Data sheet

HPE Value SAS Mixed Use Solid State Drives

HPE 960GB SAS 12G Mixed Use LFF LPC Value SAS Multi Vendor SSD (P37009-K21)

What's new

- Offering 960 GB, 1.92 TB, and 3.84 TB storage capacities on selected models of Value SAS SSDs.

Overview

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

HPE Value SAS Mixed Use (MU) SSDs optimize your enterprise with faster 12 Gb data transfer rates and near price parity compared to 6 Gb SATA SSDs. HPE Value SAS MU SSDs deliver enterprise features at an affordable price for applications requiring a balanced mix of read and write performance, and are ideal for database, transactional applications and virtualization workloads.

HPE Value SAS MU SSDs transfer data at 12 Gb full duplex (bidirectional) allowing greater I/O bandwidth to alleviate bottlenecks at twice the 6 Gb interface of SATA SSDs. A single-ported version of enterprise 12 Gb SAS, HPE Value SAS MU SSDs provide slightly reduced performance in exchange for being price competitive to enterprise SATA SSDs.

HPE Value SAS SSDs are presented as an HPE Multi Vendor SKU offering which provides customers with the shortest lead time to available supply on preferably priced HPE Value SAS SSDs.

Features

Value SAS SSDs Deliver Twice the Interface Speed of SATA SSDs at a Lower Cost than SAS SSDs

HPE Value SAS Solid State Drives support full-duplex 12 Gb, versus SATA SSDs that are bottlenecked by 6 Gb SATA interface specification.

Featuring similar price points to 6 Gb SATA SSDs while delivering more performance per dollar compare to enterprise SATA SSDs in server applications.

HPE Value SAS Solid State Drives offer a significant random IOPS performance boost over 6 Gb SATA SSDs.

Built on robust enterprise 12 Gb SAS protocol, Value SAS SSDs offer more enhanced management, error recovery, and error reporting features than the Serial ATA feature set utilized on 6 Gb SATA SSDs.

Value SAS SSDs Run More Data Analytic Workloads in Less Time and with Lower Latency than SATA SSDs

HPE Value SAS Solid State Drives offer faster connection rates that can improve the performance of decision support system applications than SATA SSDs.

Value SAS SSDs save time executing data analytic workloads with lower read latency needed to access and pull data compared to 6 Gb SATA SSDs.

By improving performance at similar price points, Value SAS SSDs deliver better data analytics performance per dollar than 6 Gb SATA SSDs.

HPE Multi Vendor Offering for Value SAS SSDs Help Simplify Purchasing Decisions While Improving TCO

HPE Multi Vendor offering provides shorter lead times to best available HPE Value SAS SSD supply.

Preferable pricing on HPE qualified Value SAS SSDs and extended SKU lifecycles simplifies the procurement process.

Assurance that the HPE Value SAS Solid State Drives selected delivers the minimum performance published or better.

Technical specifications	HPE 960GB SAS 12G Mixed Use LFF LPC Value SAS Multi Vendor SSD
Product Number	P37009-K21
Lifetime writes	5,250
Endurance DWPD (Drive Writes Per Day)	3
Read IOPS	Random Read IOPS (4KiB, Q=16)=105,000 Max Random Read IOPS (4KiB)=155,000@Q32
Write IOPS	Random Write IOPS (4KiB, Q=16)=47,000 Max Random Write IOPS (4KiB)=48,000@Q4
Power (Watts)	6.52
Plug type	Hot pluggable
Height	15mm
Platform supported	HPE Storage Platforms, see QuickSpecs for more information
Product dimensions (metric)	21.92 x 22.86 x 14.61 cm
Weight	0.5 kg
Warranty	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.

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.

Advisory & Professional 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.

Support 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.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

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

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

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

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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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