*HighPoint*
*Technologies, Inc.*

# RocketAIC 6202AW
## PCIe 3.0 x8 NVMe Expansion Drive Series

### *Bootable PCIe Gen3 x8 Storage Expansion Drives*

**4**TB

### 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 6202AW

The RocketAIC 6202AW is HighPoint's most compact, easily integrated bootable PCIe expansion storage drive for PC platforms. Equipped with a pair of Samsung 980 PRO series NVMe SSDs, RocketAIC 6202AW drives provide up to 4TB of bootable, pre-configured storage. The drive is a snap to install; the Half-Height/Half-Length form factor is compliant with a wide range of PC riser cards, and can be easily integrated into industry leading Dell and HP servers and workstations.

Integration could not be simpler; Just plug in the card, power on the system, and you are good to go! VMware ESXi, Microsoft Hyper-V, Proxmox, and other leading Virtualization Platforms include native hardware support for RocketAIC 6200A series drives- no device driver or application is required!

The drive will be automatically recognized as an ordinary physical disk when installing your chosen platform. The same is true for all modern operating systems; Windows 11 and Server 2022, and all major Linux distributions such as RHEL, Ubuntu, Rocky Linux will automatically recognize the RocketAIC 6200A as an available disk.

### 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

RocketAIC 6200A series drives are ideal for Virtualization platforms and workflows that rely on VDI (Virtual Desktop Infrastructure), as they deliver exceptional performance, are capable of simultaneously hosting the virtualization OS and multiple virtual machines, and are natively supported by major operating system platforms including ESXi, Windows and Hyper-V, Linux Distributions, Proxmox.

## *Feature Highlights*

- Dedicated PCIe Gen3 x8 Host Bandwidth delivers up to 7,000MB/s
- Ideal for Virtualization Platforms
- Advanced NVMe Cooling Solution
- Up to 4TB of Storage Capacity
- Tuned for Maximum Performance & Capacity

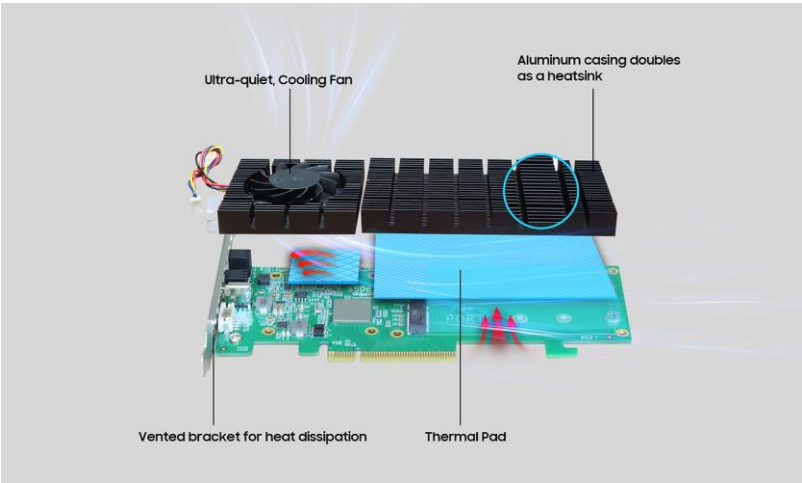### Your Choice: Maximum Transfer Speed & Capacity, Maximum Data Security, or the Best of Worlds!

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 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 6202AW 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 | RA6202AW-A02T0-03 | RA6202AW-A04T0-00 |
|---|---|---|
| Capacity | 2TB | 4TB |
| Performance | Sequential Read (MB/s): 7031 | Sequential Read (MB/s): 7081 |
| | Sequential Write (MB/s): 6078 | Sequential Write (MB/s): 6050 |
| RAID Support | RAID 0, 1, Single-Disk | |
| TRIM RAID Support | RAID 0, 1, Single-Disk | |
| Number of Channel / Port | 2 | |
| Port Type | M.2 | |
| Data Transfer Rate | 8GT/s | |
| Number of devices | 2 | |
| SSD Form Factor | 2280 | |
| Card Dimensions | 6.61" (W) x 2.71" (H) x 0.87" (D) | |
| Card Weight | 0.81lbs | |
| Warranty | 3 Years | |
| | TBW(Total SSDs): 1200TB<br>TBW(Single SSD): 600TB | TBW(Total SSDs): 2400TB<br>TBW(Single SSD): 1200TB |
| **Supported Systems** | | |
| OS<br>(Only supports 64-bit OS) | Windows 11, 10<br>Windows Server 2022, 2019, 2016<br>Microsoft Hyper-V | |
| | Linux (Linux kernel 3.10 and later) | |
| | VMware, Proxmox, Xenserver | |
| System Requirements | PC Platforms: PC Systems or Motherboard with an industry standard PCIe x8 or x16 physical Slot (Bifurcation is not required), Refer to the compatibility list. | |
| Secure Boot | No | |
| **NVMe Storage 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 | |
| Automatic and configurable RAID Rebuilding Priority | Yes | |
| Single-RAID or Multi-RAID Arrays per Controller | Yes | |

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| Advanced RAID features | | |
|---|---|---|
| Bootable RAID Array | Yes | |
| Online Array Roaming | Yes | |
| RAID Quick Initialization for fast array setup | Yes | |
| **Operating Environment** | | |
| Work Temp | +5°C ~ + 55°C | |
| Storage Temp | -20°C ~ +80°C | |
| Operating Voltage | PCI-e: 12V, 3.3V | |
| Power | 21.76W | 18.36W |
| MTBF | 1.5 million hours | |
| Certification / Approval | CE, FCC, RoHS, REACH, WEEE | |
| **Kit Contents** | | |
| RocketAIC 6202AW-A02T0-03 | 1x RA6202AW-A02T0-03 (includes 2 x Samsung 980 Pro 1TB MZ-V8P1T0B M.2 NVMe) | |
| | 1x QIG | |
| | | |
| RocketAIC 6202AW-A04T0-00 | 1x RA6202AW-A04T0-00 (includes 2 x Samsung 980 Pro 2TB MZ-V8P2T0B M.2 NVMe) | |
| | 1x QIG | |

| RocketAIC 6202A |
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