



HPE 480GB SATA 6G READ INTENSIVE M.2 2280 5300B SSD (P19890-B21)

Server Solid State Drives



OVERVIEW

Do your read-intensive workloads need consistently high performance from a Solid State Drive with low latency and reduced power consumption?

HPE SATA M.2 Read Intensive (RI) Solid State Drives (SSDs) deliver enterprise features and performance at an affordable price for workloads high in reads such as boot/swap, web servers, and read caching. Hewlett Packard Enterprise SSDs are backed by over 3 million hours of testing and qualification in various environments, certifying reliable, high performing

drives. [1] HPE Digitally Signed Firmware prevents unauthorized access to your data by verifying that drive firmware comes from a trusted source. HPE SATA M.2 RI SSDs achieves higher Input/Output Per Second (IOPs) to enhance the performance of your data center, giving you faster access to data with excellent latency. With reduced power consumption, it provides improved IOPS/W versus rotating media and reduces datacenter cooling costs.

FEATURES

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

HPE SATA M.2 Read Intensive Solid State Drives maintain data accuracy with full data-path error detection and by using self-describing LEDs to reduce drive activity confusion.

Choose from a broad portfolio of enhanced solutions in a wide variety of capacities.

Accelerate Workload Performance

HPE SATA M.2 Read Intensive Solid State Drives achieve higher Input/Output Per Second (IOPs) to enhance the performance of your data center.

Experience modern technology and increased performance of SATA M.2 SSDs, giving you faster access to data with excellent latency.

Deliver High Reliability in your Data Center

HPE SATA M.2 Read Intensive Solid State Drives provide compatibility with the HPE ProLiant Server series and HPE controllers for consistent, reliable performance.

HPE Solid State Drives are rigorously tested 3 million hours in various environments to achieve the quality standards you need. [1]

HPE Digitally Signed Firmware prevents unauthorized access and malicious attacks to your data by verifying that drive firmware comes from a trusted source.

Deliver high availability with power loss protection that continues to protect your data even when the datacenter loses power.

Provides Simplicity and Lower Total Cost of Ownership

HPE SATA M.2 Read Intensive Solid State reduce power consumption, provide improved IOPS/W versus rotating media, and reduce datacenter cooling costs.

With available management tools, you can prevent data loss and monitor SSD life with HPE SmartSSD Wear Gauge compatibility.



Technical specifications

HPE 480GB SATA 6G Read Intensive M.2 2280 5300B SSD

Product Number (SKU)	P19890-B21
Lifetime Writes	1,324
Endurance DWPD (Drive Writes Per Day)	1.5
Read IOPS	Random Read IOPS (4KiB, Q=16)=65,000 Max Random Read IOPS (4KiB)=76,000@Q64
Write IOPS	Random Write IOPS (4KiB, Q=16)=38,000 Max Random Write IOPS (4KiB)=39,500@Q256
Power (Watts)	2.5
Plug Type	Non-Hot Pluggable
Height	2280 M.2
Product Dimensions (metric)	10.8 x 15.88 x 3.76 cm
Weight	0.5 kg
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.



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](#) 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.

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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[1] HPE internal lab testing. 3 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 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.

Image may differ from the actual product
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