



# HPE 960GB SATA 6G MIXED USE SFF SC S4610 SSD (P05980-H21)

## Server Solid State Drives

### WHAT'S NEW

- HPE 480 GB, 960 GB, 1.92 TB, 3.84 TB SATA 6G Mixed Use SFF (2.5-inch) BC, Multi Vendor SSDs
- HPE 480 GB, 3.84 TB SATA 6G Mixed Use SFF (2.5-inch) BC, S4610 SSDs
- HPE 960 GB, 1.92 TB SATA 6G Mixed Use SFF (2.5-inch) BC, SED, 5300M SSDs

### OVERVIEW

HPE SATA Mixed Use (MU) Solid State Drives (SSD) deliver enterprise features at an affordable price. HPE SATA MU SSDs are engineered for greater performance and endurance for applications requiring a more balanced mix of high random read and write IOPS performance such as database, virtualization, cloud computing and transactional applications.

HPE Value SAS 12G SSDs offer higher performance than 6G SATA SSDs at a lower cost than traditional 12G SAS SSDs, enabling you to improve total cost of ownership (TCO) with affordable HPE Value SAS SSDs.

HPE SSDs are backed by over 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. You can also monitor the lifespan of your SSD with HPE SmartSSD Wear Gauge to determine if any drives are at risk of failure.

## FEATURES

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

HPE SATA Mixed Use Solid State Drives are ideal for big data analytics, cloud computing, active archiving, database applications, and data warehousing.

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.

12 Gb/s SAS, 6 Gb/s SATA, NVMe, M.2, and M.2 Enablement Kits.

### **HPE Value SAS SSDs Deliver Twice the Interface Speed of SATA SSDs, Improving Workload Performance.**

HPE Value SAS solid state drives (SSDs) support 12 Gb/s, versus SATA SSDs at 6 Gb/s.

Optimized for enterprise application workloads, HPE Value SAS SSDs allow you to do more work with fewer servers by improving and consolidating transactional database workloads.

HPE Value SAS SSDs allow you to reduce operating costs for storing, powering and maintaining servers, as well as reducing your data center footprint.

Available in a variety of storage capacities, HPE Value SAS SSDs are the perfect choice for supporting read-intensive and mixed-use applications.

### **HPE Multi Vendor SSDs Offer Longer SKU Lifecycles and Immediate Availability on SATA SSDs**

HPE enhanced its extensive SSD portfolio with a Multi Vendor SSD SKU offering that allows for extended SKU lifecycles, immediately available supply and preferably priced SATA SSDs.

HPE Multi Vendor SSD offering ensures the SATA SSD selected, delivers the minimum level of performance published, or better.



**Technical specifications****HPE 960GB SATA 6G Mixed Use SFF SC S4610 SSD**

<b>Product Number (SKU)</b>	P05980-H21
<b>Lifetime Writes</b>	6,000
<b>Endurance DDPD (Drive Writes Per Day)</b>	3.4
<b>Read IOPS</b>	Random Read IOPS (4KiB, Q=16)=68,000 Max Random Read IOPS (4KiB)=76,000@Q32
<b>Write IOPS</b>	Random Write IOPS (4KiB, Q=16)=41,000 Max Random Write IOPS (4KiB)=43,000@32
<b>Power (Watts)</b>	3.23
<b>Plug Type</b>	Hot pluggable
<b>Height</b>	7mm
<b>Product Dimensions (metric)</b>	21.92 x 22.86 x 14.61 cm
<b>Weight</b>	0.68 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.



Most, if not all IT organizations are on a digital transformation journey — each at a different stage. With over 11,000 IT projects conducted and 1.4 million customer interactions each year, [HPE Pointnext Services](#)' 15,000+ experts and its vast ecosystem of solution partners and channel partners are uniquely able to help you at every stage of your digital transformation. We bring together technology and expertise to help you drive your business forward and prepare for whatever is next.

Advisory and Professional Services help you accelerate your digital transformation. [Operational Services](#) help you remove complexity and respond rapidly to business demands.

### **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 Datacenter Care](#)** helps modernize and simplify IT operations. Partner with an assigned account team, access technical expertise, an enhanced call experience gives you priority access, choose hardware and software support, implement proactive monitoring to help stay ahead of issues, and access HPE IT best practices and IP.
- **[HPE Proactive Care](#)** offers an enhanced call experience and helps reduce problems with personalized proactive reports and advice. This also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.). [Read more](#)
- **[HPE Foundation Care](#)** helps when there is a problem and has a choice of response levels. Collaborative software support is included and provides troubleshooting help for ISVs running on your server. [Read more](#).

### **Other related services**

**[Defective Media Retention](#)** is optional and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

**[HPE Service Credits](#)** offers a menu of technical services, access additional resources, and specialist skills.

**[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.



For additional technical information, available models and options, please reference the [QuickSpecs](#)

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

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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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