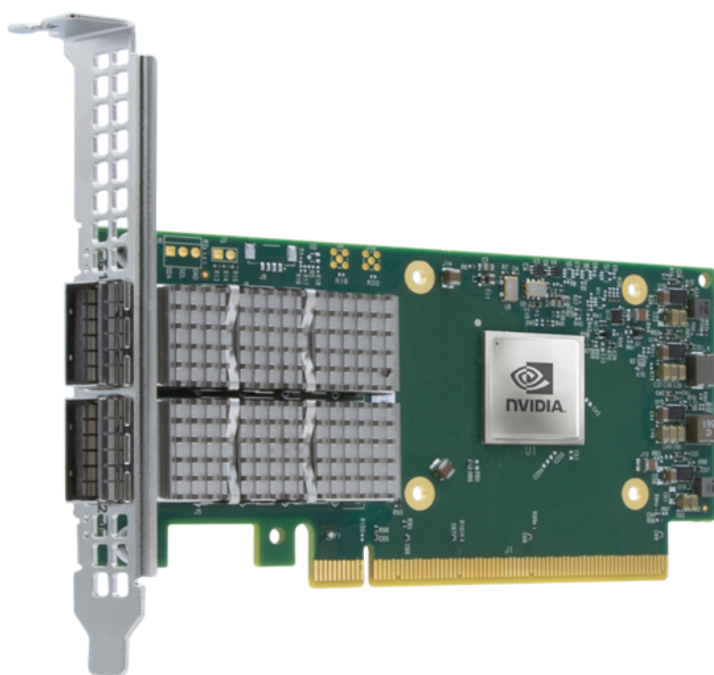


NVIDIA Ethernet Adapters for HPE

NVIDIA Ethernet 100Gb 2-port NVMe-oF Offload Adapter for HPE (R8M41A)



What's new

- NVIDIA Ethernet 10/25 Gb 2-port SFP28 NVMe-oF Crypto Adapter for HPE with built in encryption and Hardware Root of Trust.
- Insuring that your proprietary data encrypted with this adapter remains only yours across your entire network.
- Security and performance at up to 25 Gb/s Ethernet connectivity.

Overview

Are you looking to modernize your data center with Non-volatile Memory Express (NVMe) paradigms, while insuring the integrity of your data is safe from malicious agents?

NVIDIA Ethernet Adapters for HPE are advanced cloud network interface cards with NVMe offload capabilities and cryptographic functionalities to accelerate and secure mission-critical data center applications such as security, virtualization, SDN/NFV, Big Data, machine learning, and NVMe-based storage. We provide two adapter options. Either two ports of 100GbE connectivity or two ports of 25GbE connectivity paired with proven cryptographic capabilities that accelerate and secure cloud and data center workloads.

Storage acceleration such as NVMe-oF TCP are built into the adapters,

enabling seamless upgrade paths from existing storage paradigms to NVMe and persistent memory semantics.

It also provides enhanced security for your data in an unsecure world.

Features

Ethernet Storage Area Network

NVIDIA Ethernet Adapters for HPE come in two options from NVidia. R8M41A supports two ports of 100 Gb Ethernet connectivity with 16 lanes of PCIe Gen4. S2A69A supports two ports of 10/25 Gb Ethernet connectivity with 8 lanes of PCIe Gen 4. Both are compatible with PCIe Gen3.

It delivers several innovations including programmable congestion control and NVMe over TCP support.

Storage Acceleration

NVIDIA Ethernet Adapters for HPE support storage acceleration and like NVMe over TCP workloads, enabling seamless upgrade paths from existing storage paradigms to NVMe and persistent memory semantics.

It supports T10 DIF signature handover operation at wire speed for ingress and egress traffic to reduce congestion.

The adapters provide increased flexibility with support for multiple storage protocols: Network File System (NFS) RDMA, SMB Direct, and NVMe-oF.

Secure Network Adapters, Data Center Security

NVIDIA Ethernet Adapters for HPE bring security to every end-point with its purpose-built inline acceleration engines that offload IPsec and TLS data-in-motion and XTS-AES data-at-rest cryptographic operations.

It provides built-in inline encryption/decryption, stateful packet filtering, and other capabilities, bringing advanced security down to every node with impressive performance and scalability.

It incorporates a hardware root of trust and secure firmware update that keeps malicious firmware from hijacking the adapter.

Technical specifications		NVIDIA Ethernet 100Gb 2-port NVMe-oF Offload Adapter for HPE
Product Number	R8M41A	
Data rate	100 Gb	
Bus type	10/25Gb option is 8 lanes of PCIe Gen4 compatible with PCIe Gen3	
Form factor	PCIe HHHL	
Power	12W typical, 16W max	
Server type supported	HPE ProLiant and HPE Alletra Storage platforms. Refer to the server QuickSpecs for more information.	
IEEE compliance	802.3	
Compatible operating systems	Windows, Linux, VMware	
Warranty	Three-year limited warranty, parts exchange next business day delivery. For more warranty information visit http://www.hpe.com/storage/warranty	
Connector type	LC	
Supported cables	AOC	

R8M41A = NVidia (MCX623106AC-CDAT) CRYPTO READY

S2A69A = NVidia (MCX631102AC-ADAT) CRYPTO READY

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Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

HPE GreenLake

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