Hewlett Packard Enterprise

# HPE 400GB NVME GEN4 HIGH PERFORMANCE LOW LATENCY WRITE INTENSIVE SFF SCN U.2 P5800X SSD (P51464-B21)

## Server Solid State Drives



## 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 400GB NVMe Gen4 High Performance Low Latency Write Intensive SFF SCN U.2 P5800X SSD

| | |
|---|---|
| **Product Number** | P51464-B21 |
| **Lifetime Writes** | 73,000 |
| **Endurance DWPD (Drive Writes Per Day)** | 100 |
| **Read IOPS** | Random Read IOPS (4KiB, Q=16)=1,100,000 Max Random Read IOPS (4KiB)=1,390,000@Q256 |
| **Write IOPS** | Random Write IOPS (4KiB, Q=16)=900,000 Max Random Write IOPS (4KiB)=1,040,000@Q32 |
| **Power (Watts)** | 15 |
| **Plug Type** | Hot pluggable |
| **Height** | 15mm |
| **Warranty** | HPE Solid State Drives and Add-In Cards have a standard 3/0/0 warranty<br>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 POINTNEXT SERVICES

HPE Pointnext Services brings together technology and expertise to help you drive your business forward and prepare for whatever is next.

### Operational Services from HPE Pointnext Services

HPE Pointnext Tech Care provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

HPE Pointnext Complete Care is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment, and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts.

**HPE Integration and Performance Services** help you customize your experience at any stage of your product lifecycle with a menu of services based on individual needs, workloads, and technologies.

- Advise, design, and transform
- Deploy
- Integrate and migrate
- Operate and improve
- Financial Services
- Greenlake Management Services
- Retire and sanitize
- IT Training and personal development

### Other related services

HPE Education Services delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation. Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

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

# HPE GREENLAKE

HPE Greenlake is HPE's market-leading IT 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. HPE GreenLake delivers public cloud services and infrastructure for workloads 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.

[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.

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

Chat online

**Chat now (sales)**

**Call now**

**Buy now**

**Share now**

**Get updates**

Hewlett Packard Enterprise

© Copyright 2022 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.

Microsoft is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries. All other third-party trademark(s) is/are property of their respective owner(s).

Image may differ from the actual product
PSN1014651807UKEN, July, 2022.