



HPE MSA 2050 SAS DUAL CONTROLLER SFF STORAGE (Q1J29B)

Disk Storage Systems



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 SFF Storage

Product Number (SKU)	Q1J29B
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 SERVICES

HPE Pointnext Services 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 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.

HPE GREENLAKE

HPE Greenlake is an as-a-service offering that delivers on-demand capacity and planning, combining the agility and economics of public cloud with the security and performance of on-premises IT.

[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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PSN1012683877UKEN, March 17, 2020.