



## RocketAIC 7105HW

PCIe 3.0 x16 NVMe Expansion Drive Series

4TB

### Bootable PCIe Gen3 x16 Storage Expansion Drives

#### RocketAIC Series PCIe Expansion Storage Drives

RocketAIC bootable series of expansion drives are simple and secure system disk and storage upgrade solutions for industry leading Dell and HP workstation and server platforms. RocketAIC drives are shipped pre-configured, and ready to use right out of the box. Installation is simple affair, regardless if you are installing a clean OS or adding storage to an existing platform; simply insert the compact PCIe add-in-card into a free slot, power up the system and install the device driver when prompted. The host system will immediately recognize the RocketAIC drive as a single, physical disk, which can be partitioned and formatted as desired, just like any other ordinary drive.

#### RocketAIC 7105HW

The compact expansion drive is available with up to 4TB of preconfigured storage, and can be easily integrated into Dell and HP server and workstations with a free PCIe 3.0/4.0/5.0 x16 slot. RocketAIC 7105HW drives leverage four Samsung 980 series NVMe SSDs to maximize random I/O performance, minimize latency and deliver up to 14GB/s of transfer bandwidth; the maximum throughput possible from a single PCIe Gen3 port!

#### Protects Your System Disk with Data Mirroring Technology

While RocketAIC drives are tuned for maximum performance and storage density by default, they can be easily reconfigured to act as data mirrors. Mirroring technology, AKA RAID 1, remains one of the most effective ways to secure a bootable system disk against the possibility of device failure.

A mirrored RocketAIC drive creates an automated backup of the target system disk. If the original should fail, the mirrored backup will immediately, and seamlessly, take the reins. This enables the host system to remain online, and continue to operate normally. The redundancy delivered by a mirrored drive is essential for many server-based applications, especially Virtual Machine and hosting solutions, which must remain available for client access on a 24/7/365 basis.

#### Ideal for Virtualization Platforms

Bootable RocketAIC drives are especially well-suited for Virtualization platforms and workflows that rely on VDI (Virtual Desktop Infrastructure), as they deliver exceptional performance and are available in capacities that are capable of simultaneously hosting the virtualization OS and multiple virtual machines.

The RocketAIC 7105HW can host up to four virtual drives, each of which can be configured to host a separate bootable OS.

#### 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.

#### Feature Highlights

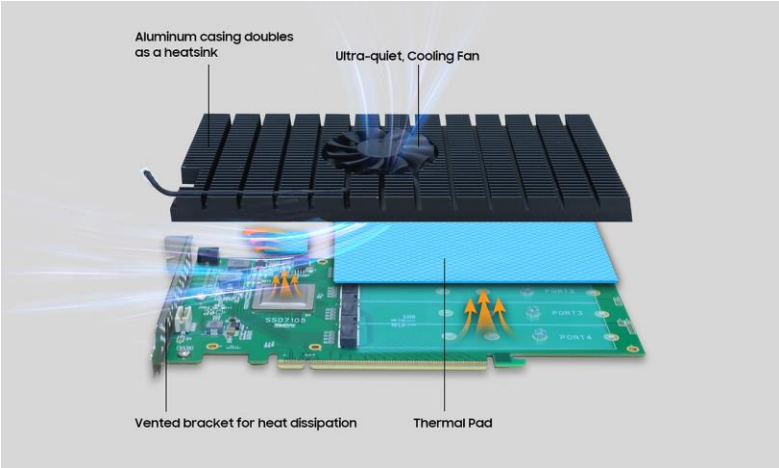
- Dedicated PCIe Gen3 x16 Host Bandwidth delivers up to 14,000MB/s
- Ideal for Virtualization Platforms
- Advanced NVMe Cooling Solution
- Up to 4TB of Storage Capacity
- Tuned for Maximum Performance & Capacity

**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.

### Advanced NVMe Cooling Solution



The RocketAIC 7105HW is equipped with HighPoint’s advanced 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. Each AIC features a full-length anodized aluminum heat sink equipped with a robust, low-decibel cooling fan and high-conductivity thermal padding. This innovative, ultra- efficient cooling system rapidly transfers waste heat away from critical componentry, without compromising sensitive into working environments.

### 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		RA7105HW-A04T0-03
Capacity	4TB	
Performance*	Sequential Read (MB/s): 14290	
	Sequential Write (MB/s): 12275	
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 4.37"(H) x 0.95"(D)	
Card Weight	1.40 lbs.	
Warranty	3 Years	
	TBW(Total SSDs): 2400TB	
	TBW(Single SSD): 600TB	
SED	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 and later)	
System Requirements	PC Platforms: PC Systems or Motherboard with an industry standard PCIe x16 physical Slot (Bifurcation is not required), Refer to the compatibility list.	
Secure Boot	Windows: Yes (need UEFI driver corresponding to Secure Boot) Linux: No	
Storage Mode - NVMe		
Data RAID	Windows, Linux (Linux Driver can be installed via internet/network connection)	
Boot RAID	Windows: Windows10, Windows Server 2016 and later Linux: RHEL/Rocky/CentOS/Ubuntu/Debian/Fedora	
NVMe Storage Management		
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
Global Hot Spare Disk support	Yes
Flash ROM for Upgradeable UEFI	No
Bootable RAID Array	No
Operating Environment	
Work Temp	+5°C ~ + 55°C
Storage Temp	-20°C ~ +80°C
Operating Voltage	PCI-e: 12V, 3.3V
Power	43.92W
MTBF	1.5 million hours
Certification / Approval	CE, FCC, RoHS, REACH, WEEE
Kit Contents	
RocketAIC 7105HW-A04T0-03	1x RA7105HW-A04T0-03 (includes 4 x Samsung 980 Pro 1TB MZ-V8P1T0B M.2 NVMe)
	1x QIG

\* Windows OS, ASUS Maximus Z690 Hero, CrystalDiskMark 64

