



## RocketAIC 7505HW

PCIe Gen4 x16 NVMe AIC SSD



### Ultra-Speed PCIe Gen4 x16 NVMe AIC SSD

#### RocketAIC Series NVMe AIC SSD

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 AIC SSD.

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 Workstation and Server vendors including Dell, HP, and Supermicro. 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 NVMe AIC SSD.

#### RocketAIC 7505HW

RocketAIC 7505HW series NVMe AIC SSDs 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 990 PRO M.2 SSDs, pre-configured to deliver maximum performance and capacity.

#### Performance-Focused Hardware Architecture

HighPoint RocketAIC NVMe AIC SSDs incorporate Broadcom industry-leading PCIe switch chipsets, to optimize signal integrity, reduce latency and maximize transfer throughput. The highly flexible, performance-focused hardware architecture is unique to our NVMe solutions and ensures bandwidth is never wasted. RocketAIC 7505HW series RAID SSDs allocate a dedicated x16 lanes of upstream bandwidth, and x4 lanes of downstream bandwidth to each device port. This enables each AIC to deliver up to 27,000MB/s of real-world sustained transfer bandwidth.

#### Powered by Samsung's Class-Leading 990 PRO M.2 SSDs

RocketAIC 7505HW series NVMe AIC SSDs are powered by Samsung's proven 990 PRO series M.2 SSDs, which deliver client class-leading I/O performance and reliability. The RocketAIC 7505HW delivers 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 990 PRO SSDs
- Powerful, Low-Decibel NVMe Hyper Cooling Solution
- Up to 16TB of Storage Capacity
- Tuned for Maximum Performance & Capacity
- SafeStorage TCG SED Solution

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

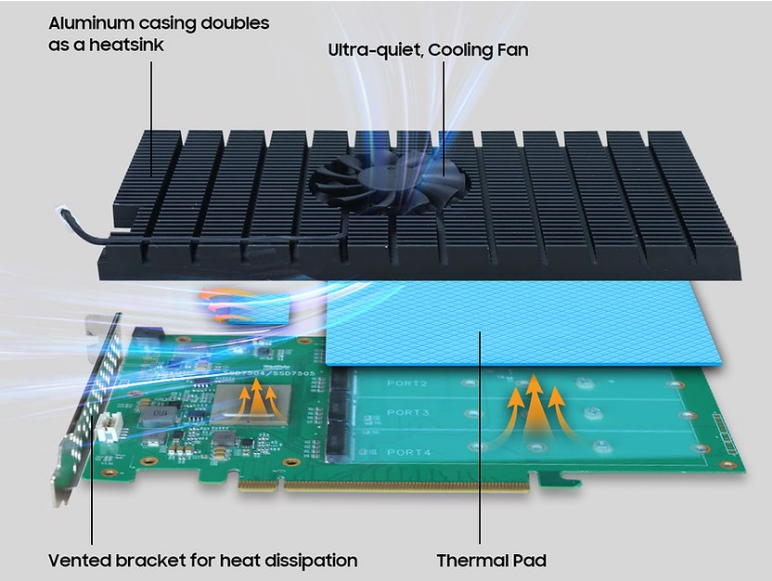
RocketAIC NVMe AIC SSDs were designed to accommodate a wide-range of high-performance workflows, including AI learning and AV systems, content creation and post-production platforms, and high-speed data ingestion and media capture solutions. RocketAIC drives are shipped pre-configured to maximize storage 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 NVMe AIC SSDs 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-A04T0-0D	RA7505HW-A08T0-0E	RA7505HW-A16T0-0F
Bus Interface	PCI-Express 4.0 x16		
Capacity	4TB	8TB	16TB
Data Transfer Rate	16GT/s		
Performance (sequential)	Up to 27,000MB/s		
Number of Channel / Port	4x PCIe 4.0 x4 M.2 Ports		
Number of Devices	4x Samsung 990 PRO M.2 NVMe SSDs		
AIC Form Factor	Full-Height, Full-Length		
AIC Dimensions	7.68"(W) x 4.37"(H) x 0.85"(D)		
AIC Weight	1.40 lbs.		
Warranty	3 Years		
	Endurance (TBW)	Endurance (TBW)	Endurance (TBW)
	Total SSDs: 2400TB	Total SSDs: 4800TB	Total SSDs: 9600TB
	Single SSD: 600TB	Single SSD: 1200TB	Single SSD: 2400TB
<b>Supported Operating Systems (only supports 64-bit operating systems)</b>			
Windows	Windows 11, 10 / Windows Server 2022, 2019, 2016 / Microsoft Hyper-V Only supports 64-bit operating system.		
Linux	RHEL/Debian/Ubuntu/Fedora/Proxmox/Rocky Linux (Linux kernel 3.10 and later)		
Secure Boot(PC platforms)	Windows: Supports Secure Boot Disable & Enable (Please download the corresponding UEFI driver) Linux: Support Secure Boot Disable		
Cooling System	PCIe Gen4 Hyper-Cooling Solution		
<b>NVMe Configuration</b>			
RAID Support	Single, RAID 0, 1, 10		
<b>Storage Mode - NVMe</b>			
Data RAID (Non-Bootable)	Windows, Linux		
Boot RAID	Windows: Windows 10, 11 / Windows Server 2016, 2019, 2022 / Microsoft Hyper-V		
	RHEL, Debian, Ubuntu, Fedora, Proxmox, Rocky Linux (Linux Kernel 3.10 and later)		
<b>Advanced RAID Features</b>			
Flash ROM for Upgradeable UEFI	Yes		
Multiple RAID Partitions supported	Yes		
Online Array Roaming	Yes		
Global Hot Spare Disk support	Yes		
Automatic and configurable RAID Rebuilding Priority	Yes		
Auto resume incomplete rebuilding after powering on or rebooting system	Yes		
Single-RAID or Multi-RAID Arrays per Controller	Yes		
Event Log	Yes		
Configurable Temperature Thresholds	Yes		
S.M.A.R.T. support	Yes		
TCG SED support	Yes		

NVMe RAID Management			
Management Suites	WebGUI (Browser-Based management tool)		
	CLI (Command Line Interface- scriptable configuration tool)		
	API package		
	UEFI Tool & UEFI HII (BIOS interface via Human Interface Infrastructure Support)		
SMTP Email Alert Notification	Yes		
Alarm Buzzer	Yes		
Storage Health Inspector	Yes		
Operating Environment			
Work Temp	+5°C ~ + 55°C		
Storage Temp	-20°C ~ +80°C		
Operating Voltage	PCI-e: 12V, 3.3V		
Power	47.64W	50.44W	50.84W
MTBF	2 million hours		
Kit Contents	<b>RA7505HW-A04T0-0D</b>	<b>RA7505HW-A08T0-0E</b>	<b>RA7505HW-A16T0-0F</b>
RocketAIC 7505HW	1x RA7505HW-A04T0-0D	1x RA7505HW-A08T0-0E	1x RA7505HW-A16T0-0F
	1x Quick Installation Guide	1x Quick Installation Guide	1x Quick Installation Guide

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