HighPoint Technologies, Inc. *RS* RocketStor

RocketStor 6414TS

4-Bay Q-SATA Turbo RAID Tower Enclosure

- Single SFF-8088 Port
- Robust Turbo RAID Architecture intelligently utilizes system resource to accelerate RAID 0 Performance up to 3,000MB/s
- 4x Hot-swappable HDD / SSD Drive Bays
- Up to Four 8TB SATA HDDs and SSDs, up to 32TB Storage Capacity
- RAID 0, 1, 5, 6, 10 & JBOD
- Industry Most Cost-effective SATA RAID 6 Storage solution
- User Friendly RAID Management Suite
- Windows, Linux, FreeBSD and Mac compatible

Industry's Lowest-Cost 4-Bay RAID 5 & 6 Enclosure

The RocketStor 6414TS utilizes a HighPoint Q-SATA connectivity port to directly support up to 4 SATA hard drives or SSD's in one or more RAID Storage configurations. The Q-SATA connectivity solution merges the performance capabilities of four independent 6Gb/s SATA channels into a single, super-speed connectivity solution that is capable of performing up to 2,400MB/s. It is an ideal RAID storage solution for performance hungry workstations.

Q-SATA Connectivity Solution: *Q-SATA*, or *Quad-SATA* is a connectivity Solution that utilizes SFF-8088 connectors to deliver true SATA 6Gb/s RAID Storage performance at an affordable price point. "Q" refers to the performance capability of the connection, which quadruples the SATA transfer bandwidth up to 2x 2,400MB/s, and fully optimizes RAID performance for up to 4 SATA 6Gb/s SSD or hard drives. Q-SATA features a robust locking mechanism to ensure stable and reliable storage connectivity.

Industry's Most Affordable RAID 6 Storage Solution: The majority of today's PC platforms benefit from efficient, high-performance processors and abundant cost-effective memory. The RocketStor 6414TS Turbo RAID solution was designed to intelligently utilize these surplus system resources to accelerate or maximize the transfer performance potential of RAID storage applications. RocketStor Turbo Class solutions offer exceptional RAID level support including RAID 0, 1, 5, 6, 10 & JBOD.
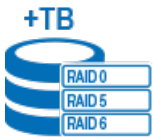
Robust Redundant RAID 5 & 6 Protection: The RocketStor 6414TS has integrated a series of preemptive security measures to maximize Storage uptime whenever data is needed. Redundant RAID 5 and 6 protection shields storage configurations from 1 or 2 disk failures without compromising data accessibility.

Robust RAID Recovery: Built-in NVRAM constantly tracks in-progress writes to preserve the integrity of data in the event of a drive failure or system crash, and streamline recovery procedures while minimizing downtime. Administrators can initialize or schedule RAID verification sessions that check each disk member of an array for parity consistency. If any parity related problems are found, the interface will immediately rebuild the array to ensure the integrity of your data.

Open-Box Storage Solution: The RocketStor 6414TS features an "open-box" approach to storage, which grants customers the freedom to use their choice of SAS or SATA drive from all major drive brands including HGST, Seagate, Toshiba and WDC. Customers can add drives as needed to meet the evolving performance or capacity requirements of the storage application. The four removable hot-swap bays support any 2.5" or 3.5" SATA Hard Drive or SSD, and up to 32TB of total storage capacity. Enterprise /NAS class drives are recommended for the RocketStor 6414TS; customers can tailor storage configurations to meet each application's performance and budget requirements.

Simple and Easy Storage Expansion: Online Capacity Expansion and RAID Migration allow customers to modify RAID configurations or expand existing storage while avoiding complicated, time consuming backup and restoration procedures.

Intelligent Storage Management Solution: The RocketStor 6414TS includes a user-friendly web-based management interface available for Windows, and Mac OSX operating systems. Novices and experts alike, can quickly and easily configure, monitor, maintain and troubleshoot RAID configurations and individual storage devices, all from a single, unified software suite. Advanced Management Features allow customers to configure Email notification to inform one or more users of changing storage conditions while outside of the work environment, and manage storage remotely via a local network connection.

Port Type	SFF-8088 (Q-SATA)
Number of Ports	1x SFF-8088 (Q-SATA)
Optional Battery Backup Module (HPTBBU-05)	N/A
Bus Interface	PCIe 2.0 x8
RAID Level	0, 1, 5, 6, 10 and JBOD (RAID 6 support limited to PC platforms)
Operating System	Window Server 2008 and Window 7 and later
	Linux: RedHat Enterprise, Open SuSE, Fedora Core, Debian, Ubuntu
	FreeBSD
	Driver embedded into FreeBSD 9.0 and later
	Mac OS X 10.6 and later
	Driver embedded into Mac OS X 10.10 and later
Max. Capacity	Up to 32 TB
Number Of drives	Up to 4
Drive Interface	SATA
Drive Form Factor	2.5", 3.5"
Material	Brushed aluminum housing
Enclosure Dimension	8.43" (H) x 5.28" (W) x 8.66" (D)
Enclosure Weight	9.90 lbs.
Warranty	3 Year
Advanced RAID Features	Storage Health Inspector
	Redundant RAID Configurations
	Multiple RAID Partitions supported
	Online Array Roaming
	Online RAID Level Migration (ORLM)
	Online Capacity Expansion (OCE)
	RAID Initialization Background/Foreground/Quick
	Global Hot Spare Disk support
	Automatic and configurable RAID Rebuilding Priority
	Disk Format compatible: 512, 512e, 4Kn
	Larger than 2 TB Drive and RAID Array support
	Native Command Queuing
	Write Back and Write Through

Storage Monitoring and Management Suite	
RAID Management Suites	Browser-Based management tool
Password Secured RAID management Suites	Default no password needed to access WebGUI in Mac
LED Indicator	Power, Present, Active, Fail, Rebuilding and Identify
SMTP Email Alert Notification	Email Alert Notification
Power Supply	AC INPUT: 100-240V ~ 5A 50/60Hz; DC OUTPUT: 250W
Internal Fan	80x80x25mm, Single Fan
Alarm Buzzer	Buzzer beeping when failed drive or array occurs
Operating Environment	
Temperature	(operating) 5°C – 45°C / (non-operating) -40°C – 65°C
Relative Humidity	(operating) 8% – 90% RH (Non-condensing) / (non-operating) 5% – 95% RH (Non-condensing)
Kit Contents	
Kit Contents	1x 4-Bay Tower Enclosure
	1x 4-Port SAS 6Gb/s Turbo RAID PCIe 2.0 x8 Host Adapter
	1x Low-Profile Bracket
	4x Drive Trays
	1x UL Power Cord
	16x 3.5" HDD mounting screws
	16x 2.5" SSD mounting screws
	1x Quick Installation Guide
Optional Accessories	

RocketStor TRAY-T - Removable hot-swap drive tray
Key Feature: 2.5" and 3.5" drive compatible
The RocketStor RSTRAY-T is a Drive Tray for HighPoint RocketStor 6314A, 6318A, 6414S, 6414AS, 6414TS, 6414VS, 6418AS, 6418TS, 6418S Tower RAID Enclosures. This is a replacement Drive Tray designed specifically for HighPoint RocketStor Tower RAID Enclosures.

EXT-MS-1MMS - The Ext-MS-1MMS is a high-speed cable that supports a data bandwidth up to 4x 6Gb/s between the RocketStor 6414TS RAID controller installed in the host system, and the 8-Bay Enclosure via SFF-8088 ports. Each cable can connect up to 4x Hard Drives or SSDs.
Suggested Uses:
1) Spare cable
2) Replacement

RocketStor 6414S - The RocketStor 6414S is a 4-Bay JBOD enclosure designed for use with the RocketStor 6414TS to house up to 4x 2.5" or 3.5" Hard Drives or SSDs.

Suggested Uses:
1) Replacement
2) Additional Storage or Back up Unit