



# RocketAIC 7505H

4x M.2 to PCIe 4.0 x16 NVMe Drive Series

*Delivers Best-in-Class Storage Performance and Reliability*



### RocketAIC 7000 Series NVMe Drives

If you are looking for a high-speed storage solution for a professional workstation environment, NVMe media is a must-have. NVMe's combination of performance and reliability in a compact package is simply too good to ignore. However, the process of selecting the right NVMe controller and SSD for the job and then hoping everything meshes well with your platform, can lead to major headache, and time-sink.

HighPoint takes the guess work out of NVMe storage technology. If you need the fastest, most reliable turnkey NVMe storage in today's marketplace, you need a RocketAIC NVMe drive.

HighPoint RocketAIC Drives employ industry-proven storage technology, precision engineered hardware architecture, and class-leading media from today's premier NVMe vendors to deliver the speed, endurance and reliability customers expect from a professional-grade storage solution. Designed for PC-based workstation platforms and performance-hungry applications, RocketAIC NVMe drives leverage Broadcom's state of the art PCIe Gen4 switch technology and HighPoint's proven NVMe Hardware Cooling solutions to ensure each SSD delivers maximum throughput at all times.

### RocketAIC 7505H

RocketAIC 7505H series NVMe Drives deliver unbeatable storage performance and reliability in a compact, easy to install package that is ready for use right out of the box! Each NVMe drive includes four of Samsung's blazing-fast 980PRO 2TB M.2 SSDs, pre-configured to deliver maximum performance and capacity. This combination delivers up to 8TB of storage at speeds up to 27GB/s.

### Broadcom Inside!

RocketAIC NVMe drives incorporate Broadcom PCIe switch chipsets, to optimize signal integrity, reduce latency and maximize transfer throughput. an abundance of electrical lanes: 48 for the RocketAIC 7505H.

The highly flexible, performance-focused hardware architecture is unique to our NVMe solutions and ensures bandwidth is never wasted. The RocketAIC 7505H allocates a dedicated x16 lanes of Upstream bandwidth, and x4 lanes of downstream bandwidth to each device. This combination delivers a guaranteed 27GB/s of transfer performance using just four SSDs!

### Powered by Samsung's Class-Leading 980PRO M.2 SSDs

RocketAIC 7505H series NVMe drives are powered by Samsung's proven 980PRO series M.2 SSDs, which deliver client class - leading I/O performance and reliability. RocketAIC 7505H drives deliver a potent combination of blazing transfer speeds and high-endurance reliability, and are equally suited for professional workflows and personal high-performance computing applications.

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

RocketAIC NVMe 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 and capacity, but can be easily reconfigured using our quick and intuitive management suite.

**Striping** - This mode delivers Maximum Performance and capacity by linking multiple NVMe SSD's 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 Gen4 x16 Host Bandwidth delivers up to 27,000MB/s
- Powered by Samsung's Class-Leading 980PRO SSDs
- Powerful, Low-Decibel NVMe Hyper Cooling Solution
- Up to 8TB of Storage Capacity
- Tuned for Maximum Performance & Capacity

### PCIe-Gen4 Hyper-Cooling Solution

In order to optimize NVMe storage performance, you will need a reliable way to keep temperatures in check. RocketAIC NVMe drives were designed to mitigate the threat of thermal throttling to excel in high-stress computing environments. The proven PCIe Gen4 NVMe Hyper-Cooling solution was engineered to perform optimally in demanding workflows while generating minimal noise. The system leverages a full-length anodized aluminum heatsink with a powerful low-decibel cooling fan and high-efficiency thermal padding to rapidly transfers waste heat away from sensitive hardware and ensure the Samsung 980PRO SSDs always perform optimally, even under maximum load.

### Quick & Intuitive Management Suite

Though designed to work right out of the box, customers are free to install HighPoint's intuitive management software suite, which includes our SHI solution (Storage Health Inspector). SHI provides real-time temperature monitoring & endurance tracking. Quick, and easily mastered, the WebGUI can be used to manage, configure and monitor every aspect of your NVMe drive with a few simple clicks. Customers with advanced administrative skills may prefer the CLI, as it runs from a terminal window, is universal for any distribution, and does not require a graphical OS.

Product feature	
Bus Interface	PCI-Express 4.0 x16
Number of Channel / Port	4x M.2 NVMe port (Dedicated PCIe 4.0 x4 per port)
Port Type	4x M.2 NVMe
Data Transfer Rate	16GT/s
Number of device	4x M.2 NVMe SSD
SSD Form Factor	2280
External Power Support	No
Form Factor	Full-Height
Card Dimensions	7.68"(W) x 4.37"(H) x 0.85"(D)
Card Weight	1.40 lbs.
Warranty	3 Years
Cooling System	PCIe Gen4 Hyper-Cooling Solution
SED	Windows/Linux: Yes
Supported Systems	
OS (Only supports 64-bit OS)	Windows 11, 10 / Windows Server 2022, 2019, 2016 / Microsoft Hyper-V RHEL, Debian, Ubuntu, Fedora, Proxmox, Rocky Linux (Linux kernel 3.10 & later)
System Requirements	PC Platforms: Any PC or Motherboard with an industry standard PCIe x16 physical Slot (Bifurcation is not required)
Secure Boot	Windows: Yes (need UEFI driver corresponding to Secure Boot) Linux: No
NVMe Configuration	
RAID Support	Single, RAID 0, 1, 10
TRIM RAID Support	Single, RAID 0, 1, 10
Storage Mode - NVMe	
Data RAID	Windows, Linux
Boot RAID	Windows: Windows10, Windows Server 2016 and later Linux: RHEL/Rocky/CentOS/Ubuntu/Debian/Fedora
NVMe RAID Management	
Management Suites	WebGUI (Browser-Based management tool )
	CLI (Command Line Interface- scriptable configuration tool)
	UEFI Tool & UEFI HII
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

Performance*	
SEQUENTIAL READ	27, 125MB/s
SEQUENTIAL WRITE	18,771MB/s
Operating Environment	
Work Temp	+5°C ~ + 55°C
Storage Temp	-20°C ~ +80°C
Operating Voltage	PCI-e: 12V, 3.3V
Power	45.24W
MTBF	1.5 million hours
Kit Contents	
RocketAIC 7505H	1x RA7505HW-A08T0-00 (including 4 x Samsung 980 Pro 2TB M.2 NVMe)
	1x QIG

\* Windows OS, ASUS WS WRX80E, CrystalDiskMark 64

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