Hewlett Packard Enterprise

HPE MSA 2050 SAS DUAL CONTROLLER LFF STORAGE (Q1J28B)

MSA Storage



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 SAS Dual Controller LFF Storage

Product Number (SKU)	Q1J28B
Capacity	614 TB SFF or 1344 TB LFF, maximum raw capacity, depending on model
Drive description	192 SFF or 96 LFF maximum including expansion, depending on model
Host interface	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
Storage controller	(2) HPE MSA 2050 SAN controllers or (2) HPE MSA 2050 SAS controllers, supported, depending on model
Storage expansion options	HPE MSA 2050 LFF Disk Enclosure or HPE MSA 2050 SFF Disk Enclosure or the HPE MSA 2050 SAN DC-Power Carrier Grade SFF Disk Enclosure
Clustering support	Windows, Linux, HP-UX
SAN backup support	Yes
Systems Insight Manager support	Yes
Compatible operating systems	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: http://www.hpe.com/storage/spock
Form factor	2U
Minimum dimensions (H x W x D)	8.9 x 49.5 x 44.7 cm
Weight	18.4 kg
Warranty	Three-year limited warranty, parts exchange Next Business day delivery. For more warranty information refer to http://www.hpe.com/storage/warranty.

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

HPE POINTNEXT

Access expertise at every step of your IT journey with HPE Pointnext Services. Advisory Services focuses on your business outcomes and goals, to design your transformation and build a roadmap tuned to your unique challenges. Our Professional and Operational Services help speed up time-to-production and keep your IT stable and reliable.

Operational Services from HPE Pointnext Services

- **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 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

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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