



SAS 6Gb SAS / SATA RAID Portable Subsystem

Compatible with THUNDERBOLT 

Today, business experiences dramatic growth in digital storage in the broadcast, post production and other enterprise applications. Ciphertex designed an enterprise-class RAID with the highest throughput and reliability/scalability under severe use conditions. The Ranger SAS optimizes performance to enable creative media professionals to increase productivity by up to 2.5 times.

Portable High Performance RAID

- 8TB | 16TB | 24TB | 32TB capacity
- Supports expansion over 32TB
- SAS 2.0 (6GB/s) for extreme performance
- Transparent security for any OS
- Multiple redundancies for business community
- Easy setup and maintenance



Features

- SAS 2.0 (6G) interface, compliant with SAS 1.0 (3G) and SATA II device
- Supports RAID level 0, 1, 10 (1E), 3, 5, 6, 30, 50, 60, JBOD
- Write-through or write-back cache support
- Supports hot spare and automatic hot rebuild
- Allows online capacity expansion within the enclosure
- Local audible event notification alarm
- Supports password protection
- Built-in serial port interface for remote event notification
- Dual SAS ports support clustering technology or capacity expansion
- Disk scrubbing/array verify scheduling for automatic repair of all configured RAID sets
- Transparent data protection for all popular operating systems

- Support RAID ADG (RAID 6) which provides the highest level of data protection
- Supports multiple array enclosures per host connection
- Online RAID level migration
- Support NTP protocol to synchronize RAID controller clock over the on-board Ethernet port

Extraordinary Performance

- SAS2 Disk: The best performance of current storage interconnect interface, which also support SATA 6G interface
- Better connectivity, higher data transfer rates
- Advanced Data Guarding technology (RAID ADG) provides the highest level of data protection
- RAID ADG (RAID 6) can tolerate multiple simultaneous drive failures without downtime or data loss

Exceptional Manageability

- Graphic user interface (GUI) carry out user easy to remote management and configuration
- Menu-driven interface make user a convenient way to maintain storage by locally LCD front console

Easy Installation, Upgrade & Maintenance

- Provide a fast and easy way to install and upgrade storage
- Simplified maintenance reduces ongoing IT labor costs

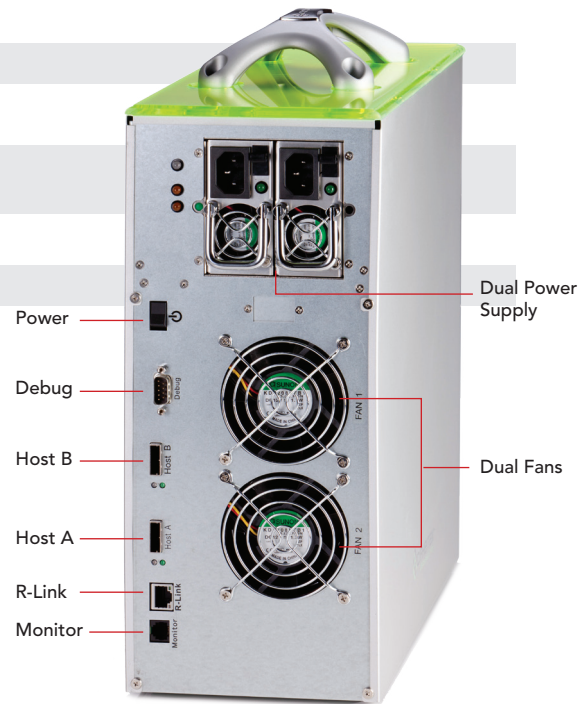
RAID Management

- Smart function LCD panel
- Environmental monitoring unit
- Real time drive activity and status indicators
- Web-based GUI management utility

TECHNICAL SPECIFICATIONS

Form-Factor	8 Bays Tower
RAID Processor	800hz RAID-on-chip storage processor
RAID Level	0, 1, 10 (1E), 3, 5 6, 30, 50, 60 and JBOD
Cache Memory	512MB and ECC/REG protection
Number of Channels	2 + 8
(host + drive)	One 6Gb/s SAS (SFF-8088) port for host
Host Bus Interface	One 6Gb/s SAS (SFF-8088) port for host or expansion (configurable)
Drive Bus Interface	6Gb/s, SAS, 6Gb/s SATA
SAS Expansion	One Gb/s SAS (SFF-8088) (configurable)
Hot-Swap Drive Trays	Eight (8) 1-inch trays
Power Supply	400W x 1 (upgradeable) power supply w/PFC (EP-T803-S6S6-S) 400W x 2 (redundant power supplies w/PFC (EP-T803-S6S6-R))
Cooling Fans	2
Battery Backup	Yes
Ethernet Management Port	Yes
SNMP Protocol Support	Yes
Array Roaming	Yes
MAID Support	
Power Requirements	100 ~ 240 VAC, 8A ~ 4A, 47Hz ~ 63 Hz
Environment Detection	Temperature, Fan, Voltage
Operating Temperature	10°C ~ 40°C (50°F ~ 104°F)
Physical Dimensions	351.4 (H) x 155 (W) x 400.6 (D) mm

Other Features: New Disk Auto Spare / Host Independent / Environment Monitor / Online Expansion / Continuous Rebuild / Online Consistency Check / Failed Drive Auto Rebuild / Failed Drive Indicators / Audible Alarm / Password Protection / Email Notification / Bad Block Auto-Remapping / Multiple RAID Selection / Online RAID Level Migration / Background RAID Initialization / S.M.A.R.T.



MAXIMUM SECURITY / MAXIMUM PERFORMANCE

Ciphertex Data Security · 9301 Jordan Avenue 106 · Chatsworth CA 91311 USA
toll free 877.977.8878 · 818.773.8989 · ciphertex.com

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in the USA using domestic and/or foreign components