

Overview

HPE MSA 2040 is an ENERGY STAR certified, high-performance storage array designed for entry-level customers desiring 8Gb/16Gb Fibre Channel, 1GbE/10GbE iSCSI, or 12Gb SAS connectivity with 4 host ports per controller. The HPE MSA 2040 Storage is the ideal solution for customers running Oracle, Microsoft, SAP environments and those who are deploying virtual server technologies like VMware and Hyper-V. The MSA 2040 delivers enterprise functionality that enhances virtual environments, simplifies management, and reduces costs. Easy to deploy, scale and maintain. HPE MSA 2040 Arrays ensure that crucial business data remains available.

The MSA 2040 offers the following features

- High performance controller architecture
- 6GB cache per controller (Data (Read/Write) cache = 4GB and Metadata and System OS memory = 2GB)
- Support for SSDs, Enterprise SAS HDDs, Midline SAS HDDs, and Self Encrypting Drives
- SAN and SAS interfaces
- Up to four (4) host ports per controller
- Ships standard with a 64 snapshots license for increased data protection.
- ENERGY STAR Certified for cost savings via reduced energy consumption and regulatory rebates.

Quick Specs

Table 1 shows the Quick Specs.

Product Code	C8R09A
Description	MSA 2040 San Controller
Product Type	SAS Controller
Controller Type	6Gb/s SAS
RAID Supported	Yes
RAID Levels	0 1 3 5 10 6 50
SAS Connector Details	SFF-8088
Form Factor	Plug-in Card
Compatibility	HP Modular Smart Array 2040
Manufacturer	HPE

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Specification

C8R09A Specification

Mfg Part Number	C8R09A
Brand	Hewlett Packard Enterprise
Product series	2040 Modular Smart Array (MSA 2040)
Product category	Storage
Interface	
Connector Type:	26 pin 4x Shielded Mini MultiLane SAS (SFF-8088)
Type	SAS 6Gb/s
User Interface	Status and activity provided via management interfaces. Status Indicators on front of Controller
Disk Drive and Enclosure Protocol	6 Gb SAS - Serial Attached SCSI
Slots	4
Storage Controller	
Cache Memory	4GB Read/Write
Cache Backup	ECC protection with back up to flash memory (indefinite backup)
Metadata and System OS memory	2GB
Upgradeable Firmware	yes
RAID Support	RAID 0 , RAID 1 , RAID 10 , RAID 3 , RAID 5 , RAID 50 , RAID 6
Support	
Host Ports	FC: 4 x 8Gb Fibre Channel (per controller) FC: 4 x 16Gb Fibre Channel (per controller) iSCSI: 4 x 10GbE iSCSI (per controller) iSCSI: 4 x 1GbE iSCSI (per controller)
Expansion Port	SAS (SFF8088) 4x lane 6 Gb SAS
Regulatory Info	
Safety	UL 60950-1 (USA) CAN/CSA-C22.2 No.60950-1-03 (Canada) EN 60950-1 (European Union) GS mark (Germany) IEC 60950-1 (International)
RoHS and WEEE	RoHS-6/6 Compliance, China RoHS, WEEE

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