Marketing Specification

Model: BP-G5CNVME42525M2

NVMe Pro Series - M.2 NVMe SSD Storage Cage

PCIe 5.0 ultra-performance storage expansion for

enterprise servers, AI workloads, and professional workstations

Drive Support	Host Interface	Cooling	Power Input
Up to 4 x M.2 NVMe SSDs	2 x MCIO x8	40 x 10 mm blower fan	1 x EPS 8-pin CPU power

Product Overview The BP-G5CNVME42525M2 is a compact, front-accessible storage cage designed to support up to four M.2 NVMe SSDs in demanding computing environments. With PCIe Gen5 compatibility, active thermal management, and enterprise-oriented mechanical design, it provides a practical storage expansion solution for next-generation systems.

High-Speed Transmission Performance

- Supports PCI Express (PCIe) Gen5 specification.
- Supports PCIe 3.0 / 4.0 / 5.0 signaling with up to PCIe x4 per SSD path, depending on host platform configuration.
- Designed for high-bandwidth, low-latency storage applications.

Flexible Connectivity Architecture

- Half-width 5.25-inch drive bay form factor.
- Supports up to 4 x M.2 M-Key NVMe SSDs.
- Supported SSD lengths: 2230 / 2242 / 2260 / 2280.
- Host interface: 2 x MCIO x8 connectors.
- Compatible with PCIe Gen5 platforms and backward compatible with Gen4 / Gen3 systems.

Mechanical and Thermal Construction

- Aluminum frame, heatsink, and bezel for durability and thermal efficiency.
- Stainless steel high-grade tray and heat-resistant thermoplastic (UL-94V0).
- 8 W/m-K thermal pad and integrated active blower cooling design.
- 1 x 40 x 10 mm blower fan, rated at 15,000 RPM.

Usability and Reliability Features

- Tri-angle key lock for added security.
- Front-accessible design for simplified SSD installation and maintenance.
- Optimized PCB layout and material selection for PCIe Gen5 signal integrity.
- Reinforced structure intended for continuous professional operation.

Status Indicators and Installation

- LED indication: Green = Power, Orange = Access, Red blinking = Overheating / fan failure.
- SSD installation method: standoff and screw.
- Power input: 1 x EPS 8-pin (2x4) connector.
- Use ATX CPU power cable only; do not use PCIe GPU power cable.

Mechanical Specification

- Dimensions: 186.5 (L) x 72.4 (W) x 39.8 (H) mm.
- Optimized airflow design for sustained thermal stability.
- Intended for enterprise and professional computing systems.

Recommended Applications

- Enterprise servers
- AI and acceleration platforms
- High-performance storage systems
- Professional workstations requiring dense front-access NVMe storage