



**Hewlett Packard**  
Enterprise

# HPE MSA 2050 SAN STORAGE

## MSA Storage



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### WHAT'S NEW

- New TAA-compliant HPE MSA 2050 Dual Controller Storage Array models including support for SAN SFF and SAN LFF.

### 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 Storage

|  |   |
|--|---|
| <b>Capacity</b>                        | 614 TB SFF or 1344 TB LFF, maximum raw capacity including expansion, depending on model   |
| <b>Drive description</b>               | Up to 192 SFF SAS/ENT and/or SAS/SSD, or up to 96 LFF SAS/MDL and/or SAS/SSD, maximum supported including expansion, depending on model and configuration   |
| <b>Host interface</b>                  | 16 Gb/8 Gb Fibre Channel 8-ports per system or 1 GbE/10GbE iSCSI 8-ports per system or 12 Gb SAS 8-ports per system are supported depending on array model  |
| <b>Storage controller</b>              | 2x HPE MSA 2050 SAN controllers or 2x HPE MSA 2050 SAS controllers supported, depending on model  |
| <b>Storage expansion options</b>       | Up to 7x HPE MSA 2050 LFF Disk Enclosures and/or HPE MSA 2050 SFF Disk Enclosures, or 7x HPE MSA 2050 SAN DC-Power Carrier Grade SFF Disk Enclosures depending on array model   |
| <b>Clustering support</b>              | Windows, Linux, HP-UX   |
| <b>SAN backup support</b>              | Yes   |
| <b>Storage mirroring support</b>       | Yes   |
| <b>Systems Insight Manager support</b> | Yes   |
| <b>Compatible operating systems</b>    | Microsoft Windows Server 2019, Microsoft Windows Server 2016, Microsoft Windows Server 2012, HP-UX, Red Hat Linux, SuSE SLES Linux, VMware ESXi, OVMS. 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>Product Dimensions (metric)</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="https://www.hpe.com/storage/warranty">https://www.hpe.com/storage/warranty</a> .  |



Most, if not all IT organizations are on a digital transformation journey — each at a different stage. With over 11,000 IT projects conducted and 1.4 million customer interactions each year, [HPE Pointnext Services'](#) 15,000+ experts and its vast ecosystem of solution partners and channel partners are uniquely able to help you at every stage of your digital transformation. We bring together technology and expertise to help you drive your business forward and prepare for whatever is next.

Advisory and Professional Services help you accelerate your digital transformation. [Operational Services](#) help you remove complexity and respond rapidly to business demands.

### **Operational Services from HPE Pointnext Services**

[HPE Pointnext Tech Care](#) provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

- **[HPE Datacenter Care](#)** helps modernize and simplify IT operations. Partner with an assigned account team, access technical expertise, an enhanced call experience gives you priority access, choose hardware and software support, implement proactive monitoring to help stay ahead of issues, and access HPE IT best practices and IP.
- **[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](#)** delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation.

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



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

## HPE GREENLAKE

[HPE Greenlake](#) is HPE's market-leading IT 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. HPE GreenLake delivers public cloud services and infrastructure for workloads 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](#).

[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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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.

Image may differ from the actual product  
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