

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
- Easily Access M.2 Drives
- PCIe 3.0 x16 Host Interface
- Windows, Linux & macOS platforms



The Fastest External Desktop Storage – 14,000MB/s! Powered by M.2 NVMe SSD's

The SSD6540M is designed for professional grade, performance-hungry applications that demand uncompromised transfer bandwidth. The unique NVMe architecture provides dedicated PCIe 3.0 x4 bandwidth for each drive-bay; this allows each M.2 SSD to interface directly with the platform's CPU, and deliver sustained transfer performance in excess of 14,000MB/s – faster than any other external desktop RAID storage solution in today's marketplace!

PCIe Gen3 x16 NVMe RAID Turnkey Solution

The SSD6540M is the industry's first external NVMe storage solution to deliver uncompromised end-to-end PCIe Gen 3.0 x16 transfer bandwidth. Our innovative external data cables work in conjunction with the removable M.2 drive bays to deliver dedicated PCIe 3.0 x4 transfer bandwidth; this unique, performance-focused architecture ensures each M.2 SSD operates at peak performance. The SSD6540M is a complete, stand-alone solution, and includes a 4-Bay NVMe M.2 enclosure, PCIe 3.0 x16 controller card with external SFF-8644 connectors, two SFF-8644 PCIe Gen3 x8 data cables, and all necessary fastening and power accessories.

Powered by Proven RAID Technology

The SSD6540M is powered by our industry proven NVMe RAID technology, and can accommodate a variety of RAID and non-RAID storage configurations, including single M.2 SSD's and multiple RAID arrays.

- **RAID 0:** Also known as a "stripe" array. This mode delivers Maximum Performance, and requires 2 to 4 M.2 SSD's.
- **RAID 1:** This mode creates a hidden duplicate of the target M.2 SSD, and requires 2 drives.
- **RAID 5:** Stripe with Parity – this mode requires 3 or 4 M.2 SSD's, and provides a boost in performance and enables your data to remain intact should 1 M.2 drive fail.
- **RAID 1/0:** Mirrored Stripe arrays. This mode requires 4 M.2 SSD's – it will mirror the data of one stripe array to a second, hidden stripe array for security.

Robust & Simple NVMe RAID Management

Each SSD6540M RAID Enclosure includes a simple, intuitive web-based management interface. A Quick Configuration menu allows new users to get everything up and running with a few simple clicks. Experienced Pros can fine tune configurations for specific applications using the Advanced Options menu.

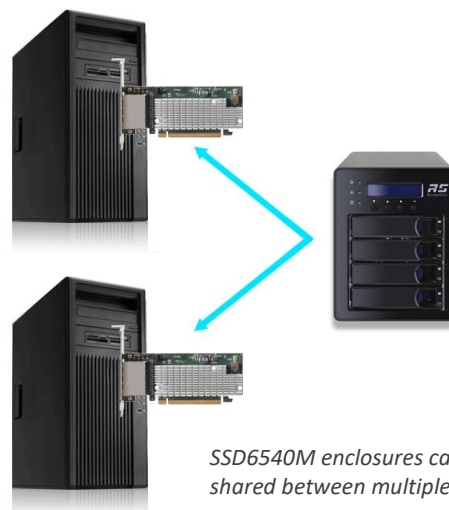
Integrated TRIM & S.M.A.R.T. Monitoring with Terabyte Written (TBW) Tracking: TRIM streamlines performance and expands the lifespan of NVMe storage by enabling each SSD to handle garbage collection more efficiently, which helps eliminate write speed degradation. S.M.A.R.T. monitoring allows you to check the temperature, voltage and TBW of each NVMe SSD.

Rapidly Adapts to Changing Workflows

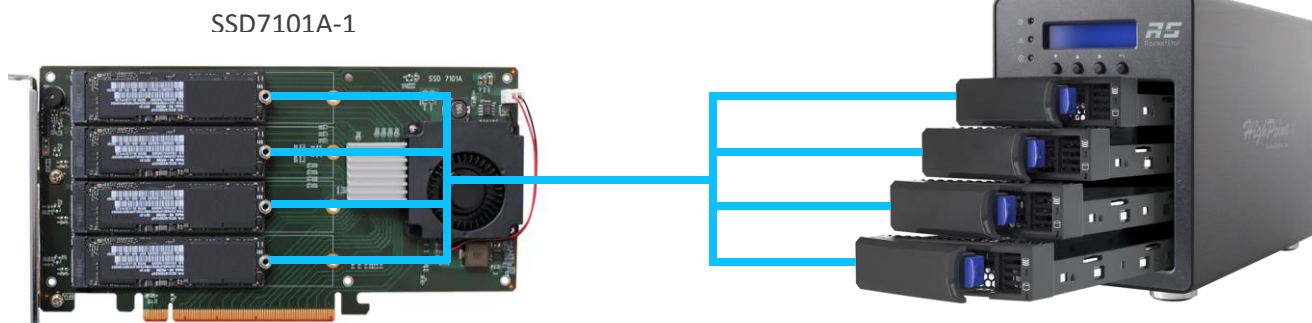
The SSD6540M's flexible architecture enables you to adapt or transform NVMe storage to meet the needs of each application.

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.



SSD6540M enclosures can be shared between multiple systems



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-demos of 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
Capacity	Unlimited
Storage Mode	Data storage (<i>non-bootable</i>)
Platform Support	SSD / motherboard compatibility list
Operating System	Windows 10 / Windows Server 2012 R2 or later
	Linux Kernel 3.3 or later
	macOS 10.13 and later
Storage Health Inspector	NVMe SSD SMART and TBW status
TRIM Support	RAID 0, 1, 1/0
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	2 Years
Compliance Certification	CE, FCC, RoHS, REACH, WEEE
MTBF	920,585 Hours

Advanced RAID Features		
RAID Level support	RAID 0, 1, 5 and 1/0, RAID 5: macOS not supported; please contact support@highpoint-tech.com for further information) 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	

Optional Accessories	
	<p>8644-8644-220 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 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 Spare/replacement drive tray for the SSD6540M NVMe RAID Enclosure.</p>

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