Hewlett Packard Enterprise

Data sheet

HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (P13678-H21)

Drives and Storage

What's new

- HPE 960 GB, 1.92 TB, 3.84 TB, 7.68 TB, 15.36 TB SAS 12G, Read Intensive, SFF (2.5-inch), SC, 3-year Warranty SSDs
- HPE 1.92 TB, 3.84 TB NVMe High

Overview

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

HPE Read Intensive (RI) Solid State Drives (SSDs) deliver high performance and endurance for applications requiring high

Performance Read Intensive, SFF (2.5-inch), 3-year Warranty, Universal Connect SSDs

random read IOPS performance.

HPE (RI) SSDs are backed by over 3.35 million hours of testing and qualification [1] ensuring reliable, high performing drives.

HPE Value SAS SSDs offer a significant performance boost over SATA SSDs with roughly twice the IOPS of SATA SSDs, enabling you to improve transactional database workloads with affordable Value SAS SSDs.

HPE Digitally Signed Firmware prevents unauthorized access to your data by providing the assurance that drive firmware comes from a trusted source. Icons on the HPE Smart Carrier take the guesswork out of a drive's status, and a "do not remove" button prevents data loss from human error. You can also monitor the lifespan of your SSD with HPE SmartSSD Wear Gauge, allowing you to determine if any drives are at risk of failure

Features

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

HPE solid state drives are ideal for big data analytics, cloud computing, active archiving, database applications, and data warehousing.

Achieve higher IOPs to enhance the performance of your data center.

Maintain data accuracy with full data-path error detection.

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

12 Gb/s SAS, 6 Gb/s SATA, NVMe, M.2, and M.2 Enablement Kits.

HPE Value SAS SSDs Offer Twice the IOPS of SATA SSDs, Significantly Improving Workload Performance

HPE Value SAS solid state drives (SSDs) support 12 Gbs, versus SATA SSDs at 6 Gbs.

Optimized for enterprise application workloads, HPE Value SAS SSDs allow you to do more work with fewer servers by improving and consolidating transactional database workloads.

HPE Value SAS SSDs allow you to reduce operating costs for storing, powering and maintaining servers, as well as reducing your data center footprint.

Available in a variety of storage capacities, HPE Value SAS SSDs are the perfect choice for supporting read-intensive and mixed-use applications.

HPE Multi Vendor SSDs Offer Longer SKU Lifecycles and Immediate Availability on SATA SSDs

HPE enhanced its extensive SSD portfolio with a Multi Vendor SSD SKU offering that allows for extended SKU lifecycles, immediately available supply and preferably priced SATA SSDs.

HPE Multi Vendor SSD SKU offering ensures the SATA SSD selected, delivers the minimum level of performance published, or better.

Technical specifications

HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD

Product Number (SKU)	P13678-H21
Lifetime Writes	4,695
Endurance DWPD (Drive Writes Per Day)	1.34
Read IOPS	Random Read IOPS (4KiB, Q=16)=147,000 Max Random Read IOPS (4KiB)=425,000@Q256
Write IOPS	Random Write IOPS (4KiB, Q=16)=55,000 Max Random Write IOPS (4KiB)=55,000@Q4
Power (Watts)	7.94
Plug Type	Hot Pluggable
Height	15mm
Warranty	3/0/0 warranty Customer Self Repair (CSR) subject to maximum usage limitations. Maximum usage limit: This 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.

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

HPE Pointnext

HPE Pointnext 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.

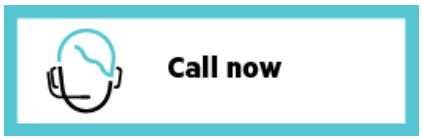
Operational Services

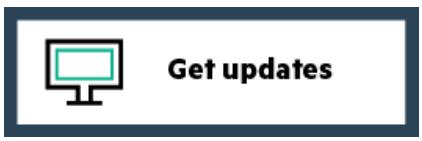
- **HPE Flexible Capacity** is a new consumption model to manage on-demand capacity, combining the agility and economics of public cloud with the security and performance of on-premises IT.
- **HPE Datacenter Care** offers a tailored operational support solution built on core deliverables. It includes hardware and software support, a team of experts to help personalize 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.

[1] HPE internal lab testing. 3.35 million hour test quant is 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. Test conducted in May 2017.





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