RocketStor 6618V & RocketStor 6614V
2nd Generation Thunderbolt™ 3 40GB/s RAID Storage Enclosure

Cost-Effective, Expandable RAID Storage Solutions for Personal, Professional and SMB Applications

RocketStor 661x RAID enclosures were designed for individuals, media professional and SMBs in the market for a cost-effective, expandable, high-density storage solution that can be easily integrated into any Thunderbolt™ 3 capable computing platform. RocketStor 661x Series Thunderbolt™ 3 RAID enclosures are capable of supporting any off-the-shelf SAS or SATA hard disk or SSD; any size, class, form factor and performance level. This provides customers with unparalleled flexibility, and the freedom to craft the perfect storage configuration for nearly any application or workflow.

Available with 4 or 8 hot-swappable drive trays capable of supporting either 3.5" or 2.5" storage media, RocketStor 661x series enclosures can easily accommodate 160TB or more storage capacity in a compact tower smaller than your average desktop workstation. Integrated RAID technology enables customers to fine-tune storage configurations to maximize performance, reliability or capacity, and safely expand or convert existing configurations without compromising critical data assets.

Rugged, Portable Storage Solution

The ruggedly constructed enclosures utilize a compact tower form factor comprised of a robust, cold-rolled steel core supplemented by an aluminum outer framework and paneling to reduce weight and maximize heat dissipation. Each unit weighs in under ten pounds, dry, and incorporates a frame mounted carrying handle for easy, secure portability.

Industry Proven RAID & Storage Technology

RocketStor 661x Thunderbolt 3 RAID enclosures are powered by HighPoint's industry proven RAID & Storage technology, and are capable of supporting one more RAID 0, 1, 5,10, 50 arrays, JBOD configurations and single drives. Our RAID technology provides several advantages over purely-software driven RAID solutions:

Online Array Roaming – RocketStor 661x series enclosures support Online Array Roaming, which simplifies storage upgrade and replacement. Customers are free to move the enclosure to any system with Thunderbolt™ 3 connectivity, and can even move the hosted drive media to other HighPoint series enclosures or controllers without having to start from scratch or recover an array. In addition, RocketStor 661x enclosures are also capable of recognizing arrays created with other HighPoint series products, even if drives are moved to different bays/ports.

Enhanced RAID Recovery: Streamline recovery sessions and enables customers to specify Rebuild priority to minimize downtime

Easily Expand or Convert existing storage: OCE (online capacity expansion) and ORLM (online RAID Level Migration) features enable customers to expand or covert arrays without compromising existing data.

Instant, Real-Time Storage Monitoring & Temperature Management System

RocketStor 661x series Thunderbolt 3 RAID enclosures are equipped with a selection of pro-active monitoring, alert and management features designed to simplify administration in the field.
The most prominent feature is the configurable 16x2 backlit LCD screen, which is an integral component of the enclosure's advanced cooling system. It provides administrators with instant, real-time temperature monitoring and full suite of fan controls.
Integrated LED indicators actively monitors the status of hosted storage devices with a simple and intuitive color-coding scheme; Yellow for warning, Red for failure or error, Green for Normal/Optimal.

Advanced Cooling System Maximizes the Reliability and Performance of Your Storage Investments

Built for professional applications and enterprise grade storage media, RocketStor 661x RAID enclosures are equipped with a highly advanced temperature monitoring

Key Benefits

- Robust Thunderbolt™ 3 4 & 8-Bay RAID Storage Solutions for Professional, Personal & SMB Applications
- Dual Thunderbolt™ USB-C Ports deliver 40Gb/s Transfer Performance
- Daisy Chain support for up to 6 Thunderbolt™ devices, including additional RocketStor 661x Enclosures
- 8x 2.5"/3.5" Hot-Swappable Drive Bays
- Integrated RAID Engine supports 0, 1, 5, 10, 50 & JBOD Configurations
- Easily Expand or Convert Storage Configurations without sacrificing existing data
- Advanced Cooling System with Adjustable Fan Control
- Integrated LCD Panel with Real-Time Storage & Temperature Monitoring
- Comprehensive, User Friendly RAID & Storage Management & Monitoring Suite
- For Windows, Mac, and Linux
- Built in Carry Handle for Easy Portability

and alert system designed to ensure hosted storage media deliver maximum performance and reliability. Two sets of powerful, low-decibel cooling fans – one for the storage media positioned directly behind the drive bays, and a second for the unit's power supply.

Intelligent, Automated Fan Control: The system operates in a default "Smart" mode, and will dynamically adjust fan speed to keep temperatures in check. Customers that need a more controlled working environment can use the front panel LCD to manually select from four speed settings, including an option to completely disable all four cooling fans. The system can also be controlled via the unit's software management interface from within the OS.

Configurable Temperature Thresholds: The WebGUI and CLI (command line interface) allow administrators to establish temperature thresholds for each hosted SSD or HDD. When a

threshold is breeched, the enclosure can be configured to sound the audible alarm, and report the problem via pop-up messages and email notification.

Comprehensive & Intuitive Storage Management & Monitoring Suite

RocketStor 661x series Thunderbolt 3 RAID Enclosures utilize the latest iteration of our universal web-based and command line management suite. A built-in configuration Wizards enable administrators of any experience level quickly and easily craft RAID storage for a wide range of applications.
Advanced Management Features allow customers to fine tune arrays for specific projects, with options to specify block size, enable auto-rebuild in the case of a disk failure, designate spare disks for recovery, and schedule routine automated maintenance sessions with Real-Time Event Logging and Email notification.

SHI (Storage Health Inspector) allows administrators to instantly check the operating status of storage devices in real-time. SHI utilizes SMART technology to log and report the physical characteristics of each hard drive or SSD, such as temperature, voltage and disk related warnings or errors.

Intelligent 1-Click Self-Diagnostic Solution: HighPoint's Web-based graphical management suite (WebGUI) now includes a host of automated diagnostic tools designed to streamline the troubleshooting process, even for novice administrators. Customers no longer have to manually assemble a collection of screenshots, logs and status reports when submitting support inquiries. 1-click enables the interface to gather all necessary hardware, software and storage configuration data and compile it into a single file, which can be transmitted directly to our FAE Team via our Online Support Portal.

Product feature	RocketStor 6614V	RocketStor 6618V
Description	4-Bay Thunderbolt 3 Tower RAID Enclosure	8-Bay Thunderbolt 3 Tower RAID Enclosure
Port Type	2x Thunderbolt™ 3 USB-C	
Number of Drives	4	8
Drive interface	12Gb/s SAS & 6Gb/s SAS/SATA	
Drive Form Factor	3.5" or 2.5" SSD or HDD	
Hot-Plug Support	Yes	
Host Interface	Thunderbolt™ 3 40Gb/s	
Daisy Chain Features	Supports Daisy Chain connections of up to six Thunderbolt™ devices. Notes: • The Daisy Chain will end if connected to a USB or Display device via USB-C • RAID5 & 6 configurations are not supported by Daisy Chain configurations • For optimal performance, the enclosure should be connected directly to the host's Thunderbolt™ 3 port	
Power supply	250W Internal Power Supply AC INPUT: 00-240V, 50/60Hz	
Enclosure Dimensions	5.80'' (W) x 9.12'' (H) x 10.24'' (D)	5.77'' (W) x 13.83'' (H) x 10.24'' (D)
Enclosure Weight	13.09 lbs.	16.07 lbs.
Fan control	Smart control & Manual control	
Warranty	1 Year	
Supported Systems		
Operating System	Windows 11, 10 Windows Server 2022, 2019, 2016 Microsoft Hyper-V Only supports 64 bit operating system.	
	Only supports 64 bit operating system. • Linux Driver can be installed via internet/network connection • Linux (Support Linux Driver auto Compile) • Redhat/Ubuntu/Debian/Fedora/Proxmox/Rocky Linux (Kernel 3.10 and later)	
	macOS 10.13 ~ macOS Sonoma 14.x	
Storage Configuration		
RAID Support	0, 1, 5, 6, 10 and JBOD / Non-RAID Mode	
TRIM RAID Support	Non-RAID Mode, JBOD, RAID 0, RAID 1, RAID10 (Supported by Linux, not supported for Windows or macOS)	
Boot RAID	No	
Data RAID	Yes	
Advanced RAID Features		
Storage Health Inspector	Yes	
Redundant RAID Configurations	Yes	
Multiple RAID Partitions supported	Yes	
Online Array Roaming	Yes	
Online RAID Level Migration (ORLM)	Yes (not supported by macOS)	
Online Capacity Expansion (OCE)	Yes (not supported by macOS)	
RAID Quick Initialization for fast array setup	Yes	
Global Hot Spare Disk support	Yes	
Disk Format compatible: 512, 512e, 4Kn	Yes	
Automatic and configurable RAID Rebuilding Priority	Yes	
Auto resume incomplete rebuilding after power on or reboot system	Yes	

Automatic remap and repair of bad blocks for RAID configurations (HDD)	Redundant RAID Levels (RAID1, RAID10, RAID5, RAID6)	
Write Back and Write Through	Yes	
Spin down Massive Arrays of Idle Disks support	Yes	
Native Command Queuing	Yes	
SAS TCQ	Yes	
Disk media scan and repair	Yes	
Staggered Drive Spin Up	Yes	
Storage Configurations Support Details	Direct Attached	
Storage Monitoring and Management Suite		
Browser-Based management tool	Yes	
CLI (Command Line Interface- scriptable configuration tool)	Yes	
API package	Yes	
Drive LED Indicator: Power, Present, Active	Yes	
SMTP Email Alert Notification	Yes	
Alarm Buzzer	Yes	
Top panel		
Portable components	Bearing less than or equal to 18KG	
Front Panel		
Display screen	16x2 LCD display with user-controlled blue backlight	
Navigation key	4x navigation keys, respectively execute down, up, right, enter commands	
Status LED	Solid Blue: Normal status	
	Flashing Yellow light: The Enclosure's temperature has exceeded the warning threshold or the fan speed is below normal operating levels	
	Red light flash: The fan speed is below the recommended minimum threshold	
	Solid Red: The temperature is over than waning threshold (default: 60 celsius)	
Hard drive bays	4x 3.5"/2.5" drive bays	8x 3.5"/2.5" drive bays
Disk LED Indicator	The first LED (top): Solid Blue: Disk has connected Blue light flash: activity No light: idle	
	The second LED (below): No light: Disk not connect Solid Red: Disk is Fail	
BackPanel		
100M Ethernet RJ45 Port	1x 100M Ethernet RJ45 Port	
Thunderbolt Port	2x Thunderbolt™3	
Multi-Function Button	Power & Error Alarm control Note: short press to turn on, long press for 3 seconds to shut down, short press to mute when the alarm sounds	
Kensington Lock	Use a computer lock through the keyhole to lock the device to prevent theft.	
Power Switch	Turn on/ off the whole power of the Enclosure	
Power Port	1x AC power interface	
Exhaust port	1x power supply cooling exhaust vent	
	1x body cooling exhaust vent	2x body cooling exhaust vent
Compliance Certification	CE FCC RoHS REACH WEEE	
Operating Environment		
Temperature	(operating) 5°C – 45°C (non-operating) -40°C – 65°C	

Kit Contents

Kit Contents	1x 4-Bay Enclosure 4x 3.5 Inch Drive Trays 1x 40Gb/s Thunderbolt™4 1M cable 1x UL Power Cord 20x 3.5" HDD mounting screws 20x 2.5" SSD mounting screws 1x Quick Installation Guide	1x 8-Bay Enclosure 8 x 3.5 Inch Drive Trays 1x 40Gb/s Thunderbolt™4 1M cable 1x UL Power Cord 35x 3.5" HDD mounting screws 35x 2.5" SSD mounting screws 1x Quick Installation Guide