

FlashDisk® Turbo SATA

SA-4500T Series

High density bulk storage system for SATA-based applications supports up to 9.6 TB

FlashDisk SATA *Turbo* is a SATA II external RAID array that provides 9.6 TB of low-cost storage using Serial ATA I or II drives. It supports dual Ultra320 SCSI host interfaces in a rugged and easily serviceable 4U enclosure. This enhanced 24 bay disk array is the fastest and most cost-effective system available for low cost SATA, disk-to-disk backup, and archive requirements.

Supports the new high duty cycle SATA II disk drives, enabling use in applications that require higher reliability disk technologies.



FlashDisk Turbo SATA SA-4542

Performance

- 450 MB/sec reads, 350 MB/sec write
- 64-bit end-to-end design
- 256 MB of ECC cache, upgradable to 2 GB

Capacity & Scalability

- 24 SATA disks per enclosure
- 7200 rpm - 250 GB, 320 GB, 400 GB disks
- 10k rpm - 74 GB disks,
- Scales to 9.6 TB

Reliability

- Hot-swappable drives, power supplies, fans, AC power inlets
- Hot spares with automatic drive rebuilds
- Supports multi-pathing and HBA failover
- Supports continuous background media scans

Compatibility

- Supports most O/S and servers without any host software
- Supports up to 64 configurable LUNs
- Cluster support: Windows, Novell, UNIX, and Linux

Centralized & Remote Management

- Managed out-of-band via Ethernet, TELNET, FlashConsole appliance
- Automatic event & problem alert notification
- FlashAlert 24-hour "call-home" service
- Centrally managed with a Java-based web browser from any LAN workstation

www.winsys.com

4U RAID Enclosure

- Model number
- Controller
- Number of host ports
- Processor
- RAID levels supported
- On-line capacity expansion
- Cache memory capacity
- Non-volatile cache
- LUN masking
- Maximum LUNS
- Host adaptors available for
- Power supplies
- AC Power Inlets
- Max. external cable length
- Operating console

Standard 19" EIA rack or standalone

SA-4542

- Removable, 64-bit RAID controller
- 2 U320 SCSI hosts
- 400MHz RISC with 256kb embedded L2 cache
- 1, 3, 5, 1+0, 15, 30, 50 - hardware XOR engine
- Automatically adds new drives to existing array
- 256 MB standard, upgradable to 2 GB
- Li-ION battery - min. 72 hours
- Configurable per host port
- 64
- PCI-X, PCI & Sbus
- 3 (N+1) hot-swap, redundant 405 Watts each
- 3 IEC power connect, hot-swappable
- Up to 12 meters LVD, 2 meters single ended with SCSI
- View and edit logical RAID/physical drives, setup hot-spare drives, map hosts, check parity, enable write-back cache, rebuild failed drive, view logs...

SATA Disk Drives

- 7200 rpm disks
- 10,000 rpm disks

Supports SATA I or II Disk drives

250 GB, 320 GB, 400 GB

74 GB

Controls and Indicators

- LCD front operation panel
- LED indicators
- Component failure
- Alerting

Control panel for setup and configuration
Power, battery, controller, and system status
Failure indication through LCD, RS-232C, and GUI
Built-in beeper/alarm mute button

<p>Compatibility</p> <p>Operating systems (no host software drivers needed) Platforms supported Cluster support</p> <p>Remote monitoring ports Communication protocols Compliance</p>	<p>Supports 14 Operating Systems including Windows, Linux, and UNIX Intel, SUN, HP, IBM RS-6000, Apple, SGI Supports 9 industry-standards including Windows, Linux, and Veritas RJ45 10/100 Ethernet, dual RS-232 TCP/IP, SNMP, SSH FCC, UL, CE, CSA</p>
<p>Options</p> <p>FlashNAS Appliance FalconStor or XOsoft WANSync</p>	<p>High performance NAS filer with snapshots Supports CIFS/NFS/AFP/CNP and NSPF option Replication over IP for disaster recovery</p>
<p>Storage Management</p> <p>Manage out of band Centralized management</p> <p>FlashConsole appliance FlashAlert call home service</p>	<p>Ethernet, TELNET Manage from any LAN workstation with Java-based web browser and no additional software Automatic event and problem alert notification 24-hour call center available for immediate action</p>
<p>General</p> <p>Uninterruptible power supply Redundant AC power 4U RAID chassis dimensions 4U RAID chassis weight Operating temperature Cooling System Standard Warranty Installation and service</p>	<p>Required when write-back cache is enabled Dual 90-260 VAC Inlet, 47-63 Hz 6.8"h x 17.5"w x 19.6"d; standard 19" rackmount 100 lbs. with drives 0° to 40° C Two Dual hot-swap, redundant cooling modules One year, next day on-site and toll-free hotline On-site installation; 24x7 service available</p>

**Model SA-4542
with Dual U320 SCSI Host Connections**

High Reliability (N+1)
Power Supply Design

