

# HPE MSA 2050 SAN NEBS Certified DC Power SFF Storage (Q1J04A)

## Disk Storage Systems



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### What's new

- Introducing new self-encrypting SSDs for enhanced security in a hybrid flash array configuration.
- 800 GB and 1.6 TB SAS 12G mixed use small form factor SSDs with a three-year warranty

### Overview

Looking for affordable, high-performance shared storage? The HPE MSA 2050 SAN Storage is a flash ready system designed for affordable application acceleration ideal for small and remote office deployments. Don't let the low cost fool you, it gives you the combination of simplicity, flexibility to grow now, and advanced features you may not expect in an entry-priced array. Start small and scale as needed with any combination of solid state drives (SSDs), high-performance enterprise, or lower-cost midline SAS-based hard disk drives (HDDs). HPE MSA 2050 SAN Storage has been the industry-leading entry storage Fibre Channel (FC) platform for the past eight years, with nearly 500,000 systems sold worldwide [1]. Delivers 2x

higher performance [2] than the previous generation at the same price, delivering in excess of 200,000 IOPS. It's seriously simple and affordable flash-ready storage to help you get the most performance for the lowest cost.

## Features

### **Accelerates Applications Affordably**

The HPE MSA 2050 SAN Storage performs at 200,000 IOPS delivering affordable application acceleration for small to medium-sized businesses both local and remote.

Flexible base model delivers 2X more performance than the previous generation HPE MSA 2040 SAN Storage for the same price.

### **Advanced Data Services With No Experience Required**

The HPE MSA 2050 SAN Storage is easy to install, easy to use, easy to maintain, no previous storage expertise required.

Automated tiering dynamically responds to workload changes, so you don't have to.

### **Keep Your Business Running with Expanded Data Protection Features**

The HPE MSA 2050 SAN Storage delivers updated virtualized snapshot technology making data protection and instant recovery a snap.

Remote replication with Fibre Channel (FC) and iSCSI supports an affordable disaster recovery solution.

Encrypted SSDs and HDDs for a data secure hybrid flash array.

### **Grow Flexibly Now and Into the Future**

The HPE MSA 2050 SAN Storage supports data-in-place upgrades protecting drive investments and reduces data migrations.

Start small and scale as needed with any combination of SSDs, enterprise or midline SAS HDDs.

**Technical specifications****HPE MSA 2050 SAN NEBS Certified DC Power SFF Storage**

<b>Product Number (SKU)</b>	Q1J04A
<b>Capacity</b>	614 TB SFF maximum raw capacity
<b>Drive description</b>	24 SFF SAS/MDL SAS/SSD supported
<b>Host interface</b>	One 16 Gb/8 Gb Fibre Channel 4-ports per controller or one 1GbE/10GbE iSCSI 4-ports per controller is included
<b>Storage controller</b>	Two HPE MSA 2050 SAN controllers included
<b>Storage expansion options</b>	HPE MSA 2050 SAN DC-power Carrier Grade SFF Disk Enclosure
<b>Clustering support</b>	Windows, Linux, HP-UX, OpenVMS
<b>SAN backup support</b>	Yes
<b>Systems Insight Manager support</b>	Yes
<b>Compatible operating systems</b>	Microsoft Windows Server 2016 Microsoft Windows Server 2012, Microsoft Windows Server 2012 R2, Microsoft Windows Hyper-V, HP-UX, Red Hat Linux, SUSE Linux, VMware, Detailed information available at: <a href="http://www.hpe.com/storage/spock">http://www.hpe.com/storage/spock</a>
<b>Form factor</b>	2U
<b>Minimum dimensions (W x D x H)</b>	8.9 x 49.5 x 44.7 cm
<b>Weight</b>	18.4 kg
<b>Warranty</b>	Three-year limited warranty, parts exchange Next Business day delivery. For more warranty information refer to <a href="http://h20564.www2.hpe.com/hpsc/wc/public/home">http://h20564.www2.hpe.com/hpsc/wc/public/home</a> .

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### Additional resources

**QuickSpecs**

[hpe.com/h20195/v2/GetDocument.aspx?docname=a00008276enw](http://hpe.com/h20195/v2/GetDocument.aspx?docname=a00008276enw)

## HPE Pointnext

**HPE Pointnext** leverages our breadth and depth of technical expertise and innovation to help to accelerate digital transformation. A comprehensive portfolio that includes – Advisory, Professional, and Operational Services is designed to help you evolve and grow today and into the future.

### Operational Services

- **HPE Flexible Capacity** is a new consumption model to manage on-demand capacity, combining the agility and economics of public cloud with the security and performance of on-premises IT.
- **HPE Datacenter Care** offers a tailored operational support solution built on core deliverables. It includes hardware and software support, a team of experts to help personalise deliverables and share best practices, as well as optional building blocks to address specific IT and business needs.
- **HPE Proactive Care** is an integrated set of hardware and software support including an enhanced call experience with start to finish case management helping resolve incidents quickly and keeping IT reliable and stable.
- **HPE Foundation Care** helps when there is a hardware or software problem offering several response levels dependent on IT and business requirements.

**Advisory Services** includes design, strategy, road map, and other services to help enable the digital transformation journey, tuned to IT and business needs. Advisory Services helps customers on their journey to Hybrid IT, Big Data, and the Intelligent Edge.

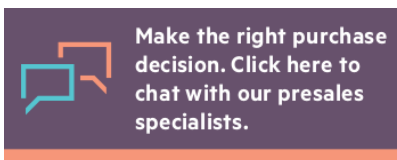
**Professional Services** helps integrate the new solution with project management, installation and startup, relocation services, and more. We help mitigate risk to the business so there is no interruption when new technology is being integrated in the existing IT environment.

[1] Source: IDC WW Quarterly Enterprise Storage Systems Tracker, 4Q16, based on vendor revenues.

[2] Performance based on comparison of HPE MSA 2040 SAN Storage to the HPE MSA 2050 SAN Storage systems using 16 Gb Fibre Channel 'Virtual' storage, Mixed Use SSDs, RAID 1, 8K Random Reads and Writes. IOPS: MSA 2050 Random Reads 220,600 MSA 2040 Random Reads 96,000 Improvement: 2.3x MSA 2050 Random Writes 102,800 MSA 2040 Random Writes 40,500 Improvement: 2.5x

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