

HPE MR Gen10 Plus Controllers

HPE MR416i-a Gen10 Plus x16 Lanes 4GB Cache NVMe/SAS 12G Controller (P26279-B21)



Overview

Does your data center, cloud, or high-performance computing (HPC) environment require increased storage capacity protection, flexibility, and performance for today's application demands?

Data center, cloud, and HPC environments require large amounts of storage capacity, that provide the protection, flexibility, and performance that today's applications demand. HPE MR Gen10 Plus Controllers offer 12Gb/s SAS / SATA / PCIe (NVMe) Gen4 Tri-Mode support with 16 and 8 internal ports to address the needs by delivering more performance and RAID data protection for high-end server storage applications.

These controllers are the first RAID adapters to offer PCIe Gen4 host and PCIe Gen4 storage interfaces which enables high bandwidth and more IOPS. Also, the Tri-Mode SerDes technology enables operation of NVMe, SAS, or SATA devices in a single drive bay operating in all modes concurrently,

seamlessly negotiating between speeds and protocols.

Features

Powerful Performance

HPE MR Gen10 Plus Controllers feature the MR416i-a Gen10 Plus, MR416i-p Gen10 Plus, MR216i-a Gen10 Plus, and MR216i-p Gen10 Plus controllers with impressive performance, including up to 13,700 Mbs of bandwidth, 3 million random read IOPS, and 240K RAID5 random write IOPS.

2nd Generation Tri-Mode SerDes

HPE MR Gen10 Plus Controllers are enabled with SerDes for exceptional support of NVMe4/SAS3/SATA protocols.

With Tri-Mode support, achieve the scalability and flexibility you need for shifting business environments.

Enhanced Security

HPE MR Gen10 Plus Controllers are built with the Silicon Root of Trust from HPE for firmware authentication and support for self-encrypting drives to help ensure protection for data at rest and prevention of malware.

Software Supported

HPE MR Gen10 Plus Storage Controllers support all major OS's including but not limited to Windows, Linux®, and VMware®; full tool suite, including command line interface, web-based management, and out-of-band management support.

Technical specifications		HPE MR416i-a Gen10 Plus x16 Lanes 4GB Cache NVMe/SAS 12G Controller
Product Number	P26279-B21	
Transfer rate	PCIe Gen4 host / Gen4 NVMe / Gen 3 SAS/SATA	
Form factor	(MR416i-p Gen10 Plus / MR216i-p Gen10 Plus) – Standard HHHL PCIe plug-in Controller (MR416i-a Gen10 Plus / MR216i-a Gen10 Plus) – Type-a Modular Controller	
Ports	2x8 host / x16 internal tri-mode	
Cache	4 GB (MR416i-a Gen10 Plus, MR416i-p Gen10 Plus)	
RAID levels	0, 1, 5, 6, 10, 50, 60	
Servers supported	See HPE MR Gen10 Plus Controllers QuickSpecs for more detail	
Additional features	See HPE MR Gen10 Plus Controllers QuickSpecs	
Certifications	See HPE MR Gen10 Plus Controllers QuickSpecs	
Secure encrypted drives	Supported	
Storage protocol	SATA / SAS / NVMe	
Storage management	MegaRAID Storage Administrator (MRSA), StorCLI, HII, Redfish (Inventory and Events)	
Product dimensions	11.2 cm	
Weight	0.129 kg	
Warranty	The warranty for this device is 3-years parts only.	

HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

Advisory & Professional services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Support services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

- **HPE Complete Care Service:** a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.
- **HPE Tech Care Service:** the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.
- **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options

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

HPE GreenLake

[HPE GreenLake edge-to-cloud platform](#) is HPE's market-leading as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model, on premises, fully managed in a pay per use model.

If you are looking for more services, like **IT financing solutions**, please [explore them here](#).

[For additional technical information,
available models and options, please
reference the QuickSpecs](#)

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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