



## RocketStor 6628A

### 2<sup>nd</sup> Generation Thunderbolt™ 3 40Gb/s Hardware RAID Storage Enclosure



## Refined Performance, Reliability & Management Features

The RocketStor 6628A is ideal for professional media applications that demand uncompromised transfer performance combined with the superior data protection of hardware RAID 5 & 6. Designed for I/O intensive multi-task workflows such as media editing and post production applications, the RocketStor 6628A is powered by our industry proven hardware RAID stack and dedicated 40Gb/s Thunderbolt™ 3 transfer bandwidth.

### Streamlined RAID Management for Professionals

Each RocketStor 6628 RAID Enclosure includes our newly redesigned, easy to use web-based management utility. The built-in Array Configuration Wizard allows users of any experience level to create any type of RAID array in three easy steps; simply select your RAID level, pick your drives and go! Optional Advanced Management Features allow customers to fine tune RAID arrays for specific projects, with options to specify block size, enable DV Mode for digital media projects, designate spare disks for recovery, and schedule routine automated maintenance sessions with Email notification to keep one abreast of changing storage conditions while outside of the work environment.

### Fast, Consistent, & Smooth Data Transfer for large block size Applications

The RocketStor 6628A 2<sup>nd</sup> Generation Series Thunderbolt™ 3 RAID enclosures feature the latest iteration of HighPoint's industry proven Hardware RAID stack, which features substantial refinements to both transfer performance and stability for professional storage applications. RocketStor 6628A benefits from streamlined performance and highly stable transfers for large block size applications such as video production and editing, media streaming and content creation.

### Enhanced Storage Cooling Solution

The ability to manage the high-levels of heat generated by pronged, sustained I/O

sessions on today's high-capacity hard disks is a prime concern when choosing the right RAID enclosure solution. RocketStor 6628 Series RAID enclosures seamlessly integrate LED's, audible alarms, and superior cooling apparatus to ensure your storage investments and the critical data they host stay cool, healthy and productive. Proactive monitoring systems intelligently adjust fan speed on the fly to eject waste heat from the chassis and prolong the life of today's high-capacity SAS and SATA hard drives.

### High-Speed, Big Data or All-In-One: Your Choice!

The RocketStor 6628A is significantly more versatile than conventional external storage solutions, which rely on pre-packaged storage comprised solely of drives of the same speed and capacity. Customers are free to mix and match disks of different capacities and speed levels to meet the needs of any application; SSD's for Maximum Performance, HDD's for Mass Storage, or a combination of both for tasks that call for high-speed workspace and archiving capability. Projects utilizing 4K DPX 16 bit footage require approximately 1,790MB/s of transfer performance; it is capable of supporting full 4K uncompressed video production. In addition, if the source is ProRes 444, the RocketStor 6628A can support over 5 individual streams!

### HighPoint Hardware RAID Architecture

HighPoint's proven hardware RAID architecture incorporates dedicated processing and caching resources to maximize the performance and security of professional storage applications. This allows the RocketStor 6628A RAID enclosure to operate independently in order to minimize the impact of storage related I/O on the host system.

Unique to our hardware RAID solutions, 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 professional media applications.

### Key Benefits

- 2x Thunderbolt™ USB-C Ports featuring 40Gb/s Speed bandwidth
- Performance up to 2,700MB/s
- Integrated SAS/SATA Hardware RAID Technology
- Storage Capacity up to 8x 10TB or Larger Spindle HDD
- High-Speed Storage up to 8x SSD
- Blazing Fast, Consistent, & Smooth Data Transfer for large block size Applications
- Enhanced Storage Cooling Solution
- Refined 2<sup>nd</sup> Generation Chassis Design eases Maintenance

### Suggested Applications

- Mac and Windows based Media Workstations
- High-Speed data transfer & backup

### HighPoint DV Mode for Streaming 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.

### Robust RAID Protection

The 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.

### Storage Expansion Ready


Daisy-Chain capability allows customers to link as many as 6 independent RocketStor 6628A units using a single Thunderbolt™ 3 host port. The 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.

Feature Specifications	
Connection Type	Thunderbolt™ 3
Host Ports	2x Thunderbolt™ 3 Ports
Daisy Chain	Supports Daisy Chain connections of up to six Thunderbolt™ devices. (Note: the Daisy Chain will end when connecting a USB device or Display via USB-C)
TB3 Technology	<ul style="list-style-type: none"> <li>• Daisy Chain up to 6 devices</li> <li>• Bi-directional, dual-protocol (PCI Express and DisplayPort)</li> <li>• 8 lanes of Display Port 1.2 - supports dual 4K displays or one 5K display</li> <li>• Power delivery: 15W to bus-powered devices</li> <li>• Backward compatible with Thunderbolt™ 2 devices</li> <li>• USB-C ports compatible with existing USB devices and cables, support up to USB 3.1 10Gb/s speed</li> </ul>
RAID Type	Hardware RAID
RAID Support	0, 1, 5, 6, 10, 50 and JBOD
Capacity	Unlimited (Click <a href="#">here</a> for recommended HDD and SSD)
Number of Devices	Up to 8
Device Type	SAS, SATA
Device Form Factor	3.5" & 2.5"
Power Supply	250W Low Noise PSU AC INPUT: 100-240 V 50/60Hz
Cooling	Dual 80 x 80 x25mm Cooling Fans, Heat-Dissipating Aluminum Enclosure
Alarm Buzzer	Buzzer beeping when failed drive or array occurs
Material	Matte Plastic & Coated Aluminum
Dimension	13.00" (H) x 5.67" (W) x 10.12" (D)
Weight	12.9 lbs.
Warranty	3 Years
Performance	<b>HDD: 8x disks</b> RAID0 2000/1900 MB/s RAID5 1700/1000 MB/s <b>SSD: 8x disk (Read/Write)</b> RAID0 2700/2400 MB/s RAID5 2700/1000 MB/s

System Requirements	
Hardware	<ul style="list-style-type: none"> <li>• Computer with a USB-C (Thunderbolt™ 3)</li> <li>• Computer with a Thunderbolt™ 2 (via Thunderbolt™ 3 to Thunderbolt™ 2 Adapter)</li> </ul>
Windows	Window 8 and later Note: Your PC may require updates for the Thunderbolt™ 3 ports to function properly. See <a href="#">here</a> for more information.
Mac	macOS 10.10 and later
RAID Management	Browser-Based management tool
	Default no password needed to access WebGUI in Mac
	HDD Power, Present, Active, Fail, Rebuilding and Identify
	Email Alert Notification

Compliance Certification	CE, FCC, RoHS, REACH, WEEE
Operating Environment	
Temperature	(operating) 5°C – 45°C (non-operating) -40°C – 65°C
Humidity	(operating) 8% – 90% RH (Non-condensing) (non-operating) 5% – 95% RH (Non-condensing)

Advanced RAID Features	
Configurable RAID Block Size up to 1MB	Online Capacity Expansion (OCE) - <i>(not supported by macOS)</i>
Flash ROM for Upgradeable BIOS	RAID Initialization Background/Foreground/Quick
DV Mode Technology	Global Hot Spare Disk support
Storage Health Inspector	Automatic and configurable RAID Rebuilding Priority
Redundant RAID Configurations	NVRAM with Write Journaling enhances RAID integrity
Bootable RAID Array	Disk Format compatible: 512, 512e, 4Kn
EFI BIOS for Mac Platform	Larger than 2 TB Drive and RAID Array support
Multiple RAID Partitions supported	Spin down Massive Arrays of Idle Disks support
Online Array Roaming	Native Command Queuing
Online RAID Level Migration (ORLM) - <i>(not supported by macOS)</i>	Write Back and Write Through

Product Model	RocketStor 6628A
Product Image	
Retail Box Dimensions	15.35" x 9.25" x 13.39"
Retail Box Weight	12.9 lbs.
Kit Contents	1x 8-Bay Enclosure 8x Drive Trays 1x Thunderbolt™ 40Gb/s Cable 1x UL Power Cord 32x 3.5" HDD mounting screws 32x 2.5" SSD mounting screws 1x Quick Installation Guide
Optional Accessories	
Thunderbolt™ 3 cables	TB3-040G-505 - 0.5M, 40Gb/s TB3-040G-510 - 1M, 40Gb/s TB3-040G-520 - 2M, 40Gb/s TB3-020G-510 - 1M, 20Gb/s TB3-020G-520 - 2M, 20Gb/s

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