

HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF SC U.3 CM6 SSD (P16503-B21)



What's new

- HPE 1.92 TB, 3.84 TB, 7.68 TB NVMe High Performance Read Intensive SFF (2.5-inch), U.2, P5520 SSDs
- HPE 1.92 TB, 3.84 TB, 7.68 TB, 15.36 TB NVMe High Performance Read Intensive SFF (2.5-inch), U.3, PM1733a SSDs

Overview

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

HPE NVMe High Performance Read Intensive (RI) Solid State Drives (SSDs) are best suited for applications requiring a strong blend of high read IOPS, low latency and high endurance at a strong price point. NVMe SSDs communicate directly to applications via the PCIe bus to boost I/O bandwidth and reduce latency.

HPE NVMe High Performance RI SSDs provide high-performance data transfers from storage, at rates faster than SAS or SATA SSDs. Designed to utilize the high bandwidth of PCIe Gen3 and PCIe Gen4 in select servers for workloads high in reads such as read caching, web servers and boot/swap.

HPE SSDs are backed by up to 3.35 million hours of testing and qualification [1] ensuring reliable, high performing drives. HPE Digitally Signed Firmware prevents unauthorized access to data by providing the assurance that drive firmware comes from a trusted source.

Features

High Performance, Exceptional Reliability and Efficiency for Faster Business Results

HPE NVMe High Performance Read Intensive (RI) Solid State Drives are ideal for read caching, social media, bulk storage, email and boot/swap.

Achieve higher IOPS and low latency 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.

HPE NVMe High Performance SSDs.

HPE Continues to Enhance its SSD Portfolio by Offering NVMe U.3 Universal Connect PCIe Gen4 SSDs

HPE NVMe U.3 Universal Connect PCIe Gen4 SSDs deliver higher performance for server-storage solutions to better meet the challenges within high performance workloads.

HPE NVMe U.3 Universal Connect PCIe Gen4 NVMe SSDs are 100% backwards compatible with NVMe U.2 SSD backplanes on HPE Gen10 servers.

Self-encrypting FIPS

Supports Self-Encrypting TCG Opal FIPS-140-2.

Protect data if the storage device is physically stolen or subject to inappropriate chain of custody, returned for warranty, repair, expired lease, disposal, or repurposed for other storage duties.



Technical specifications

HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF SC U.3 CM6 SSD

Product Number	P16503-B21
Lifetime writes	6,848
Endurance DWPD (Drive Writes Per Day)	1
Read IOPS	Random Read IOPS (4KiB, Q=16)=150,000 Max Random Read IOPS (4KiB)=700,000@Q128
Write IOPS	Random Write IOPS (4KiB, Q=16)=130,000 Max Random Write IOPS (4KiB)=150,000@Q32
Power (Watts)	18.2
Plug type	Hot Pluggable
Height	15mm
Platform supported	HPE ProLiant Rack/Tower/BladeSystem Servers/Synergy
Product dimensions (imperial)	5 x 9 x 7 in
Weight	1.1 lb
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.

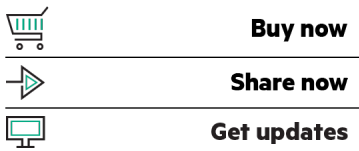
[1] HPE Internal lab testing. Up to 3.35 million hour test quant is derived from a combination of drive qualification test plans, specifically HDDQ spec-supplier responsibility to perform, HDDQ spec-HPE responsibility to perform, RDT-Reliability Demonstration Test (RDT) spec, CSI integration test spec and pilot test requirements.



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

Make the right purchase decision.
Contact our presales specialists.

[Call for availability](#)



**Hewlett Packard
Enterprise**

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](#).

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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