



## RocketRAID 3600 Series

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

### *SATA 6Gb/s Hardware RAID Solution*

#### HighPoint 6Gb/s SATA Hardware RAID Solutions

HighPoint RocketRAID HBA's are the industry's most affordable, 6Gb/s hardware RAID controllers. The RocketRAID 3600 series 6Gb/s 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.

#### 8-Port, PCIe x8 2.0 6Gb/s SATA Hardware RAID HBA

The RocketRAID 3600 HBA's dedicated RAID-on-Chip processor and 512MB of onboard DDR 3 cache memory offloads RAID processing from the host system, ensuring stable and high-performance data transfer.

#### Superior Reliability

HighPoint's comprehensive suite of data security, RAID recovery and storage maintenance features provide an unprecedented level of reliability. Integrated NVRAM with write journaling speeds recovery times by ensuring that all write transactions are logged by the HBA for retrieval in the event of a power outage or system failure.

Pro-active Bad Sector Repair and Remapping protects arrays in the event of sector failure by reconstructing data from redundant copies stored on other hard disks.

HighPoint's innovative RAID Recovery tool protects storage configurations by

securely storing multiple copies of RAID meta-data, and allows administrators to quickly restore a failed or disabled RAID array.

An optional battery backup unit, HPTBBU-05, improves recovery times and secures valuable data for up to 72 hours in the event of a power outage or non-storage related hardware failure.

#### HighPoint DVMode - Advanced Performance Assurance Technology

Video professionals may find that even hardware RAID-based storage systems will experience inconsistent performance when capturing or editing high quality digital video, which can greatly impede or even cripple the post-production process. These inconsistencies are caused by standard RAID caching algorithms, which are designed for server environments rather than media applications.

HighPoint has introduced DVMode, an innovative caching algorithm designed for the video production applications. DVMode reorganizes I/O in order to minimize the latency time of write-back caching workflow. This innovative new technology maintains consistent, sustained high-performance data transfer – a key component of any storage system dedicated to post production applications.

#### Comprehensive RAID & Storage Management Interface

The streamlined web-based user interface simplifies the storage

#### Feature Highlights



- PCIe 2.0 x8 Host Interface
- 8x 6Gb/s SATA Device Channels
- Hardware RAID 0, 1, 5, 6, 10, 50, JBOD
- OCE/ORLM Support
- Auto Rebuild on spare drive
- 4Kn Drive Compatible
- Bootable RAID Array support
- DVMode Performance Assurance Technology

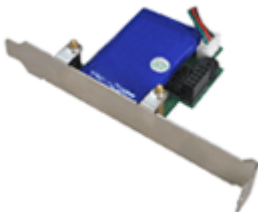
configuration process and allows customers to quickly assess total available capacity, the status of individual hard drives or SSD's, and the health of RAID and JBOD configurations. Optional auto rebuild and hot spare features add additional layers of data security to redundant RAID 5 and 6 configurations. Administrators can designate unused drives to automatically take the place of failed units or configure the RocketRAID 3600 HBA to immediately initialize rebuild process by simply plugging in a new drive. Advanced management features allow customers to manage storage remotely via an internet connection or local network, and configure Email notification to inform one or more users of changing storage conditions while outside of the work environment. In addition, optional CLI packages are available for Linux and FreeBSD platforms.

RocketRAID 3620 Technical Specifications	
<b>I/O Processor (ROC)</b>	6Gb/s SATA RAID-on-Chip Processor
<b>Cache Memory</b>	512MB DDR3 Cache memory with ECC protection
<b>Battery Backup Unit</b>	Optional Battery Backup Module (HPTBBU-05)
<b>Data Transfer Rate</b>	6Gb/s per port
<b>Number Of Device Ports</b>	Dual Mini-SAS Ports
<b>Host Bus Interface</b>	PCI Express 2.0 x8
<b>Device Connector Type</b>	SFF-8087 (RocketRAID 3620) / SFF-8088 (RocketRAID 3622)
<b>Onboard Indicators /Monitor</b>	Alarm Buzzer, LED indicators (RocketRAID 3620 only)
<b>Device Supported</b>	Directly supports up to 8 SATA devices
<b>Backward Compatibility</b>	Backward Compatible with HighPoint SATA RAID HBA
<b>Physical Form Factor</b>	Low Profile
<b>Dimensions</b>	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	
OCE/ORLM Support	
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	
4Kn Drive Compatible	
Bootable RAID Array support	
Write Back or Write Through Cache support	
DVMode Performance Assurance Technology	

<b>Configuration Management Suites :</b>	User friendly Browser-based Management Interface
	Easy to use BIOS configuration Tool
	Linux Command Line Interface (CLI) - Scriptable configuration tool
<b>Supported Storage Expansion Options :</b>	HighPoint 6Gb/s SATA Expander Modules
<b>Monitoring and Management Support :</b>	SMTP, SGPIO, SES2, LED Status, Event Log
<b>Operating System Support :</b>	Mac OS X 10.5.x and later, Windows Server 2012, 2008 / Window 8, 7, Vista. Major Linux Distributions (RHEL, CentOS, SLES, Fedora, Ubuntu and Linux Open Source Drivers), and FreeBSD
<b>Operating Temperature :</b>	0°C/50°C (use) / -20°C/70°C (store) or 32°F/122°F (use) / -4°F/158°F (store) Relative Humidity: 5% ~ 60% non condensing
<b>Operating Voltage :</b>	12V/3.3V , Power: 11W
<b>MTBF ( Mean Time Before Failure) :</b>	920,585 Hours

SAS 6Gb/s Hardware RAID HBAs	RocketRAID 3620	RocketRAID 3622
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	643653362004	643653362202

Accessories	HPTBBU-05
Product Image	
Description	HPTBBU-05 is a Battery Backup Unit designed for use with RocketRAID 3600 Series HBA's. Battery Backup Units grant additional layers of data protection in the case of critical system faults and hardware failures.
Features	<ul style="list-style-type: none"> <li>Provides up to 72 hours of data protection</li> <li>Fully charges within 24 hours (from complete discharge to full capacity)</li> </ul>
Indicators	Low-charge warning indicator and audible alarm

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