HighPoint Unveils the SSD7140: Double Capacity & Maximize Performance for PCIe 3.0 M.2 RAID Storage

October 2020, Milpitas, CA – HighPoint unveils its latest HPC (high Port Count) NVMe RAID solution – the SSD7140.
HighPoint's SSD7140 high port count (HPC) NVMe RAID controller is ideal for professional applications that require a small-footprint, mass-storage M.2 NVMe solution that can take full advantage of PCIe 3.0 x16 transfer bandwidth, and deliver over 14,000MB/s of transfer performance.
The SSD7140 doubles M.2 port count from 4 to eight, and can support up to 32TB of storage capacity. Our performance-focused NVMe RAID architecture enables the SSD7140 to allocate up to x4 lanes for each device channel – ideal for professional media workstation and server environments designed to support a wide range of editing, rendering, capture, and streaming applications.

Truly Platform Independent NVMe RAID Solution

HighPoint high port count series NVMe RAID controllers are truly independent NVMe storage solutions. Unlike most NVMe devices in today's marketplace, which are tied to a specific hardware platform or brand of SSD or motherboard, SSD7000 series controllers do not require a hardware environment with Bifurcation support, or any specialized software released by SSD manufacturers; any AMD or Intel motherboard with a dedicated PCIe 3.0 x16 slot can now support up to 8 M.2 NVMe SSDs, and experience sustained transfer performance in excess of 14GB/s via a single compact PCIe device.

Comprehensive 8-Port M.2 NVMe RAID & Storage Solution

The eight independent M.2 channels can support RAID, non-RAID, and mixed NVMe storage configurations. No other M.2 NVMe controller in today's marketplace can match the SSD7140's storage capability, transfer performance, or flexibility.

RAID 1/0 (Security & Speed) - RAID 1/0 (also known as RAID 10) requires a minimum of 4 NVMe SSD's – it will mirror the data of one stripe array to a second, hidden stripe array for security.

RAID 0 (Speed) – this mode delivers Maximum Performance, and requires a minimum of 2 NVMe SSD's.

RAID 1 (Security) - This mode creates a hidden duplicate of the target SSD, and requires 2 NVMe SSD's to configure.

Ultra-Efficient, Multi-Stage Cooling Solution

The SSD7140 employs our new ultra-efficient, multi-stage cooling solution that combines a high-conductivity thermal pad with an anodized aluminum heatsink equipped with dual built-in, low noise fans. This design ensures the M.2 SSDs, NVMe chipset and RAID componentry remain cool, even under heavy load, while minimizing the risk of distraction in the work environment.

Comprehensive NVMe RAID Management

When it comes to maintaining critical storage configurations, each customer has specific needs and preferences.

The Web RAID Management Interface (WebGUI) is a simple, intuitive web-based management tool and is ideal for customers who are new to RAID technology.

The CLI (command line interface) is a powerful, text-only management interface designed for advanced users and professional administrators. Comprehensive user guides are available for both interfaces are available from each controller's Software Updates webpage.

Both interfaces were designed to streamline NVMe Storage Management. Customers can easily track TBW (Terabytes Written) and the temperature of each individual NVMe SSD, ensure the SSD7000 controller is using the fastest available PCIe slot, configure an event log with email notification, and monitor the status of critical RAID configurations in person or remotely via an internet connection.

Pricing and Availability

The SSD7140 will be available mid-October 2020 from our North American Channel and Retail partners.

SSD7140 8x M.2 PCIe 3.0 x16 NVMe RAID Controller

MSRP: USD $699.00