

R2803 Serial ATA RAID Storage System



Features

- Supports RAID levels 0, 1, 0 +1,3, 5 and 6
- Dual SCSI host ports or 2GB Fibre host ports (Optical) with clustering support
- Supports up to 8 S-ATA hard drives in hot swap carriers
- Redundant load sharing hot-swappable power supplies with separate power cords
- High quality advanced cooling fans
- Hot spare drive support and automatic hot rebuild
- Transparent data protection for all popular operating systems
- Tagged command queuing for 255 commands, allows for overlapping data streams
- Online capacity expansion
- Supports multiple array enclosures per host

RAID Management

- Smart function front panel LCD
- Environmental Monitoring Unit
- Powerful Browser based GUI management utility for complete remote management, control and fault alerting, including email and SNMP trap notification.
- Manage from anywhere on your IP network secure protected access
- Real time drive activity and status indicators

- **Dual SCSI or F/C Host Interface**
- **Fast Serial ATA Drives**
- **8 Hot Swap Disks**
- **2TB+ Storage in just 2U**
- **Advanced Data Guarding Technology (RAID ADG)**

Ideal for high performance fail safe data storage applications, using the latest serial ATA disk technology and with a choice of either dual U320 SCSI or dual 2GBit Optical fibre connections the R2803 provides the highest storage density available in its class.

The high density 2U rack mountable system features 8 hot-swappable hard disk drive trays to give a storage capacity of over 2.8 Terabytes (with 8 x 400GB drives).

Advanced Data Guard technology (RAID ADG) provides the highest level of data protection. RAID ADG can tolerate multiple simultaneous drive failures without down time or data loss. In RAID 6 the system can have two drives fail without data loss.

System reliability is ensured by an environmental monitoring unit that tracks the enclosure temperature, as well as individual disk temperatures. Hot swappable redundant power supplies with separate power cords are continuously monitored and high quality advanced cooling modules provide an optimal environment for high RPM drives.

With a menu driven front panel display, real time drive status indicators and a Java-based browser GUI interface management module, the R2803 offers a variety of options for monitoring and management.

Model	R2803 SA	R2803 FA
Hard Drives	Serial ATA	Serial ATA
Form-factor	2U 19-inch rackmount	2U 19-inch rackmount
RAID processor	Intel 80321 64 bit RISC	Intel 80321 64 bit RISC
RAID level	0,1,0+1,3,5,6, JBOD	0,1,0+1,3,5,6, JBOD
Cache memory	128MB to 1024MB	128MB to 1024MB
Host bus interface	Dual SCSI Ultra 320 LVD	Dual FC-AL 2GB Optical
Disk interface	SATA 150 x 8	SATA 150 x 8
Data transfer rate	Up to 320Mb / Sec / Interface	Up to 200Mb / Sec /Interface
Back plane board	S-ATA 150	S-ATA 150
Hot-swap drives	8 x 1 inch trays	8 x 1 inch trays
Hot swap supplies	2 x 300W	2 x 300W
Tagged command queuing	Up to 255 commands	Up to 255 commands
Cooling fans	2 (blower)	2 (blower)
Batter backup	option	option
Audible alarm	Yes	Yes
Failed drive indicators	Yes	Yes
Failed drive auto rebuild	Yes	Yes
On-line consistency check	Yes	Yes
Continuous rebuild	Yes	Yes
On-line expansion	Yes	Yes
RLINK SNMP Support	Yes	Yes
New disk auto spare	Yes	Yes
Environment monitor	Yes	Yes
Power requirements	AC 90V ~ 264V Full Range 6A@240V AC 50HZ	AC 90V ~ 264V Full Range 6A@240V AC 50HZ
Relative Humidity:	10% to 85% Non-condensing	10% to 85% Non-condensing
Operating Temp:	10°C to 50°C	10°C to 50°C
Non – operating Temp:	-40°C to 60°C	-40°C to 60°C
Dimensions	88 (H) x 482 (W) x 650(D) mm	88 (H) x 482 (W) x 650(D) mm
Weight (approximate)	13.5k (without drives)	13.5kg (without drives)

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