replication to R-FD-212, P300Q, & P500Q series Configurable N-way mirror Online disk roaming Instant volume configuration restoration Hot pluggable battery backup module (BBM)
Management	LCM; Serial console; SSH telnet; HTTP Web UI; Secured Web (HTTPS); S.E.S.
Notification	Email; SNMP trap; Browser pop-up windows; Syslog; Windows Messenger
OS Support	Windows; Linux; Solaris; Mac
Virtualization	VMWare; Hyper-V; Citrix
Warranty	1-year limited warranty
Requirements	
AC Input	100-240V ~ 7A-4A 500W with PFC (Auto Switching)
DC Output	3.3V-25A; 5V-32A; 12V-40A
Operating Temperature	0 to 40°C
Relative Humidity	5% to 95% non-condensing

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