

# HPE NVMe Mainstream Performance Very Read Optimized EDSFF E3.S Solid State Drives

HPE 7.68TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD (P63934-B21)

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## What's new

- Available in scalable sizes: 3.84 TB, 7.68 TB, and 15.36 TB storage capacities.
- Offer drop-in solution with 4k block size and no host-side write shaping needed.
- Offers Next Gen QLC 3D NAND technology.

## Overview

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

HPE NVMe Mainstream Performance Very Read Optimized (VRO) Enterprise and Datacenter Standard Form Factor (EDSFF) E3.S Solid State Drives (SSDs) are best suited for applications requiring a massive amount of data to be stored and assessed 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 EDSFF E3.S SSD replaces 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. The HPE NVMe Mainstream Performance Very Read Optimized EDSFF E3.S SSDs were designed to utilize the high bandwidth of PCIe Gen5 on Hewlett Packard Enterprise servers and storage with workloads high in reads such as AI, content-delivery networks, and data analytics.

## Features

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

HPE NVMe Mainstream Performance Very Read Optimized (VRO) Enterprise and Datacenter Standard Form Factor (EDSFF) E3.S Solid State Drives (SSDs) are ideal for data-intensive workloads, cloud compute, AI, content-delivery networks, or object-based storage.

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

HPE NVMe Mainstream Performance Very Read Optimized EDSFF E3.S SSDs ships with a 1U server that can fit 20 E3.S or 10 E3.S 2T drives.

For larger deployments, a 2U server can fit 36 E3.S or 18 E3.S 2T drives for

accelerated workload performance.

## Technical specifications

## HPE 7.68TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD

<b>Product Number</b>	P63934-B21
<b>Lifetime writes</b>	8,040
<b>Endurance DWPD (Drive Writes Per Day)</b>	Very Read Optimized (VRO) Endurance: <= 0.57 DWPD
<b>Read IOPS</b>	Random Read IOPS (4KiB, Q=16)= 144,842 Max Random Read IOPS (4KiB)= 804,975.3@Q256
<b>Write IOPS</b>	Random Write IOPS (4KiB, Q=16)= 109,023 Max Random Write IOPS (4KiB)= 116,139.2@Q128
<b>Power (Watts)</b>	14.10
<b>Plug type</b>	Hot Pluggable
<b>Height</b>	7.7 mm
<b>Platform supported</b>	HPE Compute Mainstream Platforms, see QuickSpecs for more information
<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

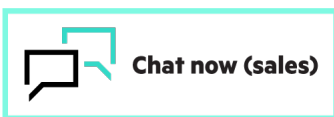
HPE GreenLake edge-to-cloud platform is HPE’s market-leading as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model, on premises, fully managed in a pay per use model.

If you are looking for more services, like **IT financing solutions**, please explore them [here](#).

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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 [PSN1014828746WWEN](#), September, 2024.