



## RocketRAID 3840A

PCIe 3.0 x16 NVMe RAID Host Bus Adapter

### ***RocketRAID 3800 Host Adapter Series Delivers Mind Blowing NVMe RAID Performance!***

RocketRAID 3800 series RAID host bus adapters unlock the performance potential of NVMe SSD's, and boost RAID performance to stratospheric levels; a single controller is capable of delivering up to 15,760 MB/s of transfer performance!

The RocketRAID 3800 series are revolutionary NVMe RAID host adapters that intelligently utilize the powerful resources of modern PC platforms. Unhindered by SAS and SATA interfaces, the integrated NVMe technology allows each RAID adapter to take full advantage of PCIe 3.0's superior transfer bandwidth and deliver a level of performance never before experienced by mainstream PC environments.

#### **Unbeatable NVMe Performance and Unprecedented Storage Scalability at an Affordable price point.**

The revolutionary RocketRAID 3800 series adapters allows any modern PC platform with sufficient PCIe bandwidth to harness the power of up to eight individual RocketRAID 3840A adapters, which can work in unison to deliver an astounding 8x 15,760 MB/s of transfer bandwidth!

RocketRAID 3800 series adapters seamlessly merge our industry proven RAID technology with the extraordinary performance capabilities of NVMe technology – customers familiar with the basics of RAID will feel immediately at home with any 3800 series RAID controller.

#### **No Restraints! RocketRAID 3840A RAID Adapters can dramatically enhance the performance envelope of any modern a PCIe 3.0 capable PC platform.**

The RocketRAID 3800 series are Microsoft Windows compatible NVMe RAID host bus adapters, and offer superior compatibility with support for off-the-shelf 2.5" NVMe SSD's and PC Platforms. Future releases will expand our OS Support Portfolio for other leading platforms. RocketRAID 3800 adapters were designed from the ground up to ensure compatibility with a wide array of modern Windows-based computing platforms. The affordable price point combined with and broad system support allows value-add integrators, hardcore gamers, enthusiasts and prosumers alike take advantage of technology once exclusive to enterprise or high-price tag environments.

#### **Affordable NVMe RAID Storage for Prosumer Applications**

For over two decades HighPoint has brought cutting edge technology to value-add integrators, power user and prosumer customers. We take pride in our ability to consistently deliver cutting edge storage performance at an affordable price point. Our NVMe RAID product lines represent our latest technology milestone – RocketRAID 3800 Series PCIe 3.0 NVMe RAID Host Adapters are the next generation of personalized storage solutions, and allow mainstream PC platforms to fully harness the extreme performance potential of NVMe technology.

#### **Key Benefits**

- Boost Performance to Stratospheric levels!
- Streamline Storage Scalability and Flexibility
- RAID 0, 1, 5 & JBOD
- Supports Windows OS Platforms (Future updates will include other OS support)
- OEM Customers: Customization Service is available

#### **Suggested Applications**

- Solution Integration
- ODM Projects
- Hardcore Gamer, Enthusiast and Prosumer applications

#### **Feature Highlights**

- 4x PCIe 3.0 x4 Lanes
- Directly supports up to 4x U.2 NVMe devices
- 15, 760 MB/s transfer performance
- RocketRAID Data Recovery Solution increases chances of data retrieval from a failed drive.
- Maximizes RAID Array Accessibility
- Fast Array set up enables immediate Availability
- Robust RAID Monitoring and Management solution ready



### Customized NVMe RAID Products & Services for Integration Customers

Our RocketRAID 3800 adapter series employ homegrown NVMe RAID technology, developed by our experienced in-house engineering teams. This allows us to offer a wide range of Customized Solutions and ODM services for Integration Customers. We can tailor RocketRAID 3800 host bus adapters to meet the requirements of project requests, and are ready to assist Solution Providers with unique product branding.

Feature Specifications	
Bus Interface	16-lane, PCI Express 3.0 Compliant
Number of Channel / Port	4x PCIe 3.0 x4 Lane & SFF-8643
Data Transfer Rates:	Up to 32GT/s per port
Port Type	Four SFF-8643 mini-SAS HD
Number of Devices	4x U.2 NVMe devices
Form Factor	Low Profile
Dimensions	152mm*68mm
Weight	0.26 lbs
RAID Mode	0, 1, 5, 10 and JBOD / Non-RAID Mode
Operating System	Windows Server 2008 and Window 7 and later Linux (TBA)
RocketSpace RAID management	
Storage Health Inspector	Yes
NVMe SMART status and FW upgrade	Yes
Redundant RAID Configurations	Yes
Multiple RAID Partitions supported	Yes
Pass-through support	Yes
Storage Configurations Support Details	Direct Attached
Online Array Roaming	Yes
Online RAID Level Migration (ORLM)	Yes
Online Capacity Expansion (OCE)	Yes
RAID Quick Initialization for fast array setup	Yes
Drive hot-plug support	Yes - Require device firmware support
Global Hot Spare Disk support	Yes
Automatic and configurable RAID Rebuilding Priority	Yes
Auto resume incomplete rebuilding after power on or reboot system	Yes
Disk Format compatible: 512, 512e, 4Kn	Yes
Larger than 2 TB Drive and RAID Array support	Yes
Disk media scan and repair	Yes
Device Error Recovery support	Yes
Automatic remap and fix drive bad block for RAID array	RAID 1, 5, 10

Monitoring and Management Suite	
RAID Management Suites	Browser-Based management tool CLI(Command Line Interface- scriptable configuration tool) API package
Enclosure Management Interface:	Onboard Drive LEDs; FAN Header
SMTP Email Alert Notification	Yes
Alarm Buzzer	Yes
<b>Operating Environment</b>	
Work Temp:	+5°C ~+ 55°C
Storage Temp:	-20°C ~ +80°C
Relative Humidity:	5% ~ 60% non condensing
Operating Voltage	PCI-e: 12V, 3.3V
Power	Typical: 8W
MTBF (Mean Time Before Failure)	920,585 Hours
Certification / Approval	FCC, CE, ROHS & REACH

NVMe PCIe 3.0 RAID Host Bus Adapter	RocketRAID 3840A
Product Image	
Product Dimensions	5.97" x 2.68" x 0.06"
Retail Box Dimensions	13.38" L x 7.68" H x
Retail Box Weight	1.09 lbs
UPC Code	643653374014
Kit Contents	1x controller card 1x Low Profile Bracket 1x Quick Installation Guide
Product Dimensions	5.97" x 2.68" x 0.06"

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