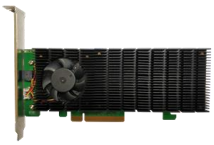
HighPoint Technologies, Inc.



SSD7202 – Low-Profile, Bootable, 2x dedicated M.2 Ports to PCIe 3.0 x8 NVMe RAID Controller

NVMe Solution

Rapid Boot Secure Boot

Industry's 1st Ultra-Compact, Low-Profile, Bootable NVMe RAID Solution

The Industry's 1st Low-Profile, Bootable NVMe RAID Controller for Windows & Linux

The SSD7202 is the industry's first is ultra-compact, low-profile, bootable NVMe RAID solution for Windows and Linux platforms, and can deliver up to 7,000 MB/s of transfer performance from a pair of off-the-shelf M.2 SSD's.

Each SSD7202 controller benefits from our industry-leading NVMe RAID architecture, and can support striping, mirroring or single disk configurations for up to 2 M.2 NVMe SSD's.

3rd Generation NVMe Architecture

Our third-generation NVMe architecture utilizes our Smart-Switching PCIe 3.0 x8 host interface to ensure broad compatibility with a wide range of hardware platforms without compromising performance; the dedicated x8 bandwidth enables the SSD7202 to maximize transfer speeds for up to two M.2 SSD's.

The SSD7202 also features a unique, two-stage cooling solution; a card-length heat sink with integrated low-noise fan ensures the NVME SSD's and critical chipset components remain cool even under load.

Robust Linux Support

A dedicated team of engineers proactively monitors and updates support for all major Linux distributions to ensure the SSD7202 is compatible with the latest releases of CentOS, Ubuntu and Debian.

Our innovative Auto-Compile feature was designed to streamline Linux installation and upgrade procedures, and eliminates the need for user intervention. Auto Compile is now embedded directly into our open-source driver packages.

Comprehensive Booting Capability

Rapid-Boot: RAID 0 will both minimize boot-time and maximize transfer performance.

Secure-Boot: RAID 1, also known as mirroring, is ideal for applications that require additional layers of data security for their boot volumes.

Unique, 2-Stage Cooling Solution

The SSD7202 is well suited for applications that require distraction-free working environments. The PCIe 3.0 x8 host interface enables the controller to operate at lower temperatures than its x16 counterparts; the unique design sports a single all-aluminum heats sink with an integrated low-noise fan, which easily dissipates the heat generated by a pair of M.2 drives, even under sustained load, while eliminating distraction and the risks of compromising your production requirements.

Ideal for Compact Desktops & Workstations

The SSD7202 is ideal for PC's that require NVMe boot performance or an ultra-compact storage solution. The low-profile SSD7202 can directly host up to 8TB of NVMe Storage in a device smaller than your average video card, and can be easily installed into any industry standard PCIe 3.0 x8 or x16 slot.

Comprehensive RAID Management

Your Choice – Graphical or Text-only interfaces

When it comes to maintaining critical storage configurations, each customer has specific needs and preferences. Both management interfaces share universal layouts across all major operating systems, and can be administered locally or remotely via an internet connection.

Key Benefits

- New, Low-Profile Bootable NVMe Solution for Linux & Windows
- Ideal for compact, low-profile 1 &2U servers, or workstations
- Flexible solution: compatible with PCIe x8 and x16 slots
- Up to 2 off-the-shelf M.2 MLC, TLC & QLC NVMe SSD's
- RAID 0, 1, single disk
- Dedicated PCIe 3.0 x8 bus bandwidth
- Dedicated PCIe 3.0 x4 bandwidth for each NVMe M.2 SSD

Suggested Applications

- Compact Workstations & PC's
- 1U/2U Servers

The Web RAID Management Interface (**WebGUI**) is a simple and intuitive web-based management tool and is ideal for customers who are new to RAID technology. The Wizard-like Quick Configuration menu allows even the most novice user to get everything up and running with a few simple clicks. Experienced users can fine tune configurations for specific applications using the Advanced Options menu.

The **CLI** (command line interface) is a powerful, text-only management interface designed for advanced users and professional administrators. The universal command lines work with any platform, and are shared across our entire product line. Comprehensive user guides are available for the CLI, and are included with the most recent product updates available from the SSD7202 Software Updates webpage.

HighPoint SSD7200 Series NVMe RAID Controllers

Feature Specifications	
Bus Interface	PCI-Express 3.0 x8 (upwards compatible with PCIe 4.0)
Number of Channel / Port	2x M.2 NVMe port (Dedicated PCIe 3.0 x4 per port)
Data Transfer Rate	8GT per lane / 8Gbps per lane
Number of devices	4x M.2 NVMe SSD
SSD Form Factor	2242/2260/2280
Controller Form Factor	Low-Profile
Dimensions	6.29' (L) x 4.76" (H) x 0.85" (D)
Operating System Support	Windows 10, Windows Server 2016 or later, Linux Kernel 3.3 or later
	Microsoft Hyper-V & Xen Server 7.6 and later, Proxmox 6.1 and later.
Cooling	Full-Length heat sink with integrated low-noise cooling fan
NVMe Configuration	
RAID Support	Single disk, RAID 0, RAID 1
TRIM RAID Support	Single disk, RAID 0, RAID 1
Storage Mode - NVMe	UEFI Bootable & Data RAID
NVMe RAID Management	
Management Suites	Browser-Based management tool
	CLI (Command Line Interface- scriptable configuration tool)
	API package
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	Yes
Single-RAID or Multi-RAID Arrays per Controller	Yes
Cross-Sync RAID Solution Across Controllers	No
Operating Environment	
Work Temp	+5°C ~ + 55°C
Storage Temp	-20°C ~ +80°C
Operating Voltage	PCI-e: 12V, 3.3V
Power	Typical: 8W
MTBF (Mean Time Before Failure)	920,585 Hours
Compliance Certification	CE, FCC, RoHS, REACH, WEEE
Kit Contents	1x SSD7202 RAID Controller
	1x Quick Installation Guide
	Low-Profile bracket

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

HighPoint China
Phone + 86(10)-53519056 (Ext. 8003)
Fax + 86-10-6897-5074
E-mail sales@highpoint-tech.com
Website www.highpoint-tech.cn
Address ROOM 512, Building 1, No 4 JinHang Xi Rd, ShunYi District Beijing, 101318, China