

HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM PM1743 SSD (P57799-B21)



What's new

- Offer 3.84 TB, 7.68 TB, and 15.36 TB storage capacities for our next gen EDSFF E3.S
- Offer better protection with support for Security Protocol and Data Model (SPDM).

Overview

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

HPE NVMe High Performance Read Intensive (RI) Enterprise and Datacenter Standard Form Factor (EDSFF) E3.S 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 Gen 5 bus to boost I/O bandwidth and reduce latency.

HPE NVMe High Performance RI EDSFF E3.S SSDs replace the traditional 2.5 inch small form factor SSD while supporting greater density of NVMe drives. It provides high-performance data transfers at rates faster than SAS or SATA SSDs. Designed to utilize the high bandwidth of PCIe Gen 5 on servers with workloads high in reads such as read caching, web servers, and boot/swap.

Features

High Performance and Exceptional Reliability for Faster Business Results

HPE NVMe High Performance Read Intensive Enterprise and Datacenter Standard Form Factor (EDSFF) E3.S Solid State Drives (SSDs) are ideal for databases, artificial intelligence, machine learning, and high performance servers application.

Achieve higher IOPS and lower latency to enhance the performance of your enterprise servers while maintaining data accuracy with full data-path error detection.

Improved thermals, power, and scalability provide better system efficiency for high I/O applications.

Faster PCIe Gen 5 technology only available with EDSFF E3.S SSDs.

Improved Design and Efficiency for increased performance on Gen 11 Servers

Dramatically increase density with a 1U server that can fit 20 E3.S or 10 E3.S 2T drives, or a 2U server that can fit 36 E3.S or 18 E3.S 2T drives.

Improved power management and density while utilizing less power.



Technical specifications**HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM PM1743 SSD**

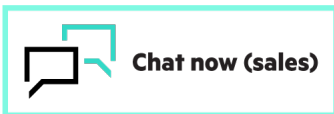
Product Number	P57799-B21
Lifetime writes	7,008
Endurance DWPD (Drive Writes Per Day)	1
Read IOPS	Random Read IOPS (4KiB, Q=16)= 220,626 Max Random Read IOPS (4KiB)= 1,040,714@Q128
Write IOPS	Random Write IOPS (4KiB, Q=16)= 288,895 Max Random Write IOPS (4KiB)= 290,896@Q16
Power (Watts)	22.3
Plug type	Hot Pluggable
Height	7.7 mm
Platform supported	HPE ProLiant ML and DL Gen11 Servers
Product dimensions	20 x 25.4 x 11.6 cm
Weight	0.54 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.



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

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Contact our presales specialists.**

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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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