



# **HPE MSA 1050 1GBE ISCSI DUAL CONTROLLER LFF STORAGE (Q2R22B)**

## **MSA Storage**



### **OVERVIEW**

Need a modern shared storage array which is flash-ready when you are and affordable with what's left of a small budget? The HPE MSA 1050 SAN Storage brings affordable flash storage down to the most price sensitive customers. Designed to meet entry-level storage requirements, the HPE MSA 1050 SAN Storage is a good fit for budget constrained customers. With one of the lowest entry price point in the Hewlett Packard Enterprise

Storage portfolio and field-proven HPE ProLiant compatibility, the HPE MSA 1050 SAN Storage is the platform of choice for smaller IT workloads. The HPE MSA 1050 SAN Storage features iSCSI, FC and SAS host interface connectivity at previously unattainable entry price points. This storage allows users to take advantage of the latest storage technologies while also providing a balance between performance and budget. This portfolio has been the industry-leading entry storage FC platform [1] for the past eight years, with over 500,000 storage systems sold worldwide.

## FEATURES

### **Affordable, Flash-ready Storage**

The HPE MSA 1050 SAN Storage base unit comes factory-configured with dual-controller arrays, four host ports delivering 8 Gb Fibre Channel, 1GbE iSCSI, 10GbE iSCSI or 12 Gb SAS.

Moving to a modern flash-ready array delivers performance enhancement and decreased latencies. Advanced data services and a small investment in flash can take your organization to the next level.

### **Simple, Proven HPE ProLiant Gen10 server Compatible Shared Storage**

The HPE MSA 1050 SAN storage continues its heritage of providing affordable, easy to use shared storage without a big learning curve with its intuitive setup and management for HPE ProLiant Server administrators.

Matching industrial design to fit right in with your HPE ProLiant Gen10 servers.

### **Advanced Virtualization Services with a Simplified Licensing Approach**

The HPE MSA 1050 SAN storage leverages flash with easy to use, easy to maintain tiering and read cache technologies.

No storage expertise necessary; this system dynamically responds to workload changes so you don't have to.

### **Expandable and Upgradable to Meet New Demands**

With the HPE MSA 1050 SAN storage, you can add additional hard disk drives (HDDs) or disk expansions to your HPE MSA 1050 SAN storage or upgrade to the HPE MSA 2050 SAN storage through data-in-place upgrades; a simple 15 minute upgrade.

No migrations required making it a lot easier to install and manage.



## Technical specifications

## HPE MSA 1050 1GbE iSCSI Dual Controller LFF Storage

<b>Product Number (SKU)</b>	Q2R22B
<b>Capacity</b>	672 TB maximum including expansion, depending on model
<b>Drive description</b>	96 SFF or 48 LFF Maximum including expansion, depending on model
<b>Host interface</b>	8 Gb Fibre Channel, 4-ports per system or 1 Gb iSCSI, 4-ports per system or 10 Gb iSCSI, 4-ports per system or 12 Gb SAS, 4-ports per system, depending on model
<b>Storage controller</b>	(2) HPE MSA 1050 2-port 8 Gb FC Controllers or (2) HPE MSA 1050 2-port 1 Gb iSCSI Controllers or (2) HPE MSA 1050 2-port 10 Gb iSCSI Controllers or (2) HPE MSA 1050 2-port 12 Gb SAS Controllers, depending on model
<b>Storage expansion options</b>	HPE MSA 2050 SFF Disk Enclosure or HPE MSA 2050 LFF Disk Enclosure
<b>Clustering support</b>	Windows, Linux, HP-UX
<b>SAN backup support</b>	Yes
<b>Storage mirroring support</b>	No
<b>Systems Insight Manager support</b>	Yes
<b>Compatible operating systems</b>	Microsoft Windows Server 2019, Microsoft Windows Server 2016, Microsoft Windows Server 2012, Red Hat Linux, SuSE SLES Linux, VMware, HP-UX. Detailed information available at: <a href="http://www.hpe.com/storage/spock">http://www.hpe.com/storage/spock</a>
<b>Form factor</b>	2U rack height
<b>Minimum dimensions ( H x W x D)</b>	8.9 x 49.5 x 44.7 cm
<b>Weight</b>	17.55 kg
<b>Warranty</b>	Three-year limited warranty, parts exchange Next Business day delivery. For more warranty information refer to <a href="http://www.hpe.com/storage/warranty">http://www.hpe.com/storage/warranty</a>



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

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- [HPE Proactive Care](#) offers an enhanced call experience and helps reduce problems with personalized proactive reports and advice. This also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.). [Read more](#)
- [HPE Foundation Care](#) helps when there is a problem and has a choice of response levels. Collaborative software support is included and provides troubleshooting help for ISVs running on your server. [Read more.](#)

### Other related services

[Defective Media Retention](#) is optional and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

[HPE Service Credits](#) offers a menu of technical services, access additional resources, and specialist skills.

[HPE Education Services](#) provides comprehensive training designed to expand the skills of your IT staff and keep them up to speed with the latest technologies.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

## HPE GREENLAKE

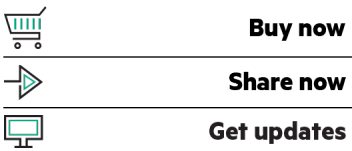
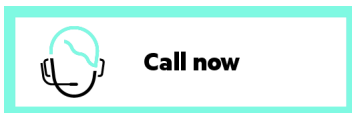
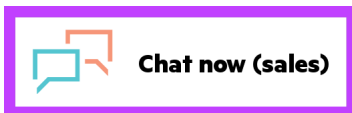
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[1] Source: IDC WW Quarterly Enterprise Storage Systems Tracker, 4Q16, based on vendor revenues.

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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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