

Model No.: BP-G5CNVME4525



1. Product Overview

The Athena BP-G5CNVME4525 is a full 5.25-inch bay form factor backplane supporting up to 4 x NVMe SSDs (7–15mm height) using the U.2/U.3 NVMe Gen5 interface with dual MCIO x8 connectors.

Engineered with superior signal integrity and thermal performance, it is ideal for high-performance computing, data center, and enterprise applications demanding reliable Gen5 transfer speeds.

2. Main Features

- Metal frame with stainless HDD carriers for durability
- Worry-free sliding-in carrier design for easy tray installation
- 1 x 5.25" bay backplane for 4 x 2.5" NVMe SSD, U.2/U.3 solution
- 2 x 15-pin power connectors + MCIO x8 x2 connectors
- Supports 4 x 2.5" NVMe U.2 or U.3 SSD (or M2U04 for 4 x NVMe M.2 SSD)
- Individual carriers for each SSD – hot-swappable design
- Security metal key lock with 2 keys included
- Support for U.2 / U.3 Gen4 and Gen5 SSDs with reliable performance
- Dual 4020 cooling fans for superior cooling and fast heat dissipation
- Vibration-reducing springs on each HDD tray for stability
- LED indication: Power On (solid green) / Accessing (orange blinking)
- Proven Gen5 signal integrity with clean, interference-free eye diagram test results

3. Technical Specifications

Form Factor	1 x 5.25" bay backplane
Supported Drive Type	4 x 2.5" NVMe SSD (U.2/U.3, 7–15mm height)
Interface	2 x MCIO 8i connectors (PCIe Gen5)
Power Connector	2 x 15-pin power connectors
Cooling	2 x 4020 fans
Material	Metal frame with stainless HDD/SSD carriers
Signal Integrity	Clean & robust Gen5 eye diagram (no interference or leakage)
LED Indicator	Power On: Solid Green / Accessing: Orange Blinking
Dimensions	161.5 x 145.8 x 41.6 mm
Weight	0.62 kg

4. Applications

- Enterprise and data center servers
- High-performance computing systems
- Industrial automation and control systems
- Workstations requiring high-speed NVMe storage access

5. Ordering Information

Model No.	Description	Remark
BP-G5CNVME4525	5.25" Bay Backplane for 4 x NVMe SSD (U.2/U.3, Gen5, Dual MCIO x8)	Include dual 4020 fans and key lock

ATHENA COMPUTER POWER CORP. reserves the right to make changes to the product at any time without notice.