

# HPE 1.6TB SAS 24G Mixed Use SFF BC Multi Vendor SSD (P49049-K21)



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## What's new

- HPE 1.6 TB SAS 24G Mixed Use SFF, BC, PM7, Self-encrypting FIPS (Federal Information Processing Standards) SSDs
- Launching Self-encrypting FIPS 140-3 Drive

## Overview

Do you need to accelerate the performance of your mixed use applications?

HPE SAS Mixed Use (MU) Solid State Drives (SSDs) deliver high performance and endurance for applications requiring high read and write IOPS performance. HPE Enterprise SAS MU SSDs transfer data at full duplex (bidirectional) allowing greater I/O bandwidth to alleviate bottlenecks at quadruple the 6Gb interface of SATA drives.

HPE Enterprise SAS MU SSDs are best suited for mission-

critical applications requiring a balanced mix of read and write I/O to deliver significantly faster data transfers from storage than SATA SSDs. HPE SAS MU SSDs are ideal for big data analytics, high performance compute and virtualization workloads.

SAS technology continues to be the interface of choice for many workloads for its reliability and 24x7 operation in the enterprise data center.

HPE SSDs are backed by over 3 million hours of testing and qualification [1] ensuring reliable, high performing drives.

## Features

### **High Performance, Exceptional Reliability, and Efficiency for Faster Business Results**

HPE SAS Mixed Use (MU) SSDs are ideal for big data analytics, cloud computing, high performance compute, database applications and virtualization.

Achieve higher IOPS and lower latency to enhance the performance of your data center.

Maintain data accuracy with full data-path error detection and surprise power loss protection.

Choose from a broad portfolio of enhanced solutions in a wide variety of capacities.

Offering Self-encrypting FIPS 140-2 and FIPS 140-3 Certified Drives.

### **HPE 24Gb Enabled SAS SSDs are Capable of 2x the Performance of 12Gb SAS SSDs**

Next Generation of SAS interface, based on the SAS-4 specification.

HPE 24Gb Enterprise SAS SSDs are compatible with 12Gb Enterprise SAS ecosystem.



## Technical specifications

## HPE 1.6TB SAS 24G Mixed Use SFF BC Multi Vendor SSD

<b>Product Number</b>	P49049-K21
<b>Lifetime writes</b>	8,760
<b>Endurance DWPD (Drive Writes Per Day)</b>	3
<b>Read IOPS</b>	Random Read IOPS (4KiB, Q=16)= 150,000 Max Random Read IOPS (4KiB)=155,000@Q64
<b>Write IOPS</b>	Random Write IOPS (4KiB, Q=16) 165,000 Max Random Write IOPS (4KiB) 165,000@Q16
<b>Power (Watts)</b>	13.61
<b>Plug type</b>	Hot pluggable
<b>Height</b>	15mm
<b>Platform supported</b>	HPE Disk Enclosures/Apollo 4200/4500
<b>Warranty</b>	HPE Solid State Drives and Add-In Cards have a standard 3/0/0 warranty Customer Self Repair (CSR) subject to maximum usage limitations. Maximum usage limit is the maximum amount of data that can be written to the drive. Drives that have reached this limit will not be eligible for warranty coverage.

[1] HPE Specified Testing: Over 3M hour test quant, derived from a combination of drive qualification test plans, specifically HDDQ spec-supplier responsibility to perform, HDDQ spec-HPE responsibility to perform, Reliability Demonstration Test (RDT) spec, CSI integration test spec, and Pilot test requirements.



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

## HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

### Consulting services

Experts can help you map out your path to hybrid cloud and optimize your operations.

### Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

### Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

- HPE Complete Care Service: a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.
- HPE Tech Care Service: the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

### Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

### HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.

[The Defective Media Retention \(DMR\)](#) service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction. [Comprehensive Defective Material Retention \(CDMR\)](#) allows you to keep all data retentive components.

## HPE GreenLake

[HPE GreenLake edge-to-cloud platform](#) is HPE's market-leading 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, on premises, fully managed in a pay per use model.

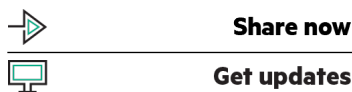
If you are looking for more services, like **IT financing solutions**, please explore them [here](#).

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Explore **HPE GreenLake**



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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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