HPE Compute MR Controllers

What's new

- Standard PCI HH/HL and OCP NIC 3.0 form factors.
- DMTF Security Protocol Data Model (SPDM) supports certificate-based authentication with HPE iLO 6.
- Hardware Root of Trust (HWRoT) protects against malicious firmware.
- MegaRAID Storage Administrator (MRSA), Storage Command Line Interface (StorCLI), Unified Extensible Firmware Interface (UEFI), and Redfish management.
- MR932i-p with PCIe Gen5 speeds (32G NVMe and 24G SAS) and does not support SATA SSDs nor SATA/SAS HDDs.

Overview

Do you need a versatile, simplified, and flexible choice for your data centers? HPE Compute MR Controllers are expansive and agile PCIe Gen4 (PCIe Gen5 for MR932i-p) storage controllers based on Broadcom MegaRAID® technology that deliver quality, performance, and security for mission-critical applications. The MR416i-o and MR416i-p controllers are ideal for most data center environments where RAID is applicable offering reduced rebuild times, high bandwidth, and 240K RAID5 Random Write IOPS. The MR416i-o and MR416i-p controllers are ideal for many virtualized environments where HBA / pass-through mode is applicable offering high bandwidth and three million random write IOPS. HPE Compute MR Controllers offer solutions for multiple workflows across multiple applications to deliver customer satisfaction. For those requiring PQC security within their installation, MR932i-p PQC is available.

– MR932i-p PQC enables security for PQC 2030 requirements.

Features

Powerful Performance

HPE Compute MR Controllers offer up to 13.7 GB/s of bandwidth, and eight PCIe Gen4 host lanes.

HPE Compute MR Controllers offer 3M Random Read IOPS and 240K RAID5 Random Write IOPS.

MR932i-p now offers 16 PCIe Gen5 host lanes with 32G NVMe and 24G SAS speeds.

MR932i-p PQC now offers security enablement for PQC 2030 requirements.

Enhanced Security

HPE Compute MR Controllers are built with the HPE Silicon Root of Trust for firmware authentication and support for self-encrypting drives to help protect data at rest and prevent malware.

HPE Compute MR Controllers now offer DMTF SPDM that supports certificate-based authentication with HPE iLO 6.

Software Supported

HPE Compute MR Controllers support full tool suite including command line interface, web-based management, and out-of-band management support.

Supported operating systems include, but are not limited to Windows®, Linux®, and VMware®.

Technical specifications	HPE Compute MR Controllers
Servers supported	Refer to platform QuickSpecs to see controller support.
Cache	MR216i-o = None MR216i-p = None MR408i-o = 4 GB MR408i-p = 4 GB MR416i-o = 8 GB MR416i-p = 8 GB MR932i-p = internal cache MR932i-p PQC = internal cache
Certifications	Refer to HPE Compute MR Controllers QuickSpecs
Ports	MR216i-o = 2x 8 LP SlimSAS MR216i-p = 2x 8 SlimSAS MR408i-o = 1x 8 LP SlimSAS MR408i-p = 1x 8 SlimSAS MR416i-o = 2x 8 LP SlimSAS MR416i-p = 2x 8 SlimSAS MR932i-p = 4x 8 MCIO MR932i-p PQC = 4x 8 MCIO
RAID levels	(MR416i-o / MR416i-p / MR408i-o / MR408i-p / MR932i-p / MR932i-p PQC) – 0, 1, 5, 6, 10, 50, 60 (MR216i-o / MR216i-p) – 0, 1, 10
Form factor	(MR216i-p / MR416i-p / MR932i-p / MR932i-p PQC) Standard PCI HH/HL (MR216i-o / MR416i-o / MR408i-o / MR408i-p) OCP NIC 3.0 form-factor
Warranty	The warranty for this device is 3-years parts only.
Secure encrypted drives	Supported
Storage protocol	6G SATA, 12G SAS, 16G NVMe for MR200/MR400 series 32G NVMe, 24G SAS for MR932i-p / MR932i-p PQC
Storage management	MRSA, StorCLI, UEFI, and Redfish management

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.

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

For additional technical information, available models and options, please reference the QuickSpecs

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PSN1014689150USEN, November, 2026.

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