



**Hewlett Packard**  
Enterprise

# HPE 960GB SAS 12G READ INTENSIVE SFF SC SS540 SSD (P21139-H21)

## Server Solid State Drives



### WHAT'S NEW

- HPE 960 GB, 1.92 TB, 3.84 TB, 7.68 TB, 15.3 TB SAS 12G Read Intensive SFF (2.5-inch) SC, 3-year Warranty SSDs

### OVERVIEW

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

HPE 12Gb SAS Read Intensive (RI) Solid State Drives (SSDs) deliver enterprise features at an affordable price for applications requiring high random read IOPS performance. SAS RI SSDs transfer data at full duplex (bidirectional) allowing greater I/O bandwidth to alleviate bottlenecks at twice the 6Gb interface of SATA drives.

HPE 12Gb SAS RI SSDs are best suited for mission-critical enterprise applications requiring a strong blend of high read IOPS and low latency for workloads high in reads such as read caching, social media, web servers and boot/swap.

HPE 12Gb Value SAS RI SSDs offer a significant performance boost over SATA SSDs with roughly twice the read IOPS and are lower in cost than traditional SAS SSD drives. HPE 12Gb Value SAS is a single-ported version of enterprise SAS, providing slightly reduced performance in exchange for being price competitive to enterprise SATA SSDs.

## FEATURES

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

HPE 12Gb SAS Read Intensive (RI) Solid State Drives (SSDs) are ideal for read caching, social media, web servers and boot/swap.

Achieve high IOPS and lower latency 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 12Gb SAS SSDs and HPE 12Gb Value SAS SSDs

### **HPE Value SAS SSDs Offer Twice the IOPS of SATA SSDs, Significantly Improving Workload Performance**

HPE Value SAS Solid State Drives (SSDs) support 12 Gbs, versus SATA SSDs at 6 Gbs

Optimized for enterprise application workloads, HPE 12Gb Value SAS SSDs allow you to do more work with fewer servers by improving and consolidating transactional database workloads

HPE 12Gb 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 12Gb Value SAS SSDs are the perfect choice for supporting read intensive and mixed use applications



**Technical specifications****HPE 960GB SAS 12G Read Intensive SFF SC SS540 SSD**

<b>Product Number (SKU)</b>	P21139-H21
<b>Lifetime Writes</b>	1,712
<b>Endurance DWPD (Drive Writes Per Day)</b>	1
<b>Read IOPS</b>	Random Read IOPS (4KiB, Q=16)= 119,000 Max Random Read IOPS (4KiB)=205,000@Q256
<b>Write IOPS</b>	Random Write IOPS (4KiB, Q=16)= 90,000 Max Random Write IOPS (4KiB)=90,000@Q128
<b>Power (Watts)</b>	6.58
<b>Plug Type</b>	Hot Pluggable
<b>Height</b>	15mm
<b>Minimum dimensions (H x W x D)</b>	12.93 x 22.86 x 14.61 cm
<b>Weight</b>	0.5 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 POINTNEXT

Access expertise at every step of your IT journey with [HPE Pointnext Services](#). [Advisory Services](#) focuses on your business outcomes and goals, to design your transformation and build a roadmap tuned to your unique challenges. Our [Professional](#) and [Operational Services](#) help speed up time-to-production and keep your IT stable and reliable.

### Operational Services from HPE Pointnext Services

- [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](#) provides comprehensive training designed to expand the skills of your IT staff and keep them up to speed with the latest technologies.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

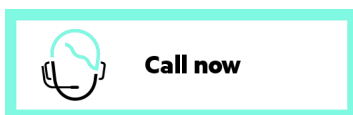
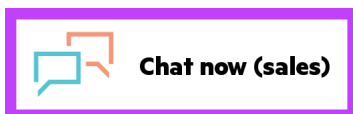
## HPE GREENLAKE

[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.

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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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[PSN1012902504UKEN](#), August 10, 2020.