

HighPoint Launches the Industry's Most Cost-Performance Efficient 12G SAS HBAs for HCI/SDS Applications

December 2022, Fremont, CA – HighPoint Technologies, Inc. has launched a new line of high-density 12G SAS connectivity HBAs designed for Software Defined Storage (SDS) and HCI Applications.

HCI (Hyperconverged Infrastructure) provides a cost-effective alternative to conventional Data Center solutions. HCI can dramatically lower TCO by reducing the need for enterprise computing and storage appliance hardware, via virtualization technology. HCI enables administrators to link and collectively manage multiple off-the-shelf servers and their hosted storage through an SDS-focused hypervisor. This storage, along with computing resources of each server, are pooled and dynamically allocated as needed.

HighPoint's Rocket 700 series 12G SAS Connectivity HBAs are ideal storage solutions for Windows, Linux and VMware based HCI applications. The compact PCIe devices can be easily installed into industry standard x86 and ARM server platforms and can directly host up to 48 SAS or SATA drives, or up to 128 via SAS Expansion backplanes. Rocket 700A HBAs utilize robust, self-locking SFF-8643 ports, which support a wide range of cabling options. The unique controller board architecture maximizes port-density & per-port transfer bandwidth by leveraging the robust PCIe 3.0 x16 host interface and intelligent switching technology. This enables Rocket 700 series HBA's to deliver up to 14,000MB/s of transfer bandwidth.

SDS Ready: Easily integrated into HCI Applications

Rocket 700 series HBAs are fully compatible with Software-Defined Storage Suites designed for HCI applications, such as CEPH and Microsoft S2D. Hard disks hosted by Rocket 700 series HBAs will be recognized as independent, stand-alone drives, which can be formatted, partitioned and configured into software RAID arrays or JBOD/span configurations using the operating system's standard storage management interfaces.

Cost-Effective High-Density SAS Expansion Solution

Why invest in Tri-Mode technology if you only need HDD support?

HighPoint Rocket 700 series 12G SAS connectivity solutions represent the industry's most affordable SAS/SATA mass-storage solution. A single Rocket 720 HBA can support up to 128 SAS/SATA hard drives for less than half the cost of a Tri-Mode controller! The compact half-height PCIe 3.0 x8 HBAs can be easily integrated into any industry standard server with PCIe 3.0 or 4.0 host connectivity, and are available with 8 or 16 dedicated device channels.

The industry's first DAS, single HBA Petabyte solutions!

HighPoint's Rocket 700 series product line represent the industry's densest single-card HBA solutions. As successors to the industry's original single-card mass storage solution, Rocket 750 6Gb/s SATA HBA, Rocket 700 series High-Port-Count (HPC) 12G HBAs are available with up to 48 independent device channels, and are capable of supporting any industry standard 2.5" or 3.5" SAS or SATA hard disk drive. The full-length, single width HBAs can be easily integrated into any full-size tower or industry standard rackmount server with an available PCIe 3.0 or 4.0 x16 slot.

Comprehensive Management Suite with Optional Boot Capability

Customers that require an all-in-one storage solution with mirrored data protection and boot capability can configure and manage one or more RAID 1 or 0 arrays using HighPoint's comprehensive storage monitoring and management suite, which is comprised of an intuitive web-browser based GUI and an advanced command Line interface (CLI). Rocket 700 series controllers are also available with a legacy BIOS interface, UEFI RAID creation tool, and UEFI HII BIOS tool, which can be injected into the platform's standard BIOS menu if the motherboard supports the IPMI (Intelligent Platform Management Interface) specification.

HighPoint SHI (Storage Health Inspector): The SHI monitoring interface allows administrators to instantly check the operating status of storage devices in real-time. SHI utilizes SMART technology to log and report the characteristics of each physical drive, such as temperature, voltage, and disk related warnings or errors.

1-Click Self-Diagnostic Solution: HighPoint's Web-based graphical management suite (WebGUI) now includes a host of automated diagnostic tools designed to streamline troubleshooting and Technical Support inquiries, even for first-time users.

1-Click streamlines the support process by minimizing back-and-forth communication between the customer and FAE Team Members (Field Application Engineering).

Administrators no longer have to manually assemble a collection of screenshots, logs and status reports. 1-click enables the interface to gather all necessary hardware, software and storage configuration data and compile it into a single file, which can be transmitted directly to our FAE Team.

OOB Management via HII

Rocket 700 series HBAs can accommodate OOB (out-of-band) remote management via HII (human interface infrastructure) capability. This feature is designed for use with motherboards and computing platforms that support third party HII devices.

Comprehensive Support for all Major OS Platforms

Rocket 700 series HBAs are compatible with all current Windows operating system, Linux distributions that utilize kernel v3.10 and later, and VMware ESXi. Device drivers are routinely updated to keep in sync with official OS updates.

Linux Open-Source Package with Auto-Compilation: The administrator need only install the root package; the driver will handle all future updates automatically, such as checking/monitoring the status of kernel releases, preparing the system environment, recompiling a new driver, and installation.

Pricing and Availability

Rocket 700 series 12G SAS Connectivity HBAs are available direct from HighPoint and our North American retail and distribution partners.

Rocket 710 (R710) 8x 12G SAS Ports / PCIe 3.0 x8 – MSRP USD\$199.00

Rocket 720 (R720) 16x 12G SAS Ports / PCIe 3.0 x8 – MSRP USD\$359.99

Rocket 730A (R730A) 24x 12G SAS Ports / PCIe 3.0 x16 – MSRP [Available upon request](#)

Rocket 740A (R740A) 32x 12G SAS Ports / PCIe 3.0 x16 – MSRP [Available upon request](#)

Rocket 750A (R750A) 40x 12G SAS Ports / PCIe 3.0 x16 – MSRP [Available upon request](#)

Rocket 760A (R760A) 48x 12G SAS Ports / PCIe 3.0 x16 – MSRP [Available upon request](#)