HighPoint

Technologies, Inc.

RocketAIC 7105HM

PCIe 3.0 x16 NVMe Expansion Drive Series

Ultra-Speed PCIe Gen3 x16 Storage Expansion Drives

4TB

RocketAIC Series PCIe Expansion Storage Drives

If you are in the market for a high-speed storage solution for your Mac Pro workstation, NVMe media's combination of performance, high-reliability and ultra-compact packaging is simply too good to ignore. However, the process of determining which NVMe controller and SSDs best addresses the needs of your application, and ensuring this combination can be readily integrated with your macOS/ Mac Pro environment, is no easy task.

Until now that is – HighPoint has launched a new series, NVMe storage drives for Apple's new M2 and 2019 Mac Pro platforms.

Designed for performance-hungry applications, RocketAIC Drives leverage Broadcom's state of the art PCIe Gen4 switch technology and HighPoint's proven NVMe Hardware architecture and advanced cooling solutions to ensure each SSD delivers maximum throughput at all times.

Designed & Fully Tested for Mac Pro workstation

RocketAIC series PCIe expansion drives were designed for high-productivity Mac Pro workstations and grueling workflows that demand maximum uptime and transfer throughput to ensure projects stay on schedule without compromising quality. The product line has been extensively tested with both 2023 and 2019 Mac Pro workstations to streamline the integration process and ensure full compatibility. We've evaluated the performance capabilities of each PCIe slot to identify which is the ideal match for each RocketAIC drive.

RocketAIC 7105HM

The compact expansion drive is available with up to 4TB of preconfigured storage, and can be easily installed into any 2023 or 2019 Mac Pro workstation with a free PCIe x16 slot. RocketAIC 7105HM drives leverage four Samsung 980 series NVMe SSDs to maximize random I/O performance, minimize latency and deliver up to 14GB/s of sustained transfer bandwidth.

Broadcom Inside!

RocketAIC NVMe expansion drives incorporate Broadcom PCIe switch chipsets, to optimize signal integrity, reduce latency, maximize transfer throughput and provide an abundance of electrical lanes. The highly flexible, performance-focused hardware architecture is unique to our NVMe solutions and ensures bandwidth is never wasted. The RocketAIC 7140AM allocates a dedicated x16 lanes of upstream bandwidth, and x4 lanes of downstream bandwidth to each device, and is capable of delivering 14GB/s of transfer throughput; the maximum possible from a single-slot PCIe Gen3 expansion drive!

Your Choice: Maximum Transfer Speed & Capacity, Maximum Data Security, or the Best of Worlds!

RocketAIC NVMe expansion drives were designed to accommodate a wide-range of high-performance workflows, including AI learning and AV systems, content creation and post-production platforms, and high-speed data ingestion and media capture solutions. RocketAIC drives are shipped pre-configured to maximize storage capacity and performance, but can be easily reconfigured using our quick and intuitive management suite.
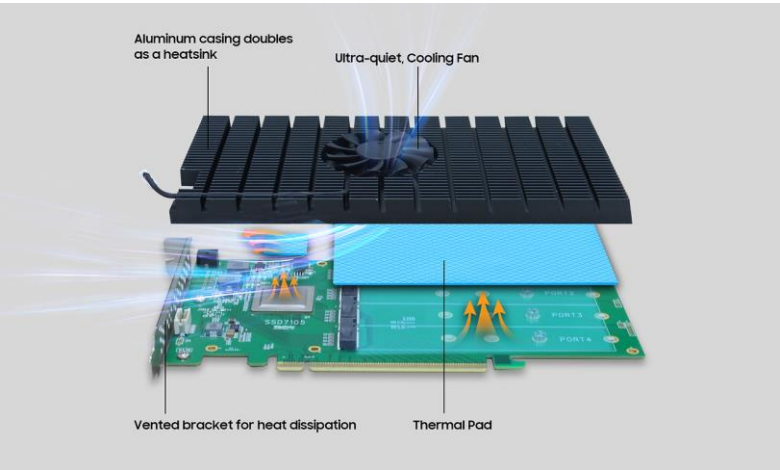
Feature Highlights

- Dedicated PCIe Gen3 x16 Host Bandwidth delivers up to 14,000MB/s
- Powered by Samsung's Class-Leading 980PRO SSDs
- Powerful, Low-Decibel NVMe Hyper Cooling Solution
- Up to 4TB of Storage Capacity
- Tuned for Maximum Performance & Capacity

Striping - This mode delivers Maximum Performance and capacity by linking multiple NVMe SSDs together to act as a single storage unit.

Mirroring - This mode creates a hidden duplicate of the target SSD, and is ideal for applications that require an extra layer of data security, including bootable volumes.

Security & Speed –This mode offers the best of both worlds. Two mirrored arrays are striped together to maximize performance with a layer of data redundancy.

Advanced NVMe Cooling Solution

The RocketAIC 7105HM is equipped with HighPoint's advanced NVMe cooling solution, which mitigates the risk of thermal throttling by ensuring each hosted SSDs consistently operates within their recommended temperature thresholds, even under sustained heavy I/O. Each AIC features a full-length anodized aluminum heat sink equipped with a robust, low-decibel cooling fan and high-conductivity thermal padding. This innovative, ultra- efficient cooling system rapidly transfers waste heat away from critical componentry, without compromising sensitive into working environments.

Quick & Intuitive Management Suite

Though RocketAIC series drives are designed to work right out of the box, customers are free to install HighPoint's intuitive WebGUI management software, which includes our SHI solution, and provides simple and quick real-time temperature monitoring and endurance tracking. Quick, and easily mastered, the WebGUI works with all modern web browsers and can be used to manage, configure and monitor every aspect of your RocketAIC NVMe drive with a few simple clicks.

Product feature	RA7105HM-A04T0-03
Capacity	4TB
Performance	Sequential Read (MB/s): 14010
	Sequential Write (MB/s): 13470
RAID Support	RAID 0, 1, 10, Single-Disk
TRIM RAID Support	RAID 0, 1, 10, Single-Disk
Number of Channel / Port	4
Port Type	M.2
Data Transfer Rate	8GT/s
Number of devices	4
SSD Form Factor	2280
Card Dimensions	7.68"(W) x 4.37"(H) x 0.95"(D)
Card Weight	1.40 lbs.
Warranty	3 Years
	TBW(Total SSDs): 2400TB TBW(Single SSD): 600TB
SED	No
Supported Systems	
OS (Only supports 64-bit OS)	macOS 10.13 ~ macOS Ventura 13.x
System Requirements	Mac Platforms: Apple Mac Pro 2023 & 2019
Secure Boot	No
Storage Mode - NVMe	
Data RAID	Mac
NVMe Storage Management	
Management Suites	WebGUI (Browser-Based management tool)
SMTP Email Alert Notification	Yes
Alarm Buzzer	Yes
Storage Health Inspector	Yes
NVMe SMART status	Yes
Automatic and configurable RAID Rebuilding Priority	Yes
Auto resume incomplete rebuilding after power on or reboot system	Yes
Single-RAID or Multi-RAID Arrays per Controller	Yes
Cross-Sync RAID Solution Across Controllers	Yes

Advanced RAID features	
Online Array Roaming	Yes
RAID Quick Initialization for fast array setup	Yes
Global Hot Spare Disk support	Yes
Flash ROM for Upgradeable UEFI	No
Bootable RAID Array	No
Operating Environment	
Work Temp	+5°C ~ + 55°C
Storage Temp	-20°C ~ +80°C
Operating Voltage	PCI-e: 12V, 3.3V
Power	43.92W
MTBF	1.5 million hours
Certification / Approval	CE, FCC, RoHS, REACH, WEEE
Kit Contents	
RocketAIC 7105HM-A04T0-03	1x RA7105HM-A04T0-03 (includes 4 x Samsung 980 Pro 1TB MZ-V8P1T0B M.2 NVMe)
	1x QIG

RocketAIC 7105H