HighPoint
Technologies, Inc.

RocketAIC 7204HM
PCIe 3.0 x8 NVMe Expansion Drive Series

Ultra-Speed PCIe Gen3 x8 Storage Expansion Drives

8TB

The Industry's Most Cost-Effective High-Density NVMe Storage Drive for Mac Pro Platforms

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 and physical requirements of each PCIe slot to identify which is the ideal match for each supported RocketAIC drive.

RocketAIC 7204HM

The RocketAIC 7204HM is the industry's most cost-effective high-density, PCIe expansion storage drive for 2023 and 2019 Mac Pro Platforms. Equipped with four of Samsung's 980 PRO series NVMe SSDs, RocketAIC 7204HW drives provide 8TB of pre-configured storage and deliver over 7000MB/s of sustained transfer performance.

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.

Striping - This mode delivers Maximum Performance and capacity by linking multiple NVMe SSDs together to act as a single storage unit.
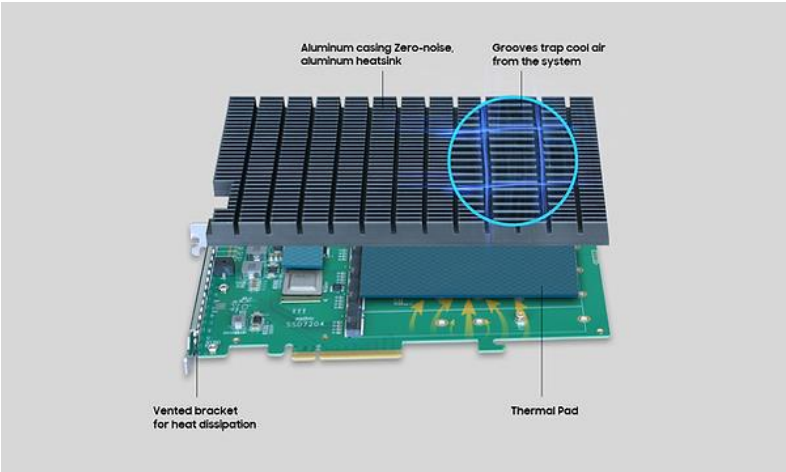
Mirroring - This mode creates a hidden duplicate of the target SSD, and is ideal for applications that require an extra layer of data security, including bootable volumes.

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.

Feature Highlights

- Dedicated PCIe Gen3 x8 Host Bandwidth delivers up to 7,000MB/s
- Powered by Samsung's Class-Leading 980PRO SSDs
- Passive, Silent NVMe Cooling Solution
- Up to 8TB of Storage Capacity
- Tuned for Maximum Performance & Capacity

Passive, Silent NVMe Cooling Solution

The RocketAIC 7204HM's completely silent fan-less cooling system was designed for professional applications that require a quiet, controlled working environment. This system combines a full-length anodized aluminum heatsink with high-efficiency thermal padding designed to rapidly whisk waste heat away from critical componentry and the hosted 980 PRO SSDs, and ensure the drive operates at peak performance under the most demanding workloads.

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	RA7204HM-A08T0-00
Capacity	8TB
Performance	Sequential Read (MB/s): 7280
	Sequential Write (MB/s): 6970
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 4.41" (H) x 0.71" (D)
Card Weight	1.47 lbs.
Warranty	3 Years
	TBW(Total SSDs): 4800TB TBW(Single SSD): 1200TB
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
Operating Environment	
Work Temp	+5°C ~ + 55°C
Storage Temp	-20°C ~ +80°C
Operating Voltage	PCI-e: 12V, 3.3V
Power	36.45W
MTBF	1.5 million hours
Certification / Approval	CE, FCC, RoHS, REACH, WEEE
Kit Contents	
RocketAIC 7204HM-A08T0-00	1x RA7204HM-A08T0-00 (includes 4 x Samsung 980 Pro 2TB MZ-V8P2T0B M.2 NVMe)
	1x QIG

RocketAIC 7204H