HighPoint Technologies, Inc.   **RS** RocketStor

RocketStor 6418AS

8-Bay 6Gb/s SAS/SATA Hardware RAID Tower Enclosure

- Dual SFF-8088 Ports
- Industry proven Hardware RAID Solution allows storage to work independently from system resources to ensure uncompromised transfer performance and stability
- 8x Hot-swappable HDD / SSD Drive Bays
- Up to Eight 8TB SAS/SATA HDDs and SSDs, up to 64TB Storage Capacity
- RAID 0, 1, 5, 6, 10, 50 & JBOD
- DV Mode technology delivers highly stable, maximized transfer performance for Editing or Streaming 4K or HD video applications
- User Friendly RAID Management Suite
- Windows, Linux, FreeBSD and Mac Compatible

Industry's most Affordable 8-Bay Hardware RAID Enclosure

RAID Architecture: The RocketStor 6418AS is ideal for RAID 5/6 SATA and SAS Storage Applications that require Maximum Sustained RAID of 5/6 Performance. Robust, Built-In Hardware RAID: Dedicated hardware RAID 5/6 Engines with 512MB of DDR3 onboard cache allow the RocketStor 6418AS to work independently and minimize the RAID operation's impact on the host system or system loads impact storage performance. DV Mode Technology intelligently manages the flow of large data blocks and write-back caching to minimize latency and ensure consistent, sustained high-performance transfers for media-rich applications.

Mini-SAS Connectivity Solution: The RocketStor 6418AS utilizes high-performance Mini-SAS connectivity to directly support up to 8 SAS/SATA hard drives or SSDs in one or RAID storage configurations. The robust and secure Mini-SAS connector delivers a maximum data transfer bandwidth of 4,800MB/s, and is an ideal solution for business or mission critical Workstations that require highly sustained storage performance.
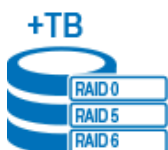
Uncompromised Storage Availability and Accessibility: The RocketStor 6418AS has integrated a series of preemptive security measures to maximize Storage uptime whenever data is needed. Redundant RAID 5 and 6 protection shields storage configurations from 1 or 2 disk failures, respectively. The RocketStor Storage Health Inspector (SHI) proactively maintains the health of arrays by examining each drive for failed sectors & Dynamically Repair/Remap on the fly to keep storage ready & able.

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 6418AS 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 eight removable hot-swap bays support any 2.5" or 3.5" SATA / SAS Hard Drive, and up to 64TB of total storage capacity. Enterprise /NAS class drives are recommended for the RocketStor 6418AS; 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 6418AS 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.

Feature Specifications	
Port Type	SFF-8088 (Mini-SAS)
Onboard Storage processor	Yes
Onboard Cache Memory	512MB DDR 3 Cache Memory with ECC Protection
Number of Ports	2x SFF-8088 (Mini-SAS)
RAID Level	0, 1, 5, 6, 10, 50 and JBOD
Operating System	Window Server 2008 and Window 7 and later
	Linux: RedHat Enterprise, Open SuSE, Fedora Core, Debian, Ubuntu
	Driver embedded into Linux Kernel 3.9.4 and later
	FreeBSD (Driver embedded into FreeBSD 9.0 and later)
	Mac OS X 10.6 and later (Driver embedded into Mac OS X 10.9 and later)
Max.Capacity	Up to 64 TB
Number Of drives	Up to 8
Drive Interface	SAS, SATA
Drive Form Factor	3.5" & 2.5"
Material	Brushed aluminum housing
Dimension	13.00" (H) x 5.67" (W) x 10.12" (D)
Weight	13.40 lbs.
Warranty	3 Years
Advanced RAID Features	Configurable RAID Block Size up to 1MB
	Flash ROM for Upgradeable Firmware
	DV Mode Technology
	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
	NVRAM with Write Journaling enhances RAID integrity
	Disk Format compatible: 512, 512e, 4Kn
	Larger than 2 TB Drive and RAID Array support
	Spin down Massive Arrays of Idle Disks support
	Native Command Queuing
	Write Back and Write Through

Storage Monitoring and Management Suite	
Storage Monitoring and Management Suite	Browser-Based management tool
	CLI (Command Line Interface- scriptable configuration tool
	API package
	Drive LED Indicator: Power, Present, Active
	SMTP Email Alert Notification
Power Supply	AC INPUT: 100-240V ~ 5A 50/60Hz; DC OUTPUT: 250W
Internal Fan	80x80x25mm, Dual Fans
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 8-Bay Tower Enclosure
	1x 8-Port SAS 6Gb/s Hardware RAID PCIe 2.0 x8 Host Adapter
	1x Low-Profile Bracket
	8x Drive Trays
	1x Thunderbolt Cable
	1x UL Power Cord
	32x 3.5" HDD mounting screws
	32x 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 6418AS 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 6418AS 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

RocketStor 6418S - The RocketStor 6418S is an 8-Bay JBOD enclosure designed for use with the RocketStor 6418AS to house up to 8x 2.5" or 3.5" Hard Drives or SSDs.

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