

# HPE 375GB NVMe Gen3 High Performance Low Latency Write Intensive SFF BC U.2 P4800X SSD (P40552-K21)



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## What's new

- HPE 800 GB, 400 GB NVMe Gen4 High Performance Low Latency Write Intensive U.2 SFF (2.5-inch), SCN, BC, P5800X, SSD

## Overview

Do you need to accelerate the performance of your write intensive latency sensitive application workloads?

HPE NVMe High Performance Low Latency Write Intensive (WI) Solid State Drives (SSDs) deliver an industry-leading combination of high throughput, low latency, high QoS, and high endurance which is optimized to break through data access bottlenecks. HPE NVMe High Performance Low Latency WI SSDs are based on P4800X and P5800X SSDs featuring 3D XPoint technology. They deliver extremely low latency to accelerate applications for fast caching and fast storage to increase scale per server and reduce transaction costs for latency-sensitive workloads.

All 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 your 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 Low Latency Write Intensive (WI) Solid State Drives are ideal for software-defined storage caching tier, big data analytics, online transaction processing (OLTP), cloud computing, high performance compute, and artificial intelligence.

Achieve higher IOPS 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 Low Latency WI SSDs.

### **HPE Continues to Enhance its SSD Portfolio by Offering NVMe PCIe Gen3 and Gen4 U.2 SSDs**

HPE NVMe PCIe Gen3 and Gen4 U.2 SSDs deliver higher performance for server-storage solutions to better meet the challenges within high performance workloads.

HPE NVMe PCIe Gen3 and Gen4 U.2 SSDs are compatible with NVMe U.2 SSD backplanes on HPE Gen10 and Gen10 Plus servers.

### **Access Data Faster for Greater Insights with HPE NVMe High Performance Low Latency WI SSDs**

Provides outstanding performance and high endurance – with either 30 or 100 Drive Writes per Day (DWPD).

Designed to deliver matched, balanced read and write performance in both IOPS and throughput-based workloads that demand low latency.

Accelerates applications for fast caching and fast storage to increase scale per server and reduce transaction costs for latency-sensitive workloads.



## Technical specifications

## HPE 375GB NVMe Gen3 High Performance Low Latency Write Intensive SFF BC U.2 P4800X SSD

<b>Product Number</b>	P40552-K21
<b>Lifetime writes</b>	20,500
<b>Endurance DWPD (Drive Writes Per Day)</b>	30
<b>Read IOPS</b>	Random Read IOPS (4KiB, Q=16)=585,000 Max Random Read IOPS (4KiB)=585,000@Q16
<b>Write IOPS</b>	Random Write IOPS (4KiB, Q=16)=550,000 Max Random Write IOPS (4KiB)=550,000@Q16
<b>Power (Watts)</b>	13
<b>Plug type</b>	Hot pluggable
<b>Height</b>	15mm
<b>Platform supported</b>	HPE Storage Platforms
<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.

[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, Reliability Demonstration Test (RDT) spec, CSI integration test spec and pilot test requirements. Test was conducted in May 2017.



[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.

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