



## RocketAIC 7505HW

PCIe 4.0 x16 NVMe Expansion Drive Series

**Ultra-Speed PCIe Gen4 x16 Storage Expansion Drives**



### RocketAIC Series PCIe Expansion Storage Drives

If you are looking for a high-speed storage upgrade or expansion solution for a modern Server or Workstation platform, NVMe media is a must-have. The 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 determining if the combination is compatible with your computing platform is no easy matter.

Until now that is; HighPoint has taken the guess work out of NVMe storage technology! If you need the fastest, most reliable turnkey storage in today's marketplace, you need a RocketAIC NVMe expansion drive.

RocketAIC Drives employ industry-proven storage technology, precision engineered hardware architecture, and class-leading media from today's premier NVMe media manufactures to deliver the speed, endurance & reliability customers expect from a professional-grade storage solution.

### Designed for Factory-Built Server and Workstation Platforms

RocketAIC drives have been validated with a wide range of Dell and HP platforms. We have developed a series of Installation Guides to provide customers with clear, concise instructions for each supported workstation and server. Each guide examines the target system's PCIe configuration in detail to evaluate the performance potential, mechanical compatibility and power requirements of each available expansion slot, and provide a list of recommended RocketAIC PCIe Expansion Drives.

### RocketAIC 7505HW

RocketAIC 7505HW series NVMe expansion 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 M.2 SSDs, pre-configured to deliver maximum performance and capacity.

### 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 7505HW allocates a dedicated x16 lanes of upstream bandwidth, and x4 lanes of downstream bandwidth to each device, and is capable of delivering 28GB/s of transfer throughput; the maximum possible from a single-slot PCIe Gen4 expansion drive!

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

RocketAIC 7505HW series NVMe expansion drives are powered by Samsung's proven 980PRO series M.2 SSDs, which deliver client class -leading I/O performance and reliability. RocketAIC 7505HW 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.

### 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

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

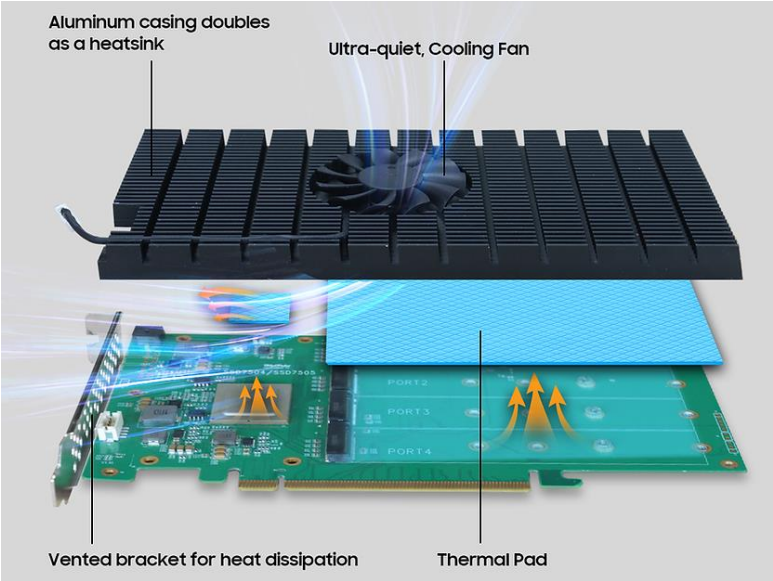
RocketAIC NVMe expansion drives were designed to accommodate a wide-range of high-performance workflows, including AI learning and AV systems, content creation and post-production platforms, and high-speed data ingestion and media capture solutions. RocketAIC drives are shipped pre-configured to maximize 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 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.

### PCIe-Gen4 Hyper-Cooling Solution



The RocketAIC 7505HW is equipped with HighPoint’s advanced PCIe Gen4 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. The full-length anodized aluminum heat sink is equipped with an of ultra-durable, low-decibel cooling fan and high-conductivity thermal padding. This innovative, ultra- efficient cooling system rapidly transfers waste heat away from critical componentry and NVMe media, without introducing unwanted distraction into your work environment.

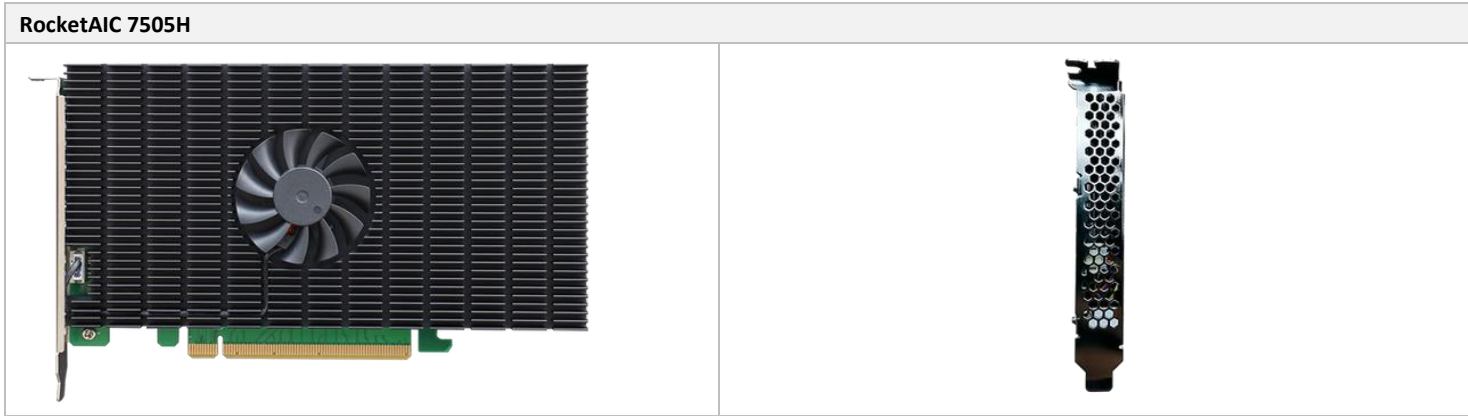
### Quick & Intuitive Management Suite

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	RA7505HW-A04T0-03	RA7505HW-A08T0-00
Capacity	4TB	8TB
Performance*	Sequential Read (MB/s): 26216	Sequential Read (MB/s): 27125
	Sequential Write (MB/s): 19423	Sequential Write (MB/s): 18771
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	16GT/s	
Number of devices	4	
SSD Form Factor	2280	
Card Dimensions	7.68"(W) x 4.37"(H) x 0.85"(D)	
Card Weight	1.40 lbs.	
Warranty	3 Years	3 Years
	TBW(Total SSDs): 2400TB TBW(Single SSD): 600TB	TBW(Total SSDs): 4800TB TBW(Single SSD): 1200TB
Cooling System	PCIe Gen4 Hyper-Cooling Solution	
SED	Yes	
Fan Control	Yes (Windows)	
<b>Supported Systems</b>		
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 and later)	
System Requirements	PC Platforms: Refer to the compatibility list (Bifurcation is not required)	
Secure Boot	Windows: Yes (need UEFI driver corresponding to Secure Boot) Linux: No	
<b>Storage Mode - NVMe</b>		
Data RAID	Windows, Linux (Linux Driver can be installed via internet/network connection)	
Boot RAID	Windows 11, 10 Windows Server 2022, 2019, 2016 Microsoft Hyper-V RHEL, Debian, Ubuntu, Fedora, Proxmox, Rocky Linux (Linux kernel 3.10 & later) (Linux Driver can be installed via internet/network connection)	
<b>NVMe Storage Management</b>		
Management Suites	WebGUI (Browser-Based management tool)	
	CLI (Command Line Interface- scriptable configuration tool)	
	API package	
	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
Flash ROM for Upgradeable UEFI	Yes
Bootable RAID Array	Yes
Multiple RAID Partitions supported	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	74.88W
MTBF	1.5 million hours
Certification / Approval	CE, FCC, RoHS, REACH, WEEE
Kit Contents	
RocketAIC 7505HW-A04T0-03	1x RA7505HW-A04T0-03 (includes 4x Samsung 980 PRO 1TB M.2 NVMe SSDs)
	1x QIG
RocketAIC 7505HW-A08T0-00	1x RA7505HW-A08T0-00 (includes 4x Samsung 980 PRO 2TB M.2 NVMe SSDs)
	1x QIG

\* Windows OS, ASUS WS WRX80E, CrystalDiskMark 64



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