

eNVMe SSD6540M

4-Bay M.2 NVMe RAID Enclosure

- Blistering 14,000 MB/s Transfer Performance!
- 4x Faster than Thunderbolt™ 3!
- Up to four M.2 NVMe SSD's
- Supports RAID 0, 1, 10, & Single Disk
- Dedicated PCIe 3.0 x16 Host Interface
- Windows, Linux & macOS platforms



High-Performance External NVMe Storage; Up to 14,000MB/s!

The SSD6540M a four-bay external NVMe storage solution designed to deliver dedicated, host-to-device PCIe Gen3 x16 transfer bandwidth. The unique hardware architecture allocates x4 lanes to each drive bay to ensure the hosted M.2 SSD operates at peak performance. The SSD6540 is offered as a complete, stand-alone solution, and includes a compact 4-Bay NVMe U.2 enclosure, PCIe 3.0 x16 controller card with external SFF-8644 connectors, two SFF-8644 8x data cables, and all necessary fastening and power accessories.

Industry Proven RAID Technology

The SSD6540 is powered by our industry leading NVMe RAID technology, and delivers class leading cost/performance benefits. Customers can easily configure one or more RAID 0, 1 or 10 arrays to satisfy the demands of a variety of high-density storage applications including media post production, HD media capture, scientific/R&D, and developmental workstations.

Comprehensive Management & Monitoring Suite

SSD6540 Series enclosures include a comprehensive suite of graphical and command-line based management and monitoring tools suitable for administrators of any experience level. The **WebGUI** is a simple, intuitive Web-based graphical user interface. It is equipped with Wizard-like quick configuration menus as well as a suite of advanced tools for expert administrators. The **CLI (Command Line Interface)** is ideal for seasoned administrators or platforms that do not utilize graphical operating systems.

SHI (Storage Health Inspector): instantly check the status of NVMe media in real-time. SHI utilizes SMART technology to log & report the physical characteristics of each SSD, such as temperature, voltage & TBW (Total Bytes Written).

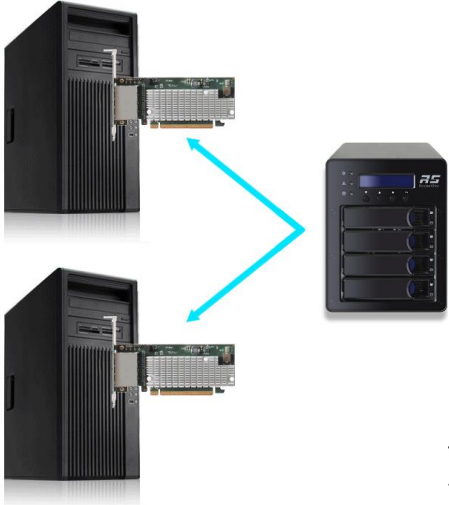
Intelligent 1-Click Self-Diagnostic & Logging Solution: HighPoint's WebGUI includes a host of automated diagnostic tools designed to streamline the troubleshooting process, even for novice administrators. The Diagnostic tab enables the interface to gather all necessary hardware, software and storage configuration data and compile it into a single file, which can be transmitted directly to our FAE Team via our Online Support Portal.

Rapidly Adapts to Changing Workflows

The SSD6540M’s flexible architecture enables you to adapt or transform NVMe storage to meet the needs of each application.

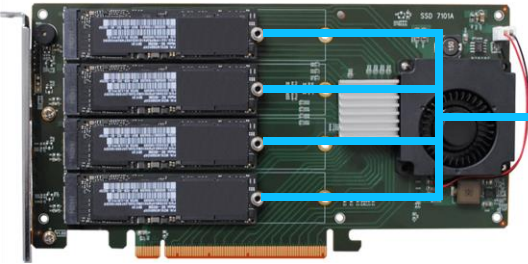
A single SSD6540M enclosure can be shared between multiple desktops and workstations – the included controller card is also available as a standalone accessory, and can be installed into any system with a free dedicated PCIe 3.0 x16 slot.

In addition, M.2 SSD’s hosted by the SSD6540M can be installed into any M.2 capable SSD7100 series RAID controller; your array and data will remain intact and accessible.



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M.2 SSD’s can be moved between the SSD6540M and SSD7100 Series RAID controllers

Optimized for Serviceability

The SSD6540M's is ideal for professional applications that require a robust, easily serviceable, high-speed storage solution. Unlike other M.2 based storage solutions, the SSD6540M’s four removable drive bays enable quick and safe access to the NVMe media to streamline upgrade, transfer or maintenance sessions. The professional-grade, all-aluminum enclosure is rugged enough for work in the field, yet perfectly suitable for live-demoing a media project or delivering finished product direct to the client.



Built-in LCD screen Streamlines Monitoring & Maintenance




Each SSD6540M features a built-in LCD screen that displays environmental conditions in real-time. Customers can quickly access the temperature of storage configurations and adjust fan speed to ensure the NVMe drives stay healthy and run optimally. In addition, a built-in alarm can be set to activate in the case of temperature or enclosure related warning or failure.



Feature Specifications	
Bus Interface	16-lane, PCI Express 3.0 Compliant
Bus Speed	128Gbps
Data Transfer Rates	8GT / 8Gbps per lane
Number of Devices	4
Form factor	2.5" M.2 (2242/2260/2280)
Capacity	Unlimited
Storage Mode	Data storage (<i>non-bootable</i>)
Platform Support	SSD / motherboard compatibility list Windows 10 / Windows Server 2012 R2 or later
Operating System	Linux Kernel 3.10 or later macOS 10.13 and later
Storage Health Inspector	NVMe SSD SMART and TBW status
TRIM Support	RAID 0, 1, 10
Cross-Sync RAID Solution Across Controllers	macOS and Windows
Power Supply	250W PSU Low Noise AC INPUT: 100-240 V 50/60Hz
Cooling	Aluminum casing with single 80x80 fan
Material	Brushed aluminum housing
Dimensions	5.71" (W) x 7.67" (H) x 10.23" (D)
Weight	12.1 lbs.
Warranty	1 Year
Compliance Certification	CE, FCC, RoHS, REACH, WEEE
MTBF	920,585 Hours

Advanced RAID Features	
RAID Level support	RAID 0, 1, 10, Single Disk Note: RAID 1/0 is the equivalent of RAID 10
Web based SSD Storage Manager	Yes
Disk media scan and repair	Yes
Device Error Recovery support	Yes
Monitoring and Management Suite	
LED Features	Device: Present, Active Enclosure: Power, Warning, Fail
LCD Features	<ul style="list-style-type: none"> Show enclosure temperature Show fan speed Smart fan or manual fan speed control Enable/Disable LCD backlight
Management Suites	<ul style="list-style-type: none"> Browser-Based management tool CLI (Command Line Interface) API package
SMTP Email Alert Notification	Yes
Alarm Buzzer (mutable)	Enclosure error or temperature over 50°C
Operating Environment	
Temperature	(operating) +5°C ~ +55°C (non-operating) – 20°C ~ +80°C"
Relative Humidity	5% ~ 60% (Non-condensing)
Operating Voltage	PCI-e: 12V, 3.3V
Power	Typical: 25W

Kit Contents	1x PCIe 3.0 x16 RAID Controller, 1x 4-Bay M.2 SSD Enclosure, 2x SFF-8644 x8 cables (1 meter), 1x Quick Installation Guide
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Optional Accessories	
	<p>8644-8644-220</p> <p>The 8644-8644-220 2 meter , external NVMe PCIe 3.0 x8 SFF-8644 to SFF-8644 cable was designed for use HighPoint SSD6540 series eNVMe RAID Enclosures, and has been thoroughly tested to ensure ease of integration and to streamline maintenance or upgrade procedures.</p>
	<p>R744A</p> <p>Internal PCIe 3.0 x16 adapter card designed for use with SSD6540 series NVMe RAID Enclosures. Each card features four external SFF-8644 connectors.</p>
	<p>RS6540M-Tray</p> <p>Spare/replacement drive tray for the SSD6540M NVMe RAID Enclosure.</p>

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