

HPE SAS Read Intensive Solid State Drives

HPE 1.92TB SAS 12G Read Intensive SFF BC PM1643a SSD (P40557-B21)



What's new

- Offering 960 GB, 1.92 TB, 3.84 TB, 7.68 TB, and 15.36 TB storage capacities on selected models of HPE SAS SSDs.

Overview

Do you need to accelerate the performance of your read intensive applications?

HPE SAS Read Intensive (RI) Solid State Drives (SSDs) deliver enterprise features at an affordable price for applications requiring high read IOPS performance. HPE Enterprise SAS RI SSDs transfer data at full duplex (bidirectional) allowing greater I/O bandwidth to alleviate bottlenecks at twice the 6Gb interface of SATA drives.

HPE SAS RI SSDs are best suited for mission-critical enterprise applications requiring a strong blend of high read IOPS and low latency. HPE Enterprise SAS RI SSDs are ideal for read caching, social media, web servers and boot/swap workloads.

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

Features

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

Achieve high 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.

Enable up to 24 Gb Max performance when combined with appropriate backplanes.

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

Technical specifications	HPE 1.92TB SAS 12G Read Intensive SFF BC PM1643a SSD
Product Number	P40557-B21
Lifetime writes	3,424
Endurance DWPD (Drive Writes Per Day)	1
Read IOPS	Random Read IOPS (4KiB, Q=16)=115,000 Max Random Read IOPS (4KiB)=175,000@Q128
Write IOPS	Random Write IOPS (4KiB, Q=16)=70,000 Max Random Write IOPS (4KiB)=70,000@Q32
Power (Watts)	9.03
Plug type	Hot Pluggable
Height	15mm
Platform supported	HPE Compute Mainstream Platforms, see QuickSpecs for more information
Product dimensions	21.92 x 22.86 x 14.61 cm
Weight	0.68 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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