HighPoint
Technologies, Inc.

RocketAIC 7505HM
PCIe Gen4 x16 NVMe AIC SSD

Fast, Ultra-Dense PCIe Gen4 x16 NVMe AIC SSD

16TB

RocketAIC 7505HM Series NVMe AIC SSD

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 Mac Pro platform, engineered to deliver a guaranteed 27GB/s of sustained transfer throughput! Designed for performance-hungry applications, RocketAIC "M" series NVMe AIC SSDs 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. Available with up to 16TB of storage capacity, and capable of delivering a guaranteed 27GB/s of transfer speed, RocketAIC 7505HM AICs are built for high-productivity Mac Pro workstation environments and grueling workflows that demand maximum uptime and transfer throughput to ensure your projects stay on schedule without compromising quality.

RocketAIC 7505HM

RocketAIC 7505HM 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 drive includes four of Samsung's blazing-fast 990 PRO M.2 SSDs, pre-configured to deliver maximum performance and capacity. This combination delivers up to 16TB of storage at speeds up to 27GB/s.

Broadcom Inside!

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

The highly flexible, performance-focused hardware architecture is unique to our NVMe solutions and ensures bandwidth is never wasted. The RocketAIC 7505HM 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 990 PRO M.2 SSDs

RocketAIC 7505HM 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.

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.

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.

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

RocketAIC NVMe AIC SSDs are shipped pre-configured to maximize storage and capacity, but can be easily reconfigured using our quick and intuitive management suite.
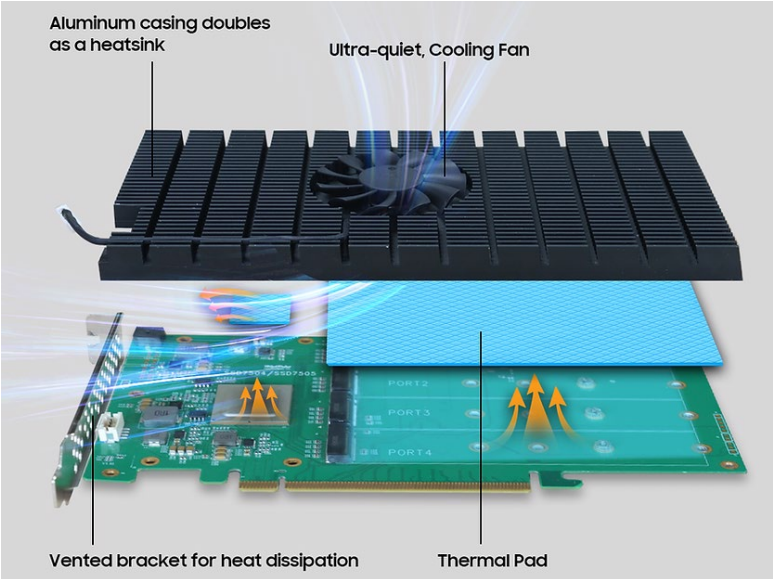
Striping - This mode delivers Maximum Performance and capacity by linking multiple NVMe SSD's together to act as a single storage unit.

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

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 7505HM's 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 990 PRO SSDs always perform optimally, even under maximum load.

The Hyper-Cooling hardware solution was designed to work in conjunction with our SHI (Storage Health Inspector) monitoring service, which can track fan speed and SSD temperature in real time, and our SMTP Email Alert Notification feature, which enables customers to configure one or more Email addresses to receive information about any activity related to the RocketAIC drive, such as maintenance activity, warnings or errors.

Quick & Intuitive Management Suite

Though RocketAIC 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	RA7505HM-A04T0-0D	RA7505HM-A08T0-0E	RA7505HM-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

Supported Operating Systems *(only supports 64-bit operating systems)*			
macOS	Ventura 13.x and later		
Cooling System	PCIe Gen4 Hyper-Cooling Solution		

NVMe Configuration			
RAID Support	Single, RAID 0, 1, 10		

Storage Mode - NVMe			
Data RAID (Non-Bootable)	Yes		
Boot RAID	No		

Advanced RAID Features			
Flash ROM for Upgradeable UEFI	No		
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	No		

NVMe RAID Management			
Management Suites	WebGUI (Browser-Based management tool)		
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	**RA7505HM-A04T0-0D**	**RA7505HM-A08T0-0E**	**RA7505HM-A16T0-0F**
RocketAIC 7505HM	1x RA7505HM-A04T0-0D	1x RA7505HM-A08T0-0E	1x RA7505HM-A16T0-0F
	1x Quick Installation Guide	1x Quick Installation Guide	1x Quick Installation Guide

RocketAIC 7505HM

HighPoint Headquarters
Phone: 1-408-942-5800
Fax: 1-408-942-5801
E-mail: sales@highpoint-tech.com
Website: www.highpoint-tech.com
Address: 41650 Christy St. Fremont, CA, 94538

© 2024 HighPoint Technologies, Inc.