Data sheet

HPE SATA M.2 Read Intensive Solid State Drives

HPE 480GB SATA 6G Read Intensive M.2 Multi Vendor SSD (P47818-K21)

What's new

- Offering 480 GB SATA 6G Read Intensive M.2 SSDs.

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. 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 achieve 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.

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 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 Drives reduce power consumption, provide improved IOPS 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 Multi Vendor SSD
Product Number	P47818-K21
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
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.
Platform supported	HPE Storage Platforms, see QuickSpecs for more information
Capacity	480 GB
Drive form factor	M.2
Interface	SATA
Workload	Read Intensive

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.

Advisory & Professional 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.

Support 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.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

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

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

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

For additional technical information, available models and options, please reference the QuickSpecs

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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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