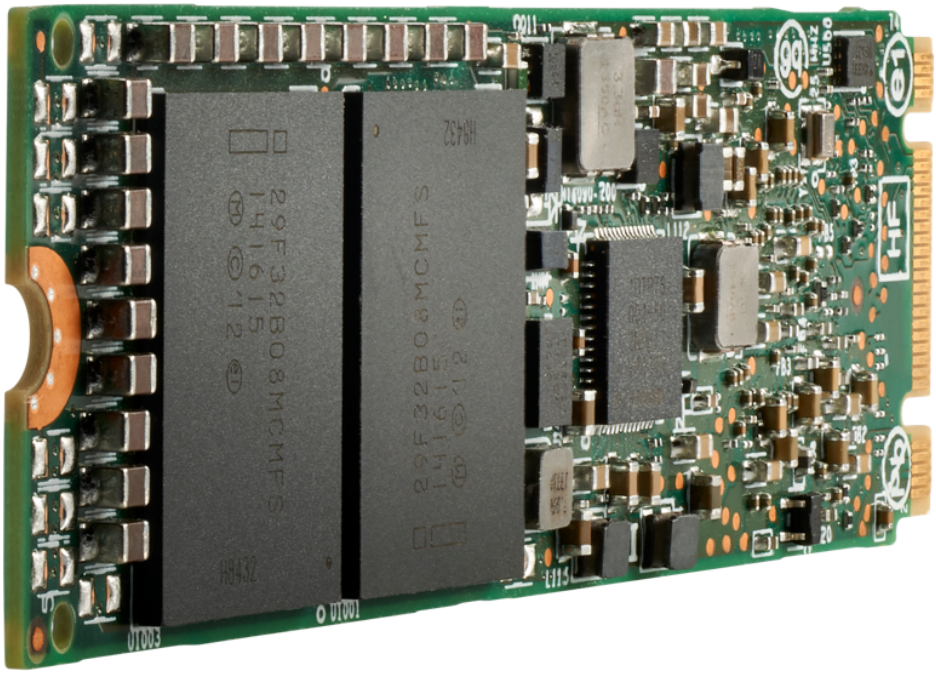
HPE NVMe M.2 Mainstream Performance Read Intensive Solid State Drives

HPE 960GB NVMe Gen3 Mainstream Performance Read Intensive M.2 Multi Vendor SSD (P40514-B21)



What's new

- Offering 480 GB, 960 GB, and 1.92 TB storage capacities

Overview

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

HPE NVMe M.2 Mainstream Intensive Solid State Drives (SSDs) offer enterprise customers high performance with consistently low latency for faster business outcomes. Solid state drives deliver faster load times for today's demanding applications and workloads. Because of the technology used, SSDs are lighter and better able to withstand movement and droppage. In addition, solid state drives use less energy, allowing computers

to run cooler. Because SSDs use nonvolatile storage media that stores persistent data on solid-state flash memory, file copy/write speeds are faster as well.

Features

Enhanced Security and Ongoing Monitoring

HPE NVMe M.2 Mainstream Performance Read Intensive Solid State Drives feature digitally signed firmware to prevent data loss and malicious attacks by verifying that drive firmware comes from a trusted source.

Accelerate Performance

HPE NVMe M.2 Mainstream Performance Read Intensive Solid State Drives feature incredible speed of data transfer, diminutive size, and flexibility of the M.2 expansion slot, making them a perfect match for booting platforms.

Technical specifications	HPE 960GB NVMe Gen3 Mainstream Performance Read Intensive M.2 Multi Vendor SSD
Product Number	P40514-B21
Lifetime writes	981
Endurance DWPD (Drive Writes Per Day)	0.56
Read IOPS	Random Read IOPS (4KiB, Q=16)=155,000 Max Random Read IOPS (4KiB)=480,000@Q256
Write IOPS	Random Write IOPS (4KiB, Q=16)=47,500 Max Random Write IOPS (4KiB)=47,500@Q4
Power (Watts)	6.57
Plug type	Non-Hot Pluggable
Height	2mm
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.
Shipping weight	0.5 kg
Shipping dimensions	10.8 x 15.88 x 3.17 cm
Platform supported	HPE Compute Mainstream Platforms, see QuickSpecs for more information
Capacity	960 GB
Drive form factor	M.2
Interface	NVMe
Workload	Read Intensive

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.

Advisory & Professional 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.

Support 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.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

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

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

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

Visit HPE.com

Chat now

© Copyright 2026 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

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.

PSN1013310605VNEN, October, 2026.

HEWLETT PACKARD ENTERPRISE

hpe.com