



RocketRAID 4500 Series

HighPoint 6Gb/s SAS Hardware RAID HBA Solutions for PC Platforms

Delivers Superior Reliability and Maximum Performance

HighPoint 6Gb/s SAS Hardware RAID Solutions

The RocketRAID 4500 series, HighPoint's newest class of 6Gb/s SAS/SATA RAID HBA's, were designed to meet the demanding requirements of professional business and media applications, where consistent performance, data availability and reliability of storage are paramount.

The dedicated 800MHz, 6Gb/s SAS RAID-on-Chip processor and 512MB of onboard DDR3 cache memory offloads RAID processing from the system hardware, freeing up valuable system resources. Industry standard Mini-SAS connectors directly support up to 8 SAS/SATA hard drives and SSD's, and up to 128 devices in cascade configurations when used in conjunction with SAS Expander devices.

Superior Reliability

RocketRAID 4500 series HBA's provide an unprecedented level of reliability with an extensive selection of security, recovery, and maintenance features.

The optional battery backup unit improves recovery times and secures valuable data for up to 72 hours in the event of a power outage or severe non-storage related hardware failure.

HighPoint's innovative RAID Recovery tool protects storage configurations by securely storing multiple copies of RAID meta-data, which administrators can utilize to quickly restore a failed or disabled RAID array.

Delivers True Host-to-Target SAS 6Gb/s Connectivity

HighPoint's RAID architecture eliminates transfer bandwidth bottlenecks, providing the ideal platform for high-density, I/O intensive storage applications including digital content creation and media post production. True end-to-end 6Gb/s SAS Expansion enables each RocketRAID 4522 HBA to support up to 128 SAS/SATA disks when used with SAS Expander devices.

Seamless Upgrade Paths

RocketRAID 4500 series HBA's support all generations of SAS and SATA storage devices and utilizes industry standard external Mini-SAS connectors for maximum compatibility and ease of integration.

Full backwards compatibility with HighPoint's entire RocketRAID product range streamlines upgrades to storage infrastructure while preserving critical business data for bootable or storage-only RAID configurations.


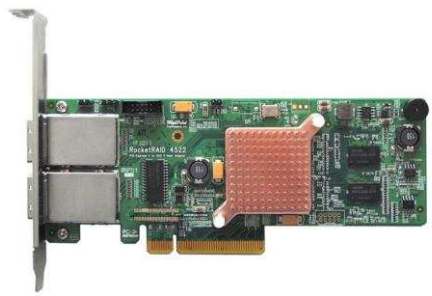
Feature Highlights

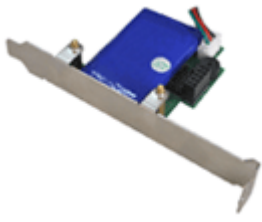
- SAS 6Gb/s RAID-On-Chip Processor
- Superior Reliability
- Seamless Upgrade Paths
- True Host-to-Target SAS 6Gb/s Connectivity
- Support Windows, Linux and FreeBSD Operating Systems

RocketRAID 4522 Technical Specifications	
I/O Processor (ROC)	Marvell 88RC9580 ROC Processor
Cache Memory	512MB DDR 3 Cache memory with ECC protection
Battery Backup Unit	Optional Battery Backup Module (HPTBBU-05)
Data Transfer Rate	Up to 6Gb/s per port
Number Of Device Ports	8 6Gb/s SAS & SATA ports
Host Bus Interface	PCI Express 2.0 x8
Device Connector Type	Dual external Mini-SAS connectors
Onboard Indicators /Monitor	Alarm Buzzer
Device Supported	Up to 128 SATA / SAS devices via SAS Expander
Backward Compatibility	Backward Compatible with HighPoint RAID HBA
Physical Form Factor	Low Profile
Dimensions	6.57" L x 2.68" H x 0.06" W

RAID Features Suite
RAID 0, 1, 5, 6, 10, 50, JBOD
Redundant RAID Configuration for Array availability
RAID Initialization Types - Background, Foreground and Quick
Native Command Queuing (NCQ)
Staggered Drive Spin Up
Spin Down Idle Disk
Enhanced data protection with Write Journaling feature
NVRAM keeps tracks I/O transaction logs
S.M.A.R.T Support
Auto Rebuild on spare drive
Hot-Plug and Hot-Swap support
Larger than 3 TB drive support
Bootable RAID Array support
Write Back or Write Through Cache support

Configuration Management Suites :	User friendly Browser-based Management Interface
	Easy to use BIOS configuration Tool
	Linux Command Line Interface (CLI) - Scriptable configuration tool
Supported Storage Expansion Options :	SAS Expander support
Monitoring and Management Support :	SMTP, SGPIO, SES2, LED Status, Event Log
Operating System Support :	OS X 10.5 and newer
Operating Temperature :	Work Temp: +5°C ~+ 55°C Storage Temp: -20°C ~ +80°C Relative Humidity: 5% ~ 60% non condensing
Operating Voltage :	12V/3.3V , Power: 11W
MTBF (Mean Time Before Failure) :	920,585 Hours
Certification Approval :	FCC, CE

SAS 6Gb/s Hardware RAID HBAs	RocketRAID 4520	RocketRAID 4522
Product Image		
Host Bus Interface	PCI-Express 2.0 x8	PCI-Express 2.0 x8
Number of Device Ports	8 Internal Ports	8 External Ports
Form Factor	Low Profile	Low Profile
Cable Included	Two mini-SAS cables: SFF-8087 to 4xSATA	n/a
Retail Box Dimensions	13.38" L x 7.68" H x 2.76" W	13.38" L x 7.68" H x 2.76" W
Retail Box Weight	0.94 lbs.	1.35 lbs.
UPC Code	643653452019	643653452217

Accessories	HPTBBU-05
Product Image	
Description	HPTBBU-05 is a Battery Backup Unit designed for use with RocketRAID 4500 Series HBA's. Battery Backup Units grant additional layers of data protection in the case of critical system faults and hardware failures.
Data Protection	Provides up to 72 hours of data protection.
Indicators	Low-charge warning indicator and audible alarm
Charge Time	Fully charges within 24 hours (from complete discharge to full capacity).

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