

# 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**

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

## 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](#).

**Make the right purchase decision.**  
**Contact our presales specialists.**

[Call for availability](#)



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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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