

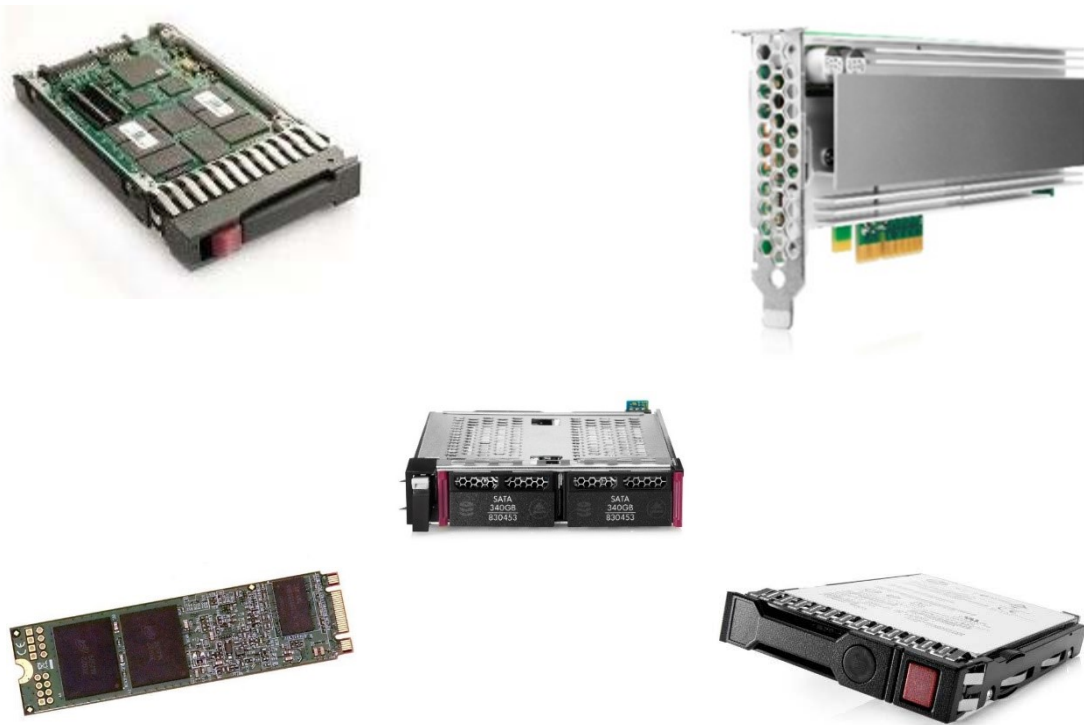
Overview

HPE Solid State Disk Drives

(SSD, AICs, M.2s and M.2 EKits)

HPE Solid State Drives (SSDs), Add-In-Cards, M.2s and M.2 Enablement Kits (EKits) are based upon industry leading NAND Flash technology, which delivers exceptional performance and endurance to support a growing broad spectrum of demanding applications with varying workload performance requirements.

These storage devices offer better I/O latency & more power efficient solutions when compared with traditional rotating (HDD) media, while also fitting seamlessly into existing HPE server & storage infrastructures, and are available in a number of form factors including: Small Form Factor (SFF), Large Form Factor (LFF), M.2, and PCIe/NVME Add-In-Cards (AIC).



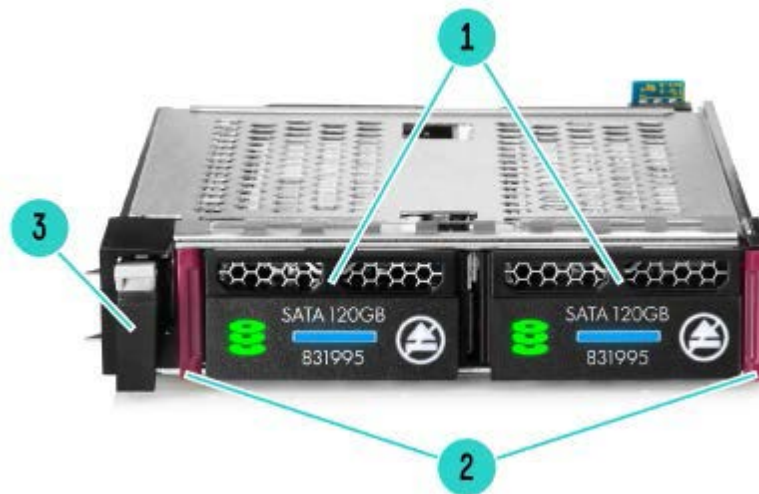
Overview

HPE M.2 Enablement Kits

M.2 Enablement Kit with Small Form Factor Flash Adapter with Dual uFF SSDs

The HPE M.2 Enablement Kit is a Small Form Factor (SFF) Flash Adapter that packages two 6G SATA M.2 Micro Form Factor (uFF) Sleds in a Dual Domain SFF Smart Drive bay which enables customers to install twice as many drives in an HPE server module when compared to standard SFF Smart Drive bays.

The HPE M.2 Enablement Kit with Small Form Factor Flash Adapter with Dual uFF SSDs increases flexibility, availability and serviceability for storage resources inside the server. The M.2 Enablement Kit with Small Form Factor Flash Adapter with Dual uFF SSDs option increases the composability of the server by enabling configurations that support a broader range of applications and workloads by providing up to 2 drives (2 x HPE SFF Dual uFF SSD options) within 1 drive bay, for example for higher drive performance, or when an on-line spare drive is needed. When higher application availability is required, customers can separate RAID1 mirror boot drives from the application. DATA availability is increased by being able to configure a RAID5 set, which also means more usable capacity.



Item Description

- 1) uFF SATA Drive Modules (hot pluggable)
- 2) uFF Drive Ejection Latches
- 3) Adapter Ejection Release Latch

What's New?

New Solid State Drives & Drive Kit(s):

New Option KIT SKUs

- P04474-B21 - HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
- P04476-B21 - HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
- P04478-B21 - HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
- P04480-B21 - HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
- P04482-B21 - HPE 7.68TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
- P04499-B21 - HPE 480GB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD
- P04501-B21 - HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD
- P06584-B21 - HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
- P06586-B21 - HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
- P06588-B21 - HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
- P06590-B21 - HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD

Overview

- P06592-B21 - HPE 15.3TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
 - P07922-B21 - HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
 - P07924-B21 - HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD
 - P07926-B21 - HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
 - P07928-B21 - HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD
 - P07930-B21 - HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
 - P07932-B21 - HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD
 - P07934-B21 - HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD
 - P07936-B21 - HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD
-

Overview

HPE Solid State Drive Selector Tool – a web-based tool that dramatically reduces the time and complexity of selecting the right SSD for your demanding workloads. <http://ssd.hpe.com>.

Dramatically reduces the time to select the right SSD for your HPE Server

- Recommends the most appropriate SSDs for specific customer workloads
- Reduces selection time and eliminates complexity; sort by server model, price, & performance
- Ideal for customers, HPE Sales, and HPE channel partners
- Simple, web-based tool; user-friendly interface

Firmware Updates:

- HPE Digitally Signed Firmware Prevents unauthorized access to your data by providing the security and assurance that drive firmware comes from a trusted source and protects against malicious attacks. Digitally Signed Firmware is indicated by “DS” in the SKU description.
- For advanced data protection and encryption, customers should consider HPE Smart Array Controllers with HPE Smart Array Secure SR Encryption. It is a controller-based data encryption solution for HPE servers that protects data-at-rest on all SAS and SATA drives connected directly to the controller. This solution meets stringent compliance regulations such as HIPAA, FIPS, and Sarbanes-Oxley.

Minimally Supported Operating Systems for all SSDs:

- Microsoft Windows Server 2008 (x86 and x64) SP2 and R2 w/SP1
 - Standard Edition
 - Datacenter
 - Enterprise Edition
 - Web Server
 - Embedded
- Microsoft Windows 2012 Server (x64) R2
- Microsoft Windows 2016 (RTM)
- Red Hat Enterprise Linux 6 (EM64T/AMD64)
- Red Hat Enterprise Linux 7 (EM64T/AMD64)
- SLES 11 (EM64T/AMD64) (includes XEN)
- SLES 12 (EM64T/AMD64) (includes XEN)
- VMware ESXi 5.5
- VMware ESXi 6.0
- Windows Server 2019

Overview

HPE Storage Options – SSD Portfolio Alignment

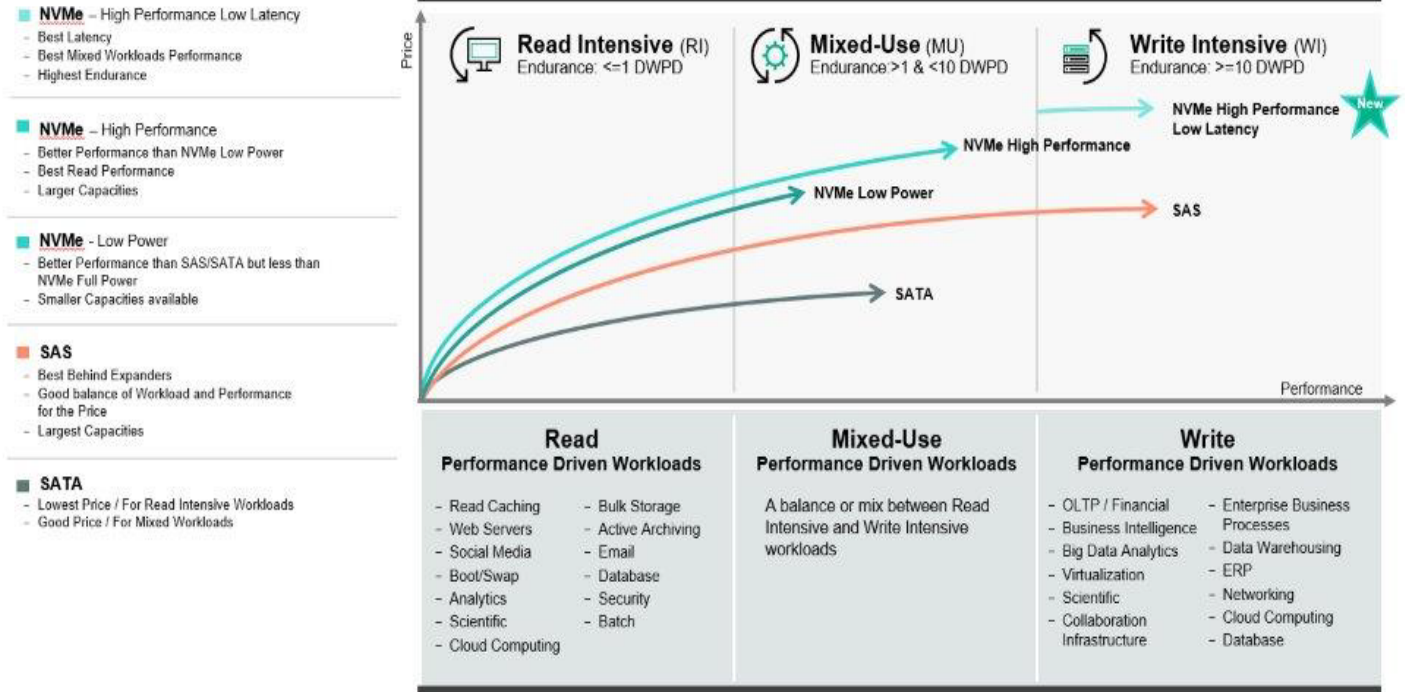


Figure 1 – SSD Portfolio Alignment

Overview

Our Solid State product categories include Solid State Drives, or SSDs.

We define enterprise-class as products that include full data path error detection and surprise power loss protection. In addition, our SSDs have HPE SmartSSD Wear Gauge support, which provides diagnostic information and reports on the health of any given drive.

HPE Enterprise SSDs are available in three categories based on the customer's application and workload level: Read Intensive (RI), Mixed Use (MU), and Write Intensive (WI). These categories indicate the number of drive writes per day (DWPD1) that you can expect from the drive. (DWPD is the maximum number of 4K host writes to the entire drive capacity of the SSD per day over a five-year period).

Workloads such as Read caching, Web Servers, Social Media, and Boot are more Read Performance driven. Workloads such as Business Intelligence, Big Data Analytics, Virtualization tend to be more Write Performance driven.

Our Read Intensive SSDs are typically focused on Read Performance with an Endurance less than or equal to 1 full drive write per day.

Our Write Intensive SSDs are focused on Write Performance with an Endurance of ≥ 10 full drive writes per day (DWPD).

As an example, if we have an 800GB Write Intensive SSD with an endurance of 10 Drive Writes per Day, it means that customers can write to the entire 800GB capacity of that SSD 10 times per day, and the drive will last for 5 years. Positioned in-between RI and WI, we have products with Balanced Read and Write Performance that we call Mixed Use (MU), with an Endurance of typically ~ 3 DWPD.

All of our Solid State products have performance that can be 80x or more when compared to rotating hard disk drives. Today's NVMe SSDs connect directly on the PCIe bus with the processor and memory. They are used in applications that require the highest performance, such as Online Transaction Processing in the financial industry. Low Latency NVMe SSDs are positioned in the Write Intensive category and are uniquely positioned for workloads that require the lowest latency, best QOS, and high performance.

Using the above figures along with our [**HPE SSD Selector Tool**](#) you can quickly determine what SSD/AIC solution might best meet your needs. You can also compare specific capacity, performance attributes, and server compatibility.

Standard Features

What is a SSD?

An enduring data storage device utilizing NAND (negative-AND) semiconductor technology to store and access data which is volatile without the aid of an auxiliary power source.

SSD Quality

Today's businesses are seeing larger, more complex applications, coupled with an increasing amount of mission-critical and transaction processing data demand. In this environment, storage has become a critical component, significantly defining requirements for both systems reliability and performance. This is why HPE drives undergo a rigorous qualification process to ensure functionality and eliminate firmware and OS incompatibilities.

Integration

Many issues customers have with third party drives are "simple" integration issues. When buying from another supplier, there is no guarantee that a drive has been correctly set for proper operation with ProLiant servers and storage systems. These incompatibilities can create problems in configuration, can rob your system of performance, or at their worst, can cause you to lose data. HPE drives are specifically designed and tested for flawless operation in your HPE equipment. The integration of solid state drives in HPE systems means that associated components are right for your ProLiant server.

Support Matrix

Please see the following URL for the latest list of supported servers and enclosures:

<https://www.hpe.com/us/en/servers.html>

Product Category

HPE Enterprise SSDs are available in three categories based on workload level: Read Intensive (RI), Mixed Use (MU), and Write Intensive (WI). These categories indicate the number of drive writes per day (DWPD1) that you can expect from the drive. (DWPD is the maximum number of 4K host writes to the entire drive capacity of the SSD per day over a five-year period).

Maximum Usage Limitations

NAND Flash devices use semiconductor technology that has a finite number of data that can be written to the device, defined as the Maximum Usage Limit, commonly called "Write Endurance". Write Endurance - is measured while running 100% random 4KiB writes across the entire SSD.

Drive Writes Per Day (DWPD) - Workload environment is based on 100% random 4KiB writes for five (5) years, which is the maximum amount of data that can be written to the device before reaching the device's write endurance limit.

HPE Solid State Drives (SSDs) are equipped with tools that can report the amount of lifetime remaining. Introducing HPE SMARTSSD Wear Gauge™. To take advantage of SMARTSSD Wear Gauge™, Smart Array Firmware version 5.0 or greater is required and HPE Array Configuration Utility (ACU) or HPE Diagnostic Utility (ADU) must be running.

Simple Network Management Protocol (SNMP) Storage Agents for both Microsoft® Windows® and Linux provide status and condition updates through traps, OS event logs and the HPE System Management Homepage:

<https://www.hpe.com/us/en/product-catalog/detail/pip.hp-system-management-homepage-software.344313.html>

The HPE SMARTSSD Wear Gauge™ requires a Smart Array or Smart HBA controller listed below.

Standard Features

- HPE Smart Array PX1X Controller Series or newer
- HPE Smart HBA PX4X Controller Series
- HPE Dynamic Smart Array BX2Xi Controller Series or newer
- HPE Dynamic Smart Array B320i Controller

NOTE: HPE Direct Connect to the HPE Smart Array B110i SATA RAID Controller is not currently supported by the above noted tool.

Standard Features

Data Retention

Data Retention is the period of time for retaining the data in the NAND once the maximum rated endurance level has occurred. These SSD's are rated for 3 months if no power is applied once the SSD has reached maximum rated write endurance.

Warranty

SSD & AIC Standard 3/0/0 warranty; Customer Self Repair (CSR) subject to maximum usage limitations. Maximum usage limit: This 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.

NOTE: In cases where an M.2 SSD is used in conjunction with a Server Cartridge the Warranty includes 3-Year Parts, 3-Year Labor, 3-Year (3/3/3) Onsite support for that option only.

Service and Support

Service and Support

HPE Technology Services for Industry Standard Servers

HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability powered by a rich portfolio of consulting and support services designed to add value to our core products and solutions connect to Hewlett Packard Enterprise to help prevent problems and solve issues faster. Our support technology lets you to tap into the knowledge of millions of devices and thousands of experts to stay informed and in control, anywhere, any time.

Protect your business beyond warranty with HPE Support Services

HPE support services offer complete care and support expertise with committed response choices that are designed to meet your IT and business needs.

NOTE: HPE Solid State Drives are supported as a part of the HPE Server Infrastructure. No separate Support Services are needed to be purchased.

Connect your devices to HPE

Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Achieve up to 77%¹ reduction in down time, near 100%² diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7 monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization.

All of these benefits are already available to you with your server storage and networking products, securely connected to HPE support.

1. IDC Whitepaper
 2. HPE CSC Reports 2014-2015
-

HPE Support Center

Personalized online support portal with access to information, tools and experts to support HPE business products. Submit support cases online, chat with Hewlett Packard Enterprise experts, access support resources or collaborate with peers. Learn more [HPE Support Center](#)

HPE Support Center Mobile App allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime.

HPE Insight Remote Support and HPE Support Center are available at no additional cost with a Hewlett Packard Enterprise warranty, HPE Support Services or HPE contractual support agreement.

NOTE: HPE Support Center Mobile App above is subject to local availability.

Parts and materials

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

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.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.

Service and Support

Warranty / Service Coverage

For ProLiant servers and storage systems, the service on the main product covers HPE-branded hardware options not designated by Hewlett Packard Enterprise as requiring separate coverage, that are qualified for the server, purchased at the same time or afterward and internal to the enclosure. These items will be covered at the same service level and for the same coverage period as the server unless the maximum supported lifetime and/or the maximum usage limitation has been reached.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction. It does not apply Disk or SSD/Flash Drives that have not failed. SSD/Flash Drives that are specified by Hewlett Packard Enterprise as consumable parts and/or that have reached maximum supported lifetime and/or the maximum usage limits as set forth in the manufacturer's operating manual, the product QuickSpecs, or the technical data sheet are not eligible for the defective media retention service feature option.

Subject to: Maximum supported lifetime: This is a period in years set to equal the warranty for the specific drive. After this period no further service coverage will be available for the drive. Maximum usage limit: This is the maximum amount of data that can be written to the drive. Drives that have reached this limit will not be eligible for services coverage.

Additional Notes Regarding Usage and Wear:

- DWPD (Drive-Writes-Per Day) ->Full drive writes per day for 5 years. Based on 100% Random Writes (KiB).
- HPE Enterprise SSDs deliver: Full data path error detection, surprise power loss protection and Smart SSD Wear Gauge support.

For more information

To learn more on services for HPE ESSN Options, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Or visit:

<https://www.hpe.com/us/en/product-catalog/servers/proliant-servers.html> or

<https://www.hpe.com/us/en/integrated-systems/bladesystem.html>

Supporting Helpful Links

<http://www.hpe.com/info/rackandpower>

<http://www.hpe.com/info/poweradvisor>

<http://www.hpe.com/info/infrastructurearchitect>

<https://www.hpe.com/us/en/storage/entry-level.html>

Also:

Take control of your data - A guide to understanding storage technologies.

<http://www.hpe.com/h20195/V2/getpdf.aspx/4AA4-7667ENW.pdf?ver=1.0>

Technical Specifications

| SATA Interface- (Capacity, Workload, Carrier...) | | | | | | | | | | |
|--|---|----------|---------------|----------------|-------------|-----------|--------------|--------------------------------|------------|---|
| HPE Option Kit SKU | Long Description | Capacity | Workload Type | Interface Type | Form Factor | Plug Type | Carrier Type | Digitally Signed Firmware (DS) | Flash Type | Server Gen Supported (Select Platforms) |
| 875483-B21 | HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 240 | MU | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| 875488-B21 | HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD | 240 | MU | SATA | M.2 | #N/A | #N/A | Yes | TLC | Gen9 & 10 |
| 880295-B21 | HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 240 | MU | SATA | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| P03594-B21 | HPE 240GB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 240 | MU | SATA | SFF | Hot Plug | RW | Yes | MLC | Gen10 |
| P03606-B21 | HPE 240GB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 240 | MU | SATA | SFF | Hot Plug | RW | Yes | MLC | Gen10 |
| 872344-B21 | HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 480 | MU | SATA | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 872346-B21 | HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 480 | MU | SATA | LFF | Hot Plug | SCC | Yes | MLC | Gen9 & 10 |
| 875470-B21 | HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 480 | MU | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| 875490-B21 | HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD | 480 | MU | SATA | M.2 | #N/A | #N/A | Yes | TLC | Gen9 & 10 |
| 877776-B21 | HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 480 | MU | SATA | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| P03596-B21 | HPE 480GB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 480 | MU | SATA | SFF | Hot Plug | RW | Yes | MLC | Gen10 |
| P06607-B21 | HPE Dual 240GB SATA 6G Mixed Use M.2 - UFF to SFF SCM 3yr Wty Digitally Signed Firmware SSD | 480 | MU | SATA | SFF | Hot Plug | SCM | Yes | MLC | Gen9 & 10 |
| P07922-B21 | HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 480 | MU | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| P07924-B21 | HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 480 | MU | SATA | LFF | Hot Plug | SCC | Yes | TLC | Gen9 & 10 |
| 872348-B21 | HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 960 | MU | SATA | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |

Technical Specifications

| SATA Interface– (Capacity, Workload, Carrier...) | | | | | | | | | | |
|--|--|----------|---------------|----------------|-------------|-----------|--------------|--------------------------------|------------|---|
| HPE Option Kit SKU | Long Description | Capacity | Workload Type | Interface Type | Form Factor | Plug Type | Carrier Type | Digitally Signed Firmware (DS) | Flash Type | Server Gen Supported (Select Platforms) |
| 872350-B21 | HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 960 | MU | SATA | LFF | Hot Plug | SCC | Yes | MLC | Gen9 & 10 |
| 875474-B21 | HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 960 | MU | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| 875492-B21 | HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD | 960 | MU | SATA | M.2 | #N/A | #N/A | Yes | TLC | Gen9 & 10 |
| 877782-B21 | HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 960 | MU | SATA | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 877784-B21 | HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 960 | MU | SATA | LFF | Hot Plug | SCC | Yes | MLC | Gen9 & 10 |
| P03598-B21 | HPE 960GB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 960 | MU | SATA | SFF | Hot Plug | RW | Yes | MLC | Gen10 |
| P03691-B21 | HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 960 | MU | SATA | LFF | Hot Plug | SCC | Yes | MLC | Gen10 |
| P07926-B21 | HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 960 | MU | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| P07928-B21 | HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 960 | MU | SATA | LFF | Hot Plug | SCC | Yes | TLC | Gen9 & 10 |
| 872352-B21 | HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,920 | MU | SATA | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 875478-B21 | HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,920 | MU | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| 875480-B21 | HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 1,920 | MU | SATA | LFF | Hot Plug | SCC | Yes | TLC | Gen9 & 10 |
| 877788-B21 | HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,920 | MU | SATA | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 877790-B21 | HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 1,920 | MU | SATA | LFF | Hot Plug | SCC | Yes | MLC | Gen9 & 10 |
| P03600-B21 | HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 1,920 | MU | SATA | SFF | Hot Plug | RW | Yes | MLC | Gen10 |

Technical Specifications

| SATA Interface– (Capacity, Workload, Carrier...) | | | | | | | | | | |
|--|---|----------|---------------|----------------|-------------|-----------|--------------|--------------------------------|------------|---|
| HPE Option Kit SKU | Long Description | Capacity | Workload Type | Interface Type | Form Factor | Plug Type | Carrier Type | Digitally Signed Firmware (DS) | Flash Type | Server Gen Supported (Select Platforms) |
| P03608-B21 | HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 1,920 | MU | SATA | SFF | Hot Plug | RW | Yes | MLC | Gen10 |
| P03610-B21 | HPE 1.92TB SATA 6G Mixed Use LPC (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 1,920 | MU | SATA | LFF | Hot Plug | LPC | Yes | MLC | Gen10 |
| P03689-B21 | HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 1,920 | MU | SATA | LFF | Hot Plug | LPC | Yes | MLC | Gen10 |
| P07930-B21 | HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,920 | MU | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| P07932-B21 | HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 1,920 | MU | SATA | LFF | Hot Plug | SCC | Yes | TLC | Gen9 & 10 |
| P07934-B21 | HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 1,920 | MU | SATA | LFF | Hot Plug | LPC | Yes | TLC | Gen9 & 10 |
| 868814-B21 | HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 240 | RI | SATA | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 875503-B21 | HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 240 | RI | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| 875507-B21 | HPE 240GB SATA 6G Read Intensive SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 240 | RI | SATA | SFF | Hot Plug | RW | Yes | TLC | Gen9 & 10 |
| 877740-B21 | HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 240 | RI | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| P04556-B21 | HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 240 | RI | SATA | SFF | Hot Plug | SC | Yes | MLC | Gen10 |
| 868818-B21 | HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 480 | RI | SATA | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |

Technical Specifications

| SATA Interface- (Capacity, Workload, Carrier...) | | | | | | | | | | |
|--|--|----------|---------------|----------------|-------------|-----------|--------------|--------------------------------|------------|---|
| HPE Option Kit SKU | Long Description | Capacity | Workload Type | Interface Type | Form Factor | Plug Type | Carrier Type | Digitally Signed Firmware (DS) | Flash Type | Server Gen Supported (Select Platforms) |
| 869056-B21 | HPE 480GB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 480 | RI | SATA | LFF | Hot Plug | LPC | Yes | MLC | Gen9 & 10 |
| 875498-B21 | HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD | 480 | RI | SATA | M.2 | #N/A | #N/A | Yes | TLC | Gen9 & 10 |
| 875509-B21 | HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 480 | RI | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| 877746-B21 | HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 480 | RI | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| 877748-B21 | HPE 480GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 480 | RI | SATA | LFF | Hot Plug | SCC | Yes | TLC | Gen9 & 10 |
| P04474-B21 | HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 480 | RI | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| P04499-B21 | HPE 480GB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 480 | RI | SATA | LFF | Hot Plug | LPC | Yes | TLC | Gen9 & 10 |
| P04560-B21 | HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 480 | RI | SATA | SFF | Hot Plug | SC | Yes | MLC | Gen10 |
| P06194-B21 | HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 480 | RI | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| 868822-B21 | HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 960 | RI | SATA | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 875500-B21 | HPE 960GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD | 960 | RI | SATA | M.2 | #N/A | #N/A | Yes | TLC | Gen9 & 10 |
| 875511-B21 | HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 960 | RI | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |

Technical Specifications

| SATA Interface- (Capacity, Workload, Carrier...) | | | | | | | | | | |
|--|--|----------|---------------|----------------|-------------|-----------|--------------|--------------------------------|------------|---|
| HPE Option Kit SKU | Long Description | Capacity | Workload Type | Interface Type | Form Factor | Plug Type | Carrier Type | Digitally Signed Firmware (DS) | Flash Type | Server Gen Supported (Select Platforms) |
| 877752-B21 | HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 960 | RI | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| 877754-B21 | HPE 960GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 960 | RI | SATA | LFF | Hot Plug | SCC | Yes | TLC | Gen9 & 10 |
| 877756-B21 | HPE 960GB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 960 | RI | SATA | LFF | Hot Plug | LPC | Yes | TLC | Gen9 & 10 |
| P04476-B21 | HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 960 | RI | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| P04564-B21 | HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 960 | RI | SATA | SFF | Hot Plug | SC | Yes | MLC | Gen10 |
| P06196-B21 | HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 960 | RI | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| P06609-B21 | HPE Dual 480GB SATA 6G Read Intensive M.2 - UFF to SFF SCM 3yr Wty Digitally Signed Firmware SSD | 960 | RI | SATA | SFF | Hot Plug | SCM | Yes | MLC | Gen9 & 10 |
| 868826-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,920 | RI | SATA | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 875513-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,920 | RI | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| 877758-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,920 | RI | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| 877760-B21 | HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 1,920 | RI | SATA | LFF | Hot Plug | SCC | Yes | TLC | Gen9 & 10 |

Technical Specifications

| SATA Interface– (Capacity, Workload, Carrier...) | | | | | | | | | | |
|--|---|----------|---------------|----------------|-------------|-----------|--------------|--------------------------------|------------|---|
| HPE Option Kit SKU | Long Description | Capacity | Workload Type | Interface Type | Form Factor | Plug Type | Carrier Type | Digitally Signed Firmware (DS) | Flash Type | Server Gen Supported (Select Platforms) |
| 877762-B21 | HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 1,920 | RI | SATA | LFF | Hot Plug | LPC | Yes | TLC | Gen9 & 10 |
| P03602-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 1,920 | RI | SATA | SFF | Hot Plug | RW | Yes | MLC | Gen10 |
| P04478-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,920 | RI | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| P04501-B21 | HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 1,920 | RI | SATA | LFF | Hot Plug | LPC | Yes | TLC | Gen9 & 10 |
| P04566-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,920 | RI | SATA | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| P06198-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,920 | RI | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| 868830-B21 | HPE 3.8TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3,840 | RI | SATA | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 877764-B21 | HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3,840 | RI | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| P03604-B21 | HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 3,840 | RI | SATA | SFF | Hot Plug | RW | Yes | MLC | Gen10 |
| P04480-B21 | HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3,840 | RI | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| P04570-B21 | HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3,840 | RI | SATA | SFF | Hot Plug | SC | Yes | MLC | Gen10 |

Technical Specifications

| SATA Interface- (Capacity, Workload, Carrier...) | | | | | | | | | | |
|--|--|----------|---------------|----------------|-------------|--------------|--------------|--------------------------------|------------|---|
| HPE Option Kit SKU | Long Description | Capacity | Workload Type | Interface Type | Form Factor | Plug Type | Carrier Type | Digitally Signed Firmware (DS) | Flash Type | Server Gen Supported (Select Platforms) |
| P06200-B21 | HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3,840 | RI | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| P04482-B21 | HPE 7.68TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 7,680 | RI | SATA | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| 878783-B21 | HPE Universal SATA HHHL 3yr Wty M.2 Kit | NA | NA | SATA | M.2e | Non-Hot Plug | AIC | Yes | #N/A | Gen9 & 10 |

Technical Specifications

| SATA Interface – (Speeds & Feeds) | | | | | | | |
|-----------------------------------|---|----------------------|----------------|---|---|---|--|
| HPE Option Kit SKU | Long Description | Lifetime Writes (TB) | Endurance DWPD | MAX Seq Reads / Max Seq Writes Throughput (MiB/s) | Random Read Avg. / Random Write Avg. Latency uSec (4KiB,Q1) | Random Read / Random Writes IOPS (4KiB, Q=16) | MAX Random Read / MAX Random Write IOPS (4KiB) |
| 875483-B21 | HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 2,200 | 5.0 | 510 / 320 | 125 / 40 | 62,000 / 52,500 | 70,000@Q32 52,500@Q16 |
| 875488-B21 | HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD | 650 | 1.5 | 500 / 260 | 135 / 40 | 60,000 / 34,000 | 66,000@Q32 34,000@Q4 |
| 880295-B21 | HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,400 | 3.0 | 500 / 240 | 120 / 48 | 59,000 / 37,000 | 65,000@Q32 37,000@Q4 |
| P03594-B21 | HPE 240GB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 1,400 | 3.0 | 500 / 240 | 120 / 48 | 59,000 / 37,000 | 65,000@Q32 37,000@Q4 |
| P03606-B21 | HPE 240GB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 2,200 | 5.0 | 510 / 320 | 125 / 40 | 62,000 / 52,500 | 70,000@Q32 52,500@Q16 |
| 872344-B21 | HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3,364 | 3.5 | 510 / 475 | 110 / 50 | 63,000 / 20,000 | 69,000@Q32 20,000@Q4 |
| 872346-B21 | HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 3,364 | 3.5 | 510 / 475 | 110 / 50 | 63,000 / 20,000 | 69,000@Q32 20,000@Q4 |
| 875470-B21 | HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 4,400 | 5.0 | 510 / 455 | 125 / 40 | 62,000 / 52,500 | 68,500@Q32 52,500@Q16 |
| 875490-B21 | HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD | 1,300 | 1.5 | 500 / 400 | 130 / 40 | 60,000 / 34,000 | 68,000@Q32 34,000@Q4 |
| 877776-B21 | HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 2,950 | 3.0 | 500 / 455 | 120 / 48 | 60,000 / 46,000 | 65,000@Q32 47,500@Q32 |
| P03596-B21 | HPE 480GB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 2,950 | 3.0 | 500 / 455 | 120 / 48 | 60,000 / 46,000 | 65,000@Q32 47,500@Q32 |
| P06607-B21 | HPE Dual 240GB SATA 6G Mixed Use M.2 - UFF to SFF SCM 3yr Wty Digitally Signed Firmware SSD | NA | NA | NA / NA | NA / NA | NA / NA | NA NA |
| P07922-B21 | HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 4,380 | 5.0 | 520 / 445 | 125 / 36 | 66,000 / 52,500 | <u>73,500@Q32</u> <u>52,500@Q16</u> |
| P07924-B21 | HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 4,380 | 5.0 | 520 / 445 | 125 / 36 | 66,000 / 52,500 | <u>73,500@Q32</u> <u>52,500@Q16</u> |
| 872348-B21 | HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 6,727 | 3.5 | 510 / 475 | 110 / 40 | 62,000 / 26,500 | 69,000@Q32 26,500@Q4 |

Technical Specifications

| SATA Interface – (Speeds & Feeds) | | | | | | | |
|-----------------------------------|--|----------------------|----------------|---|---|---|--|
| HPE Option Kit SKU | Long Description | Lifetime Writes (TB) | Endurance DWPD | MAX Seq Reads / Max Seq Writes Throughput (MiB/s) | Random Read Avg. / Random Write Avg. Latency uSec (4KiB,Q1) | Random Read / Random Writes IOPS (4KiB, Q=16) | MAX Random Read / MAX Random Write IOPS (4KiB) |
| 872350-B21 | HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 6,727 | 3.5 | 510 / 475 | 110 / 40 | 62,000 / 26,500 | 69,000@Q32 26,500@Q4 |
| 875474-B21 | HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 8,800 | 5.0 | 510 / 480 | 130 / 40 | 60,000 / 52,500 | 67,500@Q32 52,500@Q16 |
| 875492-B21 | HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD | 4,400 | 2.6 | 500 / 465 | 130 / 40 | 60,000 / 30,000 | 68,000@Q32 30,000@Q4 |
| 877782-B21 | HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 5,250 | 3.0 | 500 / 455 | 120 / 48 | 60,000 / 45,000 | 65,000@Q32 47,500@Q32 |
| 877784-B21 | HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 5,250 | 3.0 | 500 / 455 | 120 / 48 | 60,000 / 45,000 | 65,000@Q32 47,500@Q32 |
| P03598-B21 | HPE 960GB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 5,250 | 3.0 | 500 / 455 | 120 / 48 | 60,000 / 45,000 | 65,000@Q32 47,500@Q32 |
| P03691-B21 | HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 8,800 | 5.0 | 510 / 480 | 130 / 40 | 60,000 / 52,500 | 67,500@Q32 52,500@Q16 |
| P07926-B21 | HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 8,760 | 5.0 | 520 / 495 | 125 / 36 | 63,000 / 52,500 | <u>64,500@Q32</u> <u>52,500@Q16</u> |
| P07928-B21 | HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 8,760 | 5.0 | 520 / 495 | 125 / 36 | 63,000 / 52,500 | <u>64,500@Q32</u> <u>52,500@Q16</u> |
| 872352-B21 | HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 13,400 | 3.5 | 500 / 475 | 110 / 38 | 61,500 / 28,500 | 69,000@Q32 28,500@Q4 |
| 875478-B21 | HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 17,600 | 5.0 | 500 / 480 | 190 / 40 | 54,000 / 53,000 | 61,500@Q32 53,000@Q4 |
| 875480-B21 | HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 17,600 | 5.0 | 500 / 480 | 190 / 40 | 54,000 / 53,000 | 61,500@Q32 53,000@Q4 |
| 877788-B21 | HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 10,840 | 3.0 | 500 / 435 | 120 / 48 | 60,000 / 45,000 | 65,000@Q32 47,500@Q32 |
| 877790-B21 | HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 10,870 | 3.0 | 500 / 435 | 120 / 48 | 60,000 / 45,000 | 65,000@Q32 47,500@Q32 |
| P03600-B21 | HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 10,840 | 3.0 | 500 / 435 | 120 / 48 | 60,000 / 45,000 | 65,000@Q32 47,500@Q32 |

Technical Specifications

| SATA Interface – (Speeds & Feeds) | | | | | | | |
|-----------------------------------|---|----------------------|----------------|---|---|---|--|
| HPE Option Kit SKU | Long Description | Lifetime Writes (TB) | Endurance DWPD | MAX Seq Reads / Max Seq Writes Throughput (MiB/s) | Random Read Avg. / Random Write Avg. Latency uSec (4KiB,Q1) | Random Read / Random Writes IOPS (4KiB, Q=16) | MAX Random Read / MAX Random Write IOPS (4KiB) |
| P03608-B21 | HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 17,600 | 5.0 | 500 / 480 | 190 / 40 | 54,000 / 53,000 | 61,500@Q32 53,000@Q4 |
| P03610-B21 | HPE 1.92TB SATA 6G Mixed Use LPC (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 17,600 | 5.0 | 500 / 480 | 190 / 40 | 54,000 / 53,000 | 61,500@Q32 53,000@Q4 |
| P03689-B21 | HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 10,840 | 3.0 | 500 / 435 | 120 / 48 | 60,000 / 45,000 | 65,000@Q32 47,500@Q32 |
| P07930-B21 | HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 17,500 | 5.0 | 520 / 495 | 125 / 36 | 59,000 / 52,500 | <u>62,000@Q32</u> <u>52,500@Q16</u> |
| P07932-B21 | HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 17,500 | 5.0 | 520 / 495 | 125 / 36 | 59,000 / 52,500 | <u>62,000@Q32</u> <u>52,500@Q16</u> |
| P07934-B21 | HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 17,500 | 5.0 | 520 / 495 | 125 / 26 | 59,000 / 52,500 | <u>62,000@Q32</u> <u>52,500@Q16</u> |
| P07936-B21 | HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 17,500 | 5.0 | 520 / 495 | 125 / 36 | 59,000 / 52,500 | <u>62,000@Q32</u> <u>52,500@Q16</u> |
| P00896-B21 | HPE 3.84TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 17,600 | 2.6 | 510 / 490 | 125 / 40 | 56,000 / 28,000 | 60,000@Q32 28,000@Q4 |
| | | | | | | | |
| 868814-B21 | HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 372 | 0.8 | 370 / 300 | 120 / 105 | 66,000 / 9,800 | 73,000@Q32 9,800@Q4 |
| 875503-B21 | HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 650 | 1.5 | 505 / 260 | 125 / 40 | 62,500 / 33,000 | 69,500@Q32 33,000@Q4 |
| 875507-B21 | HPE 240GB SATA 6G Read Intensive SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 650 | 1.5 | 505 / 260 | 125 / 40 | 62,500 / 33,000 | 69,500@Q32 33,000@Q4 |
| 877740-B21 | HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 620 | 1.4 | 500 / 185 | 120 / 60 | 56,000 / 17,000 | 64,000@Q32 17,000@Q1 |
| P04556-B21 | HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 350 | 0.8 | 535 / 315 | 105 / 70 | 70,000 / 14,000 | 79,000@Q32 14,000@Q1 |

Technical Specifications

| SATA Interface – (Speeds & Feeds) | | | | | | | |
|-----------------------------------|--|----------------------|----------------|---|---|---|--|
| HPE Option Kit SKU | Long Description | Lifetime Writes (TB) | Endurance DWPD | MAX Seq Reads / Max Seq Writes Throughput (MiB/s) | Random Read Avg. / Random Write Avg. Latency uSec (4KiB,Q1) | Random Read / Random Writes IOPS (4KiB, Q=16) | MAX Random Read / MAX Random Write IOPS (4KiB) |
| 868818-B21 | HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 754 | 0.8 | 530 / 490 | 120 / 58 | 66,000 / 17,000 | 75,500@Q32 17,000@Q1 |
| 869056-B21 | HPE 480GB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 754 | 0.8 | 530 / 490 | 120 / 58 | 66,000 / 17,000 | 75,500@Q32 17,000@Q1 |
| 875498-B21 | HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD | 450 | 0.5 | 500 / 425 | 130 / 40 | 61,000 / 46,000 | 67,000@Q32 46,000@Q64 |
| 875509-B21 | HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 450 | 0.5 | 505 / 380 | 125 / 40 | 61,000 / 34,000 | 67,000@Q32 34,000@Q4 |
| 877746-B21 | HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 900 | 1.0 | 500 / 330 | 120 / 60 | 60,000 / 20,000 | 64,000@Q32 20,000@Q4 |
| 877748-B21 | HPE 480GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 900 | 1.0 | 500 / 330 | 120 / 60 | 60,000 / 20,000 | 64,000@Q32 20,000@Q4 |
| P04474-B21 | HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 870 | 0.5 | 520 / 370 | 125 / 37 | 65,000 / 34,000 | 76,000@Q32 35,000@Q32 |
| P04499-B21 | HPE 480GB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 870 | 0.5 | 520 / 370 | 125 / 37 | 65,000 / 34,000 | 76,000@Q32 35,000@Q32 |
| P04560-B21 | HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 700 | 0.8 | 535 / 495 | 105 / 40 | 68,000 / 25,000 | 77,000@Q32 25,000@Q1 |
| P06194-B21 | HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 430 | 0.5 | 530 / 300 | 120 / 65 | 65,000 / 15,000 | 65,500@Q32 15,400@Q1 |
| 868822-B21 | HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,489 | 0.8 | 530 / 490 | 120 / 41 | 64,000 / 24,500 | 75,500@Q32 24,500@Q4 |
| 875500-B21 | HPE 960GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD | 900 | 0.5 | 500 / 465 | 130 / 40 | 61,000 / 41,000 | 67,000@Q32 41,000@Q4 |

Technical Specifications

| SATA Interface – (Speeds & Feeds) | | | | | | | |
|-----------------------------------|--|----------------------|----------------|---|---|---|--|
| HPE Option Kit SKU | Long Description | Lifetime Writes (TB) | Endurance DWPD | MAX Seq Reads / Max Seq Writes Throughput (MiB/s) | Random Read Avg. / Random Write Avg. Latency uSec (4KiB,Q1) | Random Read / Random Writes IOPS (4KiB, Q=16) | MAX Random Read / MAX Random Write IOPS (4KiB) |
| 875511-B21 | HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 900 | 0.5 | 505 / 475 | 125 / 40 | 61,000 / 31,000 | 67,000@Q32 31,000@Q4 |
| 877752-B21 | HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,860 | 1.0 | 500 / 465 | 120 / 60 | 60,000 / 30,000 | 64,000@Q32 30,000@Q16 |
| 877754-B21 | HPE 960GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 1,860 | 1.0 | 500 / 465 | 120 / 60 | 60,000 / 30,000 | 64,000@Q32 30,000@Q16 |
| 877756-B21 | HPE 960GB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 1,860 | 1.0 | 500 / 465 | 120 / 60 | 60,000 / 30,000 | 64,000@Q32 30,000@Q16 |
| P04476-B21 | HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,750 | 1.0 | 520 / 490 | 125 / 40 | 65,000 / 29,000 | 69,000@Q32 32,000@Q32 |
| P04564-B21 | HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,400 | 0.8 | 535 / 495 | 105 / 36 | 65,000 / 29,000 | 76,000@Q32 29,000@Q4 |
| P06196-B21 | HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,710 | 1.0 | 530 / 480 | 120 / 42 | 58,500 / 36,500 | 58,500@Q32 38,200@Q16 |
| P06609-B21 | HPE Dual 480GB SATA 6G Read Intensive M.2 - UFF to SFF SCM 3yr Wty Digitally Signed Firmware SSD | NA | NA | NA / NA | NA / NA | NA / NA | NA NA |
| 868826-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 2,979 | 0.8 | 530 / 490 | 120 / 38 | 61,500 / 26,000 | 73,500@Q32 26,000@Q1 |
| 875513-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3,200 | 0.9 | 505 / 475 | 130 / 40 | 59,000 / 27,000 | 67,000@Q32 27,000@Q4 |
| 877758-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3,270 | 1.0 | 500 / 445 | 120 / 60 | 57,000 / 31,000 | 64,000@Q32 31,000@Q16 |

Technical Specifications

| SATA Interface – (Speeds & Feeds) | | | | | | | |
|-----------------------------------|---|----------------------|----------------|---|---|---|--|
| HPE Option Kit SKU | Long Description | Lifetime Writes (TB) | Endurance DWPD | MAX Seq Reads / Max Seq Writes Throughput (MiB/s) | Random Read Avg. / Random Write Avg. Latency uSec (4KiB,Q1) | Random Read / Random Writes IOPS (4KiB, Q=16) | MAX Random Read / MAX Random Write IOPS (4KiB) |
| 877760-B21 | HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 3,270 | 1.0 | 500 / 445 | 120 / 60 | 57,000 / 31,000 | 64,000@Q32 31,000@Q16 |
| 877762-B21 | HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 3,270 | 1.0 | 500 / 445 | 120 / 60 | 57,000 / 31,000 | 64,000@Q32 31,000@Q16 |
| P03602-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 3,270 | 1.0 | 500 / 445 | 120 / 60 | 57,000 / 31,000 | 64,000@Q32 31,000@Q16 |
| P04478-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3,500 | 1.0 | 520 / 495 | 125 / 41 | 60,000 / 24,000 | 62,000@Q32 25,000@Q32 |
| P04501-B21 | HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 3,500 | 1.0 | 520 / 495 | 125 / 41 | 60,000 / 24,000 | 62,000@Q32 25,000@Q32 |
| P04566-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 2,800 | 0.8 | 535 / 495 | 120 / 36 | 64,000 / 30,000 | 73,000@Q32 30,000@Q4 |
| P06198-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3,100 | 0.9 | 530 / 470 | 120 / 42 | 55,500 / 31,000 | 56,000@Q32 32,500@Q4 |
| 868830-B21 | HPE 3.8TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 6,512 | 0.8 | 530 / 490 | 120 / 36 | 63,500 / 27,500 | 75,500@Q32 27,500@Q1 |
| 877764-B21 | HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 7,640 | 1.0 | 500 / 445 | 120 / 60 | 59,000 / 30,000 | 63,000@Q32 30,000@Q16 |
| P03604-B21 | HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 7,640 | 1.0 | 500 / 445 | 120 / 60 | 59,000 / 30,000 | 63,000@Q32 30,000@Q16 |
| P04480-B21 | HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 7,700 | 1.1 | 520 / 495 | 125 / 45 | 55,000 / 21,000 | 58,000@Q32 22,000@Q4 |

Technical Specifications

| SATA Interface – (Speeds & Feeds) | | | | | | | |
|-----------------------------------|--|----------------------|----------------|---|---|---|--|
| HPE Option Kit SKU | Long Description | Lifetime Writes (TB) | Endurance DWPD | MAX Seq Reads / Max Seq Writes Throughput (MiB/s) | Random Read Avg. / Random Write Avg. Latency uSec (4KiB,Q1) | Random Read / Random Writes IOPS (4KiB, Q=16) | MAX Random Read / MAX Random Write IOPS (4KiB) |
| P04570-B21 | HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 5,600 | 0.8 | 535 / 495 | 120 / 36 | 63,000 / 30,000 | 72,000@Q32 30,000@Q4 |
| P06200-B21 | HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3,400 | 0.5 | 530 / 480 | 120 / 42 | 54,000 / 26,000 | 56,000@Q32 25,000@Q4 |
| P04482-B21 | HPE 7.68TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 8,400 | 0.6 | 520 / 495 | 125 / 100 | 54,000 / 10,000 | 57,000@Q32 10,000@Q1 |
| 878783-B21 | HPE Universal SATA HHHHL 3yr Wty M.2 Kit | NA | NA | NA / NA | NA / NA | NA / NA | NA NA |

Technical Specifications

| SATA Interface – (Power & Height) | | | | | | | | | |
|-----------------------------------|---|-----------------|---------------------------|----------------------------|-------------------------------|--------------------------------|--------------------------|-------------------|-----------|
| HPE Option Kit SKU | Long Description | Power Idle Time | Power Random Read (Watts) | Power Random Write (Watts) | Power Sequential Read (Watts) | Power Sequential Write (Watts) | Power Random R/W (Watts) | Power MAX (Watts) | z- Height |
| 875483-B21 | HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.07 | 3.00 | 3.00 | 3.21 | 3.90 | 2.95 | 4.00 | 7mm |
| 875488-B21 | HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD | 1.07 | 3.00 | 3.00 | 3.21 | 3.90 | 2.95 | 4.00 | 2280 M.2 |
| 880295-B21 | HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.25 | 2.45 | 3.40 | 2.37 | 3.40 | 2.91 | 4.00 | 7mm |
| P03594-B21 | HPE 240GB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 1.25 | 2.45 | 3.40 | 2.37 | 3.40 | 2.91 | 4.00 | 7mm |
| P03606-B21 | HPE 240GB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 1.07 | 3.00 | 3.00 | 3.21 | 3.90 | 2.95 | 4.00 | 7mm |
| 872344-B21 | HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.23 | 2.51 | 2.51 | 2.59 | 2.83 | 2.51 | 3.00 | 7mm |
| 872346-B21 | HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 1.23 | 2.51 | 2.51 | 2.59 | 2.83 | 2.51 | 3.00 | 7mm |
| 875470-B21 | HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3.22 | 3.43 | 7.85 | 5.70 | 7.71 | 5.88 | 8.00 | 7mm |
| 875490-B21 | HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD | 1.07 | 3.02 | 3.02 | 3.42 | 4.03 | 3.00 | 5.00 | 2280 M.2 |
| 877776-B21 | HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.25 | 2.42 | 4.25 | 2.19 | 4.44 | 3.06 | 5.00 | 7mm |
| P03596-B21 | HPE 480GB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 1.25 | 2.42 | 4.25 | 2.19 | 4.44 | 3.06 | 5.00 | 7mm |
| P06607-B21 | HPE Dual 240GB SATA 6G Mixed Use M.2 - UFF to SFF SCM 3yr Wty Digitally Signed Firmware SSD | 2.00 | 2.84 | 2.84 | 3.90 | 5.74 | 2.84 | 6.00 | 7mm |
| P07922-B21 | HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.50 | 2.00 | 2.00 | 4.00 | 6.00 | 2.00 | 6.00 | 7mm |
| P07924-B21 | HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 1.50 | 2.00 | 2.00 | 4.00 | 6.00 | 2.00 | 6.00 | 7mm |
| 872348-B21 | HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.23 | 2.66 | 2.66 | 2.69 | 2.84 | 2.66 | 3.00 | 7mm |

Technical Specifications

| SATA Interface – (Power & Height) | | | | | | | | | |
|-----------------------------------|--|-----------------|---------------------------|----------------------------|-------------------------------|--------------------------------|--------------------------|-------------------|-----------|
| HPE Option Kit SKU | Long Description | Power Idle Time | Power Random Read (Watts) | Power Random Write (Watts) | Power Sequential Read (Watts) | Power Sequential Write (Watts) | Power Random R/W (Watts) | Power MAX (Watts) | z- Height |
| 872350-B21 | HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 1.23 | 2.66 | 2.66 | 2.69 | 2.84 | 2.66 | 3.00 | 7mm |
| 875474-B21 | HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3.22 | 5.31 | 11.56 | 5.22 | 11.04 | 6.53 | 12.00 | 7mm |
| 875492-B21 | HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD | 1.07 | 3.17 | 3.17 | 3.82 | 5.62 | 3.10 | 6.00 | 2280 M.2 |
| 877782-B21 | HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.31 | 2.64 | 4.90 | 2.28 | 4.74 | 3.41 | 5.00 | 7mm |
| 877784-B21 | HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 1.32 | 2.64 | 4.90 | 2.28 | 4.74 | 3.42 | 5.00 | 7mm |
| P03598-B21 | HPE 960GB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 1.31 | 2.64 | 4.90 | 2.28 | 4.74 | 3.41 | 5.00 | 7mm |
| P03691-B21 | HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 3.22 | 5.31 | 11.56 | 5.22 | 11.04 | 6.53 | 4.00 | 7mm |
| P07926-B21 | HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.50 | 2.30 | 2.30 | 4.20 | 6.30 | 2.30 | 6.30 | 7mm |
| P07928-B21 | HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 1.50 | 2.30 | 2.30 | 4.20 | 6.30 | 2.30 | 6.30 | 7mm |
| 872352-B21 | HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.23 | 2.59 | 2.59 | 2.71 | 2.84 | 2.59 | 3.00 | 7mm |
| 875478-B21 | HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3.22 | 3.63 | 12.07 | 4.52 | 12.07 | 6.52 | 13.00 | 7mm |
| 875480-B21 | HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 1.07 | 3.51 | 3.51 | 4.52 | 6.12 | 3.40 | 7.00 | 7mm |
| 877788-B21 | HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.31 | 2.87 | 5.48 | 2.35 | 4.86 | 3.74 | 6.00 | 7mm |
| 877790-B21 | HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 1.32 | 2.87 | 5.48 | 2.35 | 4.86 | 3.74 | 6.00 | 7mm |
| P03600-B21 | HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 1.31 | 2.87 | 5.48 | 2.35 | 4.86 | 3.74 | 6.00 | 7mm |

Technical Specifications

| SATA Interface – (Power & Height) | | | | | | | | | |
|-----------------------------------|---|-----------------|---------------------------|----------------------------|-------------------------------|--------------------------------|--------------------------|-------------------|-----------|
| HPE Option Kit SKU | Long Description | Power Idle Time | Power Random Read (Watts) | Power Random Write (Watts) | Power Sequential Read (Watts) | Power Sequential Write (Watts) | Power Random R/W (Watts) | Power MAX (Watts) | z- Height |
| P03608-B21 | HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 3.22 | 3.63 | 12.07 | 4.52 | 12.07 | 6.52 | 13.00 | 7mm |
| P03610-B21 | HPE 1.92TB SATA 6G Mixed Use LPC (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 1.07 | 3.51 | 3.51 | 4.52 | 6.12 | 3.40 | 7.00 | 7mm |
| P03689-B21 | HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 1.31 | 2.87 | 5.48 | 2.35 | 4.86 | 3.74 | 6.00 | 7mm |
| P07930-B21 | HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.50 | 3.10 | 3.10 | 5.40 | 6.80 | 3.10 | 6.80 | 7mm |
| P07932-B21 | HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 1.50 | 3.10 | 3.10 | 5.40 | 6.80 | 3.10 | 6.80 | 7mm |
| P07934-B21 | HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 1.50 | 3.10 | 3.10 | 5.40 | 6.80 | 3.10 | 6.80 | 7mm |
| P07936-B21 | HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 1.50 | 3.10 | 3.10 | 5.40 | 6.80 | 3.10 | 6.80 | 7mm |
| P00896-B21 | HPE 3.84TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 0.50 | 3.07 | 3.07 | 1.23 | 3.92 | 3.07 | 4.00 | 7mm |
| 868814-B21 | HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.24 | 2.34 | 2.34 | 2.68 | 2.71 | 2.34 | 3.00 | 7mm |
| 875503-B21 | HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.07 | 3.00 | 3.00 | 3.21 | 3.90 | 2.95 | 4.00 | 7mm |
| 875507-B21 | HPE 240GB SATA 6G Read Intensive SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 1.07 | 3.00 | 3.00 | 3.21 | 3.90 | 2.95 | 4.00 | 7mm |
| 877740-B21 | HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.24 | 2.64 | 2.84 | 2.20 | 2.83 | 2.64 | 3.00 | 7mm |
| P04556-B21 | HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.12 | 2.11 | 2.11 | 1.84 | 1.84 | 2.11 | 3.00 | 7mm |

Technical Specifications

| SATA Interface – (Power & Height) | | | | | | | | | |
|-----------------------------------|--|-----------------|---------------------------|----------------------------|-------------------------------|--------------------------------|--------------------------|-------------------|-----------|
| HPE Option Kit SKU | Long Description | Power Idle Time | Power Random Read (Watts) | Power Random Write (Watts) | Power Sequential Read (Watts) | Power Sequential Write (Watts) | Power Random R/W (Watts) | Power MAX (Watts) | z- Height |
| 868818-B21 | HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.26 | 2.79 | 2.79 | 2.70 | 3.52 | 2.79 | 4.00 | 7mm |
| 869056-B21 | HPE 480GB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 1.26 | 2.79 | 2.79 | 2.70 | 3.52 | 2.79 | 4.00 | 7mm |
| 875498-B21 | HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD | 1.07 | 3.02 | 3.02 | 3.42 | 4.03 | 3.00 | 5.00 | 2280 M.2 |
| 875509-B21 | HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.07 | 3.17 | 3.17 | 3.82 | 5.62 | 3.10 | 6.00 | 7mm |
| 877746-B21 | HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.25 | 2.40 | 3.60 | 2.17 | 3.52 | 3.08 | 4.00 | 7mm |
| 877748-B21 | HPE 480GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 1.20 | 2.40 | 3.60 | 2.17 | 3.52 | 3.08 | 4.00 | 7mm |
| P04474-B21 | HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.50 | 2.00 | 2.00 | 4.00 | 6.00 | 2.00 | 6.00 | 7mm |
| P04499-B21 | HPE 480GB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 1.50 | 3.10 | 3.10 | 5.40 | 6.80 | 3.10 | 6.80 | 7mm |
| P04560-B21 | HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.12 | 2.29 | 2.29 | 1.89 | 2.50 | 2.29 | 3.00 | 7mm |
| P06194-B21 | HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 0.78 | 1.61 | 1.61 | 1.68 | 1.90 | 1.61 | 2.00 | 7mm |
| 868822-B21 | HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.28 | 2.80 | 2.80 | 2.82 | 3.64 | 2.80 | 4.00 | 7mm |
| 875500-B21 | HPE 960GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD | 1.07 | 3.17 | 3.17 | 3.82 | 5.62 | 3.10 | 6.00 | 2280 M.2 |

Technical Specifications

| SATA Interface – (Power & Height) | | | | | | | | | |
|-----------------------------------|--|-----------------|---------------------------|----------------------------|-------------------------------|--------------------------------|--------------------------|-------------------|-----------|
| HPE Option Kit SKU | Long Description | Power Idle Time | Power Random Read (Watts) | Power Random Write (Watts) | Power Sequential Read (Watts) | Power Sequential Write (Watts) | Power Random R/W (Watts) | Power MAX (Watts) | z- Height |
| 875511-B21 | HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.07 | 3.17 | 3.17 | 3.82 | 5.62 | 3.10 | 6.00 | 7mm |
| 877752-B21 | HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.31 | 2.69 | 4.60 | 2.31 | 4.70 | 3.76 | 5.00 | 7mm |
| 877754-B21 | HPE 960GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 1.31 | 2.69 | 4.60 | 2.31 | 4.70 | 3.76 | 5.00 | 7mm |
| 877756-B21 | HPE 960GB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 1.29 | 2.69 | 4.60 | 2.31 | 4.70 | 3.76 | 5.00 | 7mm |
| P04476-B21 | HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.50 | 2.00 | 2.00 | 4.00 | 6.00 | 2.00 | 6.00 | 7mm |
| P04564-B21 | HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.12 | 2.33 | 2.33 | 1.93 | 2.63 | 2.33 | 3.00 | 7mm |
| P06196-B21 | HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 0.78 | 1.61 | 1.61 | 1.69 | 2.35 | 1.61 | 3.00 | 7mm |
| P06609-B21 | HPE Dual 480GB SATA 6G Read Intensive M.2 - UFF to SFF SCM 3yr Wty Digitally Signed Firmware SSD | 2.00 | 2.84 | 2.84 | 3.90 | 5.74 | 2.84 | 6.00 | 7mm |
| 868826-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.29 | 2.87 | 2.87 | 3.10 | 3.98 | 2.87 | 4.00 | 7mm |
| 875513-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.07 | 3.51 | 3.51 | 4.52 | 6.12 | 3.40 | 7.00 | 7mm |
| 877758-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.29 | 2.77 | 5.23 | 2.35 | 4.89 | 4.10 | 6.00 | 7mm |

Technical Specifications

| SATA Interface – (Power & Height) | | | | | | | | | |
|-----------------------------------|---|-----------------|---------------------------|----------------------------|-------------------------------|--------------------------------|--------------------------|-------------------|-----------|
| HPE Option Kit SKU | Long Description | Power Idle Time | Power Random Read (Watts) | Power Random Write (Watts) | Power Sequential Read (Watts) | Power Sequential Write (Watts) | Power Random R/W (Watts) | Power MAX (Watts) | z- Height |
| 877760-B21 | HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 1.29 | 2.77 | 5.23 | 2.35 | 4.86 | 4.10 | 6.00 | 7mm |
| 877762-B21 | HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 1.29 | 2.77 | 5.23 | 2.35 | 4.86 | 4.10 | 6.00 | 7mm |
| P03602-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 1.29 | 2.77 | 5.23 | 2.35 | 4.89 | 4.10 | 6.00 | 7mm |
| P04478-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.50 | 2.30 | 2.30 | 4.20 | 6.30 | 2.30 | 6.30 | 7mm |
| P04501-B21 | HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 1.50 | 3.10 | 3.10 | 5.40 | 6.80 | 3.10 | 6.80 | 7mm |
| P04566-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.12 | 2.35 | 2.35 | 1.78 | 2.65 | 2.35 | 3.00 | 7mm |
| P06198-B21 | HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 0.81 | 1.67 | 1.67 | 1.77 | 2.41 | 1.67 | 3.00 | 7mm |
| 868830-B21 | HPE 3.8TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.41 | 3.05 | 3.05 | 3.29 | 4.24 | 3.05 | 5.00 | 7mm |
| 877764-B21 | HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.35 | 3.00 | 5.44 | 2.50 | 5.28 | 4.28 | 6.00 | 7mm |
| P03604-B21 | HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 1.35 | 3.00 | 5.44 | 2.50 | 5.28 | 4.28 | 6.00 | 7mm |
| P04480-B21 | HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.50 | 2.30 | 2.30 | 4.20 | 6.30 | 2.30 | 6.30 | 7mm |

Technical Specifications

| SATA Interface – (Power & Height) | | | | | | | | | |
|--|--|-----------------|---------------------------|----------------------------|-------------------------------|--------------------------------|--------------------------|-------------------|-------------------------|
| HPE Option Kit SKU | Long Description | Power Idle Time | Power Random Read (Watts) | Power Random Write (Watts) | Power Sequential Read (Watts) | Power Sequential Write (Watts) | Power Random R/W (Watts) | Power MAX (Watts) | z- Height |
| P04570-B21 | HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.12 | 2.21 | 2.21 | 1.78 | 2.65 | 2.21 | 3.00 | 7mm |
| P06200-B21 | HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 0.90 | 1.87 | 1.87 | 2.08 | 2.68 | 1.87 | 3.00 | 7mm |
| P04482-B21 | HPE 7.68TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.50 | 3.10 | 3.10 | 5.40 | 6.80 | 3.10 | 6.80 | 7mm |
| 878783-B21 | HPE Universal SATA HHHL 3yr Wty M.2 Kit | NA | NA | NA | NA | NA | NA | 0.00 | Half Height/Half Length |
| NOTE: Please use HPE Selector Tool http://ssd.hpe.com/ to determine server compatibility. | | | | | | | | | |

Technical Specifications

| SAS Interface – (Capacity, Workload, Carrier...) | | | | | | | | | | |
|--|--|----------|---------------|----------------|-------------|-----------|--------------|--------------------------------|------------|---|
| HPE Option Kit SKU | Long Description | Capacity | Workload Type | Interface Type | Form Factor | Plug Type | Carrier Type | Digitally Signed Firmware (DS) | Flash Type | Server Gen Supported (Select Platforms) |
| 873349-B21 | HPE 400GB SAS 12G Write Intensive SFF (2.5in) ST 3yr Wty Digitally Signed Firmware SSD | 400 | WI | SAS | SFF | Hot Plug | STD | Yes | MLC | Gen9 & 10 |
| 873351-B21 | HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 400 | WI | SAS | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 873355-B21 | HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 800 | WI | SAS | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 873460-B21 | HPE 800GB SAS 12G Write Intensive SFF (2.5in) ST 3yr Wty Digitally Signed Firmware SSD | 800 | WI | SAS | SFF | Hot Plug | STD | Yes | MLC | Gen9 & 10 |
| 873357-B21 | HPE 1.6TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,600 | WI | SAS | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 872374-B21 | HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 400 | MU | SAS | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 873359-B21 | HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 400 | MU | SAS | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 872376-B21 | HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 800 | MU | SAS | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 872378-B21 | HPE 800GB SAS 12G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 800 | MU | SAS | LFF | Hot Plug | SCC | Yes | MLC | Gen9 & 10 |
| 872380-B21 | HPE 800GB SAS 12G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 800 | MU | SAS | LFF | Hot Plug | LPC | Yes | MLC | Gen9 & 10 |
| 873363-B21 | HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 800 | MU | SAS | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |

| SAS Interface – (Capacity, Workload, Carrier...) | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|
|--|--|--|--|--|--|--|--|--|--|--|

Technical Specifications

| HPE Option Kit SKU | Long Description | Capacity | Workload Type | Interface Type | Form Factor | Plug Type | Carrier Type | Digitally Signed Firmware (DS) | Flash Type | Server Gen Supported (Select Platforms) |
|--------------------|--|----------|---------------|----------------|-------------|-----------|--------------|--------------------------------|------------|---|
| 872382-B21 | HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,600 | MU | SAS | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 872384-B21 | HPE 1.6TB SAS 12G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 1,600 | MU | SAS | LFF | Hot Plug | LPC | Yes | MLC | Gen9 & 10 |
| 873365-B21 | HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,600 | MU | SAS | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 872386-B21 | HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3,200 | MU | SAS | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 873367-B21 | HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3,200 | MU | SAS | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| | | | | | | | | | | |
| 875311-B21 | HPE 480GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 480 | RI | SAS | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 872390-B21 | HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 960 | RI | SAS | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 875313-B21 | HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 960 | RI | SAS | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| P06584-B21 | HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 960 | RI | SAS | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| 872392-B21 | HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,920 | RI | SAS | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 875326-B21 | HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,920 | RI | SAS | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |

Technical Specifications

| SAS Interface – (Capacity, Workload, Carrier...) | | | | | | | | | | |
|--|--|----------|---------------|----------------|-------------|-----------|--------------|--------------------------------|------------|---|
| HPE Option Kit SKU | Long Description | Capacity | Workload Type | Interface Type | Form Factor | Plug Type | Carrier Type | Digitally Signed Firmware (DS) | Flash Type | Server Gen Supported (Select Platforms) |
| P06586-B21 | HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,920 | RI | SAS | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| 872394-B21 | HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3,840 | RI | SAS | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| 875330-B21 | HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3,840 | RI | SAS | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| P06588-B21 | HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3,840 | RI | SAS | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| 870144-B21 | HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 7,680 | RI | SAS | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| P06590-B21 | HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 7,680 | RI | SAS | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |
| 870148-B21 | HPE 15.3TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 15,300 | RI | SAS | SFF | Hot Plug | SC | Yes | MLC | Gen9 & 10 |
| P06592-B21 | HPE 15.3TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 15,300 | RI | SAS | SFF | Hot Plug | SC | Yes | TLC | Gen9 & 10 |

Technical Specifications

| SAS Interface – (Speeds & Feeds) | | | | | | | |
|----------------------------------|--|----------------------|----------------|---|---|---|--|
| HPE Option Kit SKU | Long Description | Lifetime Writes (TB) | Endurance DWPD | MAX Seq Reads / Max Seq Writes Throughput | Random Read Avg. / Random Write Avg. Latency uSec | Random Read / Random Writes IOPS (4KiB, Q=16) | MAX Random Read / MAX Random Write IOPS (4KiB) |
| 873349-B21 | HPE 400GB SAS 12G Write Intensive SFF (2.5in) ST 3yr Wty Digitally Signed Firmware SSD | SAS | 700 | 10.0 | 1,050 / 1,005 | 110 / 45 | 100,000 / 100,000 |
| 873351-B21 | HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | SAS | 700 | 10.0 | 1,050 / 1,005 | 110 / 45 | 100,000 / 100,000 |
| 873355-B21 | HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | SAS | 1,500 | 10.0 | 1,050 / 1,005 | 105 / 35 | 120,000 / 100,000 |
| 873460-B21 | HPE 800GB SAS 12G Write Intensive SFF (2.5in) ST 3yr Wty Digitally Signed Firmware SSD | SAS | 1,500 | 10.0 | 1,050 / 1,005 | 105 / 35 | 120,000 / 100,000 |
| 873357-B21 | HPE 1.6TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | SAS | 2,900 | 10.0 | 1,050 / 1,005 | 105 / 35 | 125,000 / 100,000 |
| 872374-B21 | HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 2,190 | 3.0 | 1,075 / 1,025 | 120 / 48 | 120,000 / 80,000 | 185,000@Q32 80,000@Q16 |
| 873359-B21 | HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 2,000 | 3.0 | 1,050 / 820 | 105 / 35 | 115,000 / 100,000 | 170,000@Q64 100,000@Q16 |
| 872376-B21 | HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 4,380 | 3.0 | 1,075 / 1,025 | 126 / 57 | 120,000 / 90,000 | 185,000@Q32 90,000@Q16 |
| 872378-B21 | HPE 800GB SAS 12G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 4,380 | 3.0 | 1,075 / 1,025 | 126 / 57 | 120,000 / 90,000 | 185,000@Q32 90,000@Q16 |
| 872380-B21 | HPE 800GB SAS 12G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 4,380 | 3.0 | 1,075 / 1,025 | 126 / 57 | 120,000 / 90,000 | 185,000@Q32 90,000@Q16 |
| 873363-B21 | HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 4,500 | 3.0 | 1,050 / 1,010 | 105 / 35 | 120,000 / 100,000 | 170,000@Q64 100,000@Q16 |

Technical Specifications

| SAS Interface – (Speeds & Feeds) | | | | | | | |
|----------------------------------|--|----------------------|----------------|---|---|---|--|
| HPE Option Kit SKU | Long Description | Lifetime Writes (TB) | Endurance DWPD | MAX Seq Reads / Max Seq Writes Throughput | Random Read Avg. / Random Write Avg. Latency uSec | Random Read / Random Writes IOPS (4KiB, Q=16) | MAX Random Read / MAX Random Write IOPS (4KiB) |
| 872382-B21 | HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 8,760 | 3.0 | 1,075 / 1,025 | 120 / 48 | 125,000 / 93,000 | 185,000@Q32 93,000@Q16 |
| 872384-B21 | HPE 1.6TB SAS 12G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 8,760 | 3.0 | 1,075 / 1,025 | 120 / 48 | 125,000 / 93,000 | 185,000@Q32 93,000@Q16 |
| 873365-B21 | HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 8,500 | 3.0 | 1,050 / 1,010 | 105 / 35 | 125,000 / 100,000 | 170,000@Q64 100,000@Q16 |
| 872386-B21 | HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 17,520 | 3.0 | 1,075 / 1,025 | 120 / 50 | 125,000 / 93,000 | 185,000@Q32 93,000@Q16 |
| 873367-B21 | HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 17,500 | 3.0 | 1,050 / 1,010 | 105 / 35 | 130,000 / 100,000 | 170,000@Q64 100,000@Q16 |
| 875311-B21 | HPE 480GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 876 | 1.0 | 940 / 615 | 115 / 47 | 110,000 / 21,000 | 170,000@Q128 21,000@Q1 |
| 872390-B21 | HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,752 | 1.0 | 1,070 / 1,025 | 120 / 50 | 120,000 / 29,000 | 185,000@Q32 29,000@Q4 |
| 875313-B21 | HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,752 | 1.0 | 940 / 1,015 | 115 / 42 | 110,000 / 32,000 | 170,000@Q128 32,000@Q4 |
| P06584-B21 | HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1,752 | 1.0 | 1,080 / 1,030 | 105 / 34 | 120,000 / 32,000 | 180,000@Q64 32,000@Q4 |
| 872392-B21 | HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3,504 | 1.0 | 1,070 / 1,025 | 120 / 50 | 125,000 / 34,000 | 185,000@Q32 34,000@Q4 |
| 875326-B21 | HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3,504 | 1.0 | 940 / 1,020 | 115 / 42 | 110,000 / 37,000 | 170,000@Q128 37,000@Q4 |

Technical Specifications

| SAS Interface – (Speeds & Feeds) | | | | | | | |
|----------------------------------|--|----------------------|----------------|---|---|---|--|
| HPE Option Kit SKU | Long Description | Lifetime Writes (TB) | Endurance DWPD | MAX Seq Reads / Max Seq Writes Throughput | Random Read Avg. / Random Write Avg. Latency uSec | Random Read / Random Writes IOPS (4KiB, Q=16) | MAX Random Read / MAX Random Write IOPS (4KiB) |
| P06586-B21 | HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3,504 | 1.0 | 1,080 / 1,030 | 105 / 34 | 120,000 / 48,000 | 180,000@Q64 48,000@Q4 |
| 872394-B21 | HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 7,008 | 1.0 | 1,070 / 1,025 | 120 / 50 | 125,000 / 34,000 | 185,000@Q32 34,000@Q4 |
| 875330-B21 | HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 7,008 | 1.0 | 940 / 1,020 | 115 / 40 | 110,000 / 26,000 | 170,000@Q128 26,000@Q4 |
| P06588-B21 | HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 7,008 | 1.0 | 1,080 / 1,030 | 105 / 34 | 115,000 / 55,000 | 180,000@Q64 55,000@Q4 |
| 870144-B21 | HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 14,016 | 1.0 | 940 / 1,000 | 150 / 40 | 93,000 / 34,000 | 148,000@Q64 34,000@Q4 |
| P06590-B21 | HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 14,016 | 1.0 | 1,080 / 1,030 | 120 / 34 | 113,000 / 67,000 | 180,000@Q64 67,000@Q4 |
| 870148-B21 | HPE 15.3TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 28,032 | 1.0 | 940 / 1,000 | 150 / 41 | 93,000 / 37,000 | 165,000@Q128 37,000@Q4 |
| P06592-B21 | HPE 15.3TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 28,032 | 1.0 | 1,080 / 1,030 | 120 / 35 | 110,000 / 58,000 | 178,000@Q64 58,000@Q16 |

Technical Specifications

| SAS Interface – (Power & Height) | | | | | | | | |
|----------------------------------|--|-------------------------|---------------------------|----------------------------|-------------------------------|--------------------------------|--------------------------|-----------|
| HPE Option Kit SKU | Long Description | Power Idle Time (Watts) | Power Random Read (Watts) | Power Random Write (Watts) | Power Sequential Read (Watts) | Power Sequential Write (Watts) | Power Random R/W (Watts) | z- Height |
| 873349-B21 | HPE 400GB SAS 12G Write Intensive SFF (2.5in) ST 3yr Wty Digitally Signed Firmware SSD | 3.46 | 5.86 | 5.86 | 5.65 | 8.08 | 5.86 | 15mm |
| 873351-B21 | HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3.46 | 5.86 | 5.86 | 5.65 | 8.08 | 5.86 | 15mm |
| 873355-B21 | HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3.61 | 6.19 | 6.19 | 6.63 | 10.65 | 6.19 | 15mm |
| 873460-B21 | HPE 800GB SAS 12G Write Intensive SFF (2.5in) ST 3yr Wty Digitally Signed Firmware SSD | 3.61 | 6.19 | 6.19 | 6.63 | 10.65 | 6.19 | 15mm |
| 873357-B21 | HPE 1.6TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3.22 | 6.66 | 6.66 | 6.07 | 9.89 | 6.66 | 15mm |
| 872374-B21 | HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3.82 | 4.33 | 4.33 | 6.41 | 8.42 | 4.33 | 15mm |
| 873359-B21 | HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3.64 | 5.39 | 5.39 | 5.60 | 7.29 | 5.39 | 15mm |
| 872376-B21 | HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3.06 | 4.07 | 4.07 | 6.28 | 8.22 | 4.07 | 15mm |
| 872378-B21 | HPE 800GB SAS 12G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 3.06 | 4.07 | 4.07 | 6.28 | 8.22 | 4.07 | 15mm |
| 872380-B21 | HPE 800GB SAS 12G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 3.06 | 4.07 | 4.07 | 6.28 | 8.22 | 4.07 | 15mm |
| 873363-B21 | HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3.58 | 5.99 | 5.99 | 6.47 | 9.84 | 5.99 | 15mm |

Technical Specifications

| SAS Interface – (Power & Height) | | | | | | | | |
|----------------------------------|--|-------------------------|---------------------------|----------------------------|-------------------------------|--------------------------------|--------------------------|-----------|
| HPE Option Kit SKU | Long Description | Power Idle Time (Watts) | Power Random Read (Watts) | Power Random Write (Watts) | Power Sequential Read (Watts) | Power Sequential Write (Watts) | Power Random R/W (Watts) | z- Height |
| 872382-B21 | HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3.64 | 4.16 | 4.16 | 6.95 | 8.67 | 4.16 | 15mm |
| 872384-B21 | HPE 1.6TB SAS 12G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD | 3.64 | 4.16 | 4.16 | 6.95 | 8.67 | 4.16 | 15mm |
| 873365-B21 | HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3.56 | 6.45 | 6.45 | 6.39 | 10.18 | 6.45 | 15mm |
| 872386-B21 | HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 4.22 | 4.74 | 4.74 | 7.75 | 9.50 | 4.74 | 15mm |
| 873367-B21 | HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 4.24 | 8.74 | 8.74 | 6.51 | 9.93 | 8.74 | 15mm |
| | | | | | | | | |
| 875311-B21 | HPE 480GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 4.33 | 4.67 | 4.67 | 4.89 | 6.76 | 4.67 | 15mm |
| 872390-B21 | HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3.06 | 4.07 | 4.07 | 6.28 | 8.22 | 4.07 | 15mm |
| 875313-B21 | HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 4.37 | 4.73 | 4.73 | 4.97 | 6.79 | 4.73 | 15mm |
| P06584-B21 | HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 1.50 | 3.10 | 3.10 | 5.40 | 6.80 | 3.10 | 7mm |
| 872392-B21 | HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3.64 | 4.16 | 4.16 | 6.95 | 8.67 | 4.16 | 15mm |
| 875326-B21 | HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 4.45 | 4.83 | 4.83 | 4.97 | 6.83 | 4.83 | 15mm |

Technical Specifications

| SAS Interface – (Power & Height) | | | | | | | | |
|----------------------------------|--|-------------------------|---------------------------|----------------------------|-------------------------------|--------------------------------|--------------------------|-----------|
| HPE Option Kit SKU | Long Description | Power Idle Time (Watts) | Power Random Read (Watts) | Power Random Write (Watts) | Power Sequential Read (Watts) | Power Sequential Write (Watts) | Power Random R/W (Watts) | z- Height |
| P06586-B21 | HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3.50 | 8.62 | 8.62 | 7.39 | 10.17 | 8.62 | 15mm |
| 872394-B21 | HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 4.22 | 4.74 | 4.74 | 7.75 | 9.50 | 4.74 | 15mm |
| 875330-B21 | HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 4.38 | 4.69 | 4.69 | 4.96 | 6.60 | 4.69 | 15mm |
| P06588-B21 | HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3.50 | 9.42 | 9.42 | 7.76 | 10.62 | 9.42 | 15mm |
| 870144-B21 | HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 6.13 | 6.91 | 6.91 | 8.44 | 8.73 | 6.91 | 15mm |
| P06590-B21 | HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 3.64 | 9.97 | 9.97 | 7.27 | 10.49 | 9.97 | 15mm |
| 870148-B21 | HPE 15.3TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 6.49 | 7.13 | 7.13 | 8.66 | 8.83 | 7.13 | 15mm |
| P06592-B21 | HPE 15.3TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 4.14 | 10.05 | 10.05 | 7.91 | 10.48 | 10.05 | 15mm |

Technical Specifications

| PCIe/NVMe Interface – SKUs (Capacity, Workload, Carrier...) | | | | | | | | | | |
|---|---|----------|---------------|----------------|-------------|--------------|--------------|--------------------------------|------------|---|
| HPE Option Kit SKU | Long Description | Capacity | Workload Type | Interface Type | Form Factor | Plug Type | Carrier Type | Digitally Signed Firmware (DS) | Flash Type | Server Gen Supported (Select Platforms) |
| 878014-B21 | HPE 375GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 375 | WI | NVMe | SFF | Hot Plug | SCN | Yes | MLC | Gen9 & 10 |
| 878038-B21 | HPE 750GB PCIe x4 Lanes Write Intensive HHHL 3yr Wty Digitally Signed Firmware Card | 750 | WI | NVMe | AIC | Non-Hot Plug | AIC | Yes | MLC | Gen9 & 10 |
| 875583-B21 | HPE 400GB NVMe x4 Lanes Mixed Use M.2 22110 3yr Wty Digitally Signed Firmware SSD | 400 | MU | NVMe | M.2 | #N/A | #N/A | Yes | MLC | Gen9 & 10 |
| 875593-B21 | HPE 400GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 400 | MU | NVMe | SFF | Hot Plug | SCN | Yes | MLC | Gen9 & 10 |
| 875585-B21 | HPE 800GB NVMe x4 Lanes Mixed Use M.2 22110 3yr Wty Digitally Signed Firmware SSD | 800 | MU | NVMe | M.2 | #N/A | #N/A | Yes | MLC | Gen9 & 10 |
| 875595-B21 | HPE 800GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 800 | MU | NVMe | SFF | Hot Plug | SCN | Yes | MLC | Gen9 & 10 |
| 875597-B21 | HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 1,600 | MU | NVMe | SFF | Hot Plug | SCN | Yes | MLC | Gen9 & 10 |
| 877825-B21 | HPE 1.6TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card | 1,600 | MU | NVMe | AIC | Non-Hot Plug | AIC | Yes | MLC | Gen9 & 10 |
| 877994-B21 | HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 1,600 | MU | NVMe | SFF | Hot Plug | SCN | Yes | MLC | Gen9 & 10 |
| P03612-B21 | HPE 1.6TB NVMe x4 Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 1,600 | MU | NVMe | SFF | Hot Plug | RW | Yes | MLC | Gen10 |
| 877827-B21 | HPE 3.2TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card | 3,200 | MU | NVMe | AIC | Non-Hot Plug | AIC | Yes | MLC | Gen9 & 10 |

Technical Specifications

| PCIe/NVMe Interface – SKUs (Capacity, Workload, Carrier...) | | | | | | | | | | |
|---|---|----------|---------------|----------------|-------------|--------------|--------------|--------------------------------|------------|---|
| HPE Option Kit SKU | Long Description | Capacity | Workload Type | Interface Type | Form Factor | Plug Type | Carrier Type | Digitally Signed Firmware (DS) | Flash Type | Server Gen Supported (Select Platforms) |
| 877998-B21 | HPE 3.2TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 3,200 | MU | NVMe | SFF | Hot Plug | SCN | Yes | MLC | Gen9 & 10 |
| P03614-B21 | HPE 3.2TB NVMe x4 Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 3,200 | MU | NVMe | SFF | Hot Plug | RW | Yes | MLC | Gen10 |
| 877829-B21 | HPE 6.4TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card | 6,400 | MU | NVMe | AIC | Non-Hot Plug | AIC | Yes | MLC | Gen9 & 10 |
| 875579-B21 | HPE 480GB NVMe x4 Lanes Read Intensive M.2 22110 3yr Wty Digitally Signed Firmware SSD | 480 | RI | NVMe | M.2 | #N/A | #N/A | Yes | MLC | Gen9 & 10 |
| 875587-B21 | HPE 480GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 480 | RI | NVMe | SFF | Hot Plug | SCN | Yes | MLC | Gen9 & 10 |
| 875581-B21 | HPE 960GB NVMe x4 Lanes Read Intensive M.2 22110 3yr Wty Digitally Signed Firmware SSD | 960 | RI | NVMe | M.2 | #N/A | #N/A | Yes | MLC | Gen9 & 10 |
| 875589-B21 | HPE 960GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 960 | RI | NVMe | SFF | Hot Plug | SCN | Yes | MLC | Gen9 & 10 |
| 877984-B21 | HPE 1TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 1,000 | RI | NVMe | SFF | Hot Plug | SCN | Yes | MLC | Gen9 & 10 |
| P03616-B21 | HPE 1TB NVMe x4 Read Intensive SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 1,000 | RI | NVMe | SFF | Hot Plug | RW | Yes | MLC | Gen10 |
| 875591-B21 | HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 1,920 | RI | NVMe | SFF | Hot Plug | SCN | Yes | MLC | Gen9 & 10 |
| 877986-B21 | HPE 2TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 2,000 | RI | NVMe | SFF | Hot Plug | SCN | Yes | MLC | Gen9 & 10 |

Technical Specifications

| PCIe/NVMe Interface – SKUs (Capacity, Workload, Carrier...) | | | | | | | | | | |
|---|--|----------|---------------|----------------|-------------|--------------|--------------|--------------------------------|------------|---|
| HPE Option Kit SKU | Long Description | Capacity | Workload Type | Interface Type | Form Factor | Plug Type | Carrier Type | Digitally Signed Firmware (DS) | Flash Type | Server Gen Supported (Select Platforms) |
| P03618-B21 | HPE 2TB NVMe x4 Read Intensive SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 2,000 | RI | NVMe | SFF | Hot Plug | RW | Yes | MLC | Gen10 |
| 877831-B21 | HPE 4TB PCIe x4 Lanes Read Intensive HHHHL 3yr Wty Digitally Signed Firmware Card | 4,000 | RI | NVMe | AIC | Non-Hot Plug | AIC | Yes | MLC | Gen9 & 10 |
| 877988-B21 | HPE 4TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 4,000 | RI | NVMe | SFF | Hot Plug | SCN | Yes | MLC | Gen9 & 10 |

Technical Specifications

| PCIe/NVMe Interface – SKUs (Speeds and Feeds) | | | | | | | |
|---|---|----------------------|----------------|---|---|---|--|
| HPE Option Kit SKU | Long Description | Lifetime Writes (TB) | Endurance DWPD | MAX Seq Reads / Max Seq Writes Throughput (MiB/s) | Random Read Avg. / Random Write Avg. Latency uSec (4KiB,Q1) | Random Read / Random Writes IOPS (4KiB, Q=16) | MAX Random Read / MAX Random Write IOPS (4KiB) |
| 878014-B21 | HPE 375GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 20,500 | 30.0 | 2,550 / 2,150 | 17 / 17 | 585,000 / 550,000 | 585,000@Q16 550,000@Q16 |
| 878038-B21 | HPE 750GB PCIe x4 Lanes Write Intensive HHHL 3yr Wty Digitally Signed Firmware Card | 41,000 | 30.0 | 2,550 / 2,300 | 17 / 18 | 575,000 / 580,000 | 575,000@Q16 580,000@Q16 |
| 875583-B21 | HPE 400GB NVMe x4 Lanes Mixed Use M.2 22110 3yr Wty Digitally Signed Firmware SSD | 2,475 | 3.0 | 2,300 / 490 | 100 / 40 | 122,500 / 24,500 | 215,000@Q64 24,500@Q1 |
| 875593-B21 | HPE 400GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 2,475 | 3.0 | 2,040 / 490 | 100 / 40 | 125,000 / 24,500 | 220,000@Q64 24,500@Q16 |
| 875585-B21 | HPE 800GB NVMe x4 Lanes Mixed Use M.2 22110 3yr Wty Digitally Signed Firmware SSD | 4,950 | 3.0 | 2,300 / 575 | 100 / 31 | 132,500 / 32,000 | 240,000@Q64 32,000@Q16 |
| 875595-B21 | HPE 800GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 4,950 | 3.0 | 2,400 / 840 | 100 / 32 | 135,000 / 32,000 | 245,000@Q64 32,000@Q16 |
| 875597-B21 | HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 9,900 | 3.0 | 2,400 / 840 | 100 / 32 | 140,000 / 40,000 | 245,000@Q64 40,000@Q16 |
| 877825-B21 | HPE 1.6TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card | 8,700 | 5.0 | 5,700 / 2,145 | 80 / 22 | 180,000 / 130,000 | 900,000@Q256 135,000@Q32 |
| 877994-B21 | HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 8,520 | 2.9 | 3,200 / 1,400 | 86 / 17 | 155,000 / 185,000 | 585,000@Q256 185,000@Q16 |
| P03612-B21 | HPE 1.6TB NVMe x4 Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 8,520 | 2.9 | 3,200 / 1,400 | 86 / 17 | 155,000 / 185,000 | 585,000@Q256 185,000@Q16 |
| 877827-B21 | HPE 3.2TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card | 17,500 | 5.0 | 6,400 / 2,800 | 80 / 22 | 180,000 / 160,000 | 900,000@Q256 175,000@Q32 |

Technical Specifications

| PCIe/NVMe Interface – SKUs (Speeds and Feeds) | | | | | | | |
|---|---|----------------------|----------------|---|---|---|--|
| HPE Option Kit SKU | Long Description | Lifetime Writes (TB) | Endurance DWPD | MAX Seq Reads / Max Seq Writes Throughput (MiB/s) | Random Read Avg. / Random Write Avg. Latency uSec (4KiB,Q1) | Random Read / Random Writes IOPS (4KiB, Q=16) | MAX Random Read / MAX Random Write IOPS (4KiB) |
| 877998-B21 | HPE 3.2TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 17,050 | 2.9 | 3,200 / 2,000 | 86 / 17 | 165,000 / 240,000 | 675,000@Q256 240,000@Q16 |
| P03614-B21 | HPE 3.2TB NVMe x4 Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 17,050 | 2.9 | 3,200 / 2,000 | 86 / 17 | 165,000 / 240,000 | 675,000@Q256 240,000@Q16 |
| 877829-B21 | HPE 6.4TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card | 35,000 | 5.0 | 6,400 / 2,800 | 80 / 22 | 180,000 / 160,000 | 900,000@Q256 175,000@Q32 |
| 875579-B21 | HPE 480GB NVMe x4 Lanes Read Intensive M.2 22110 3yr Wty Digitally Signed Firmware SSD | 480 | RI | NVMe | M.2 | #N/A | #N/A |
| 875581-B21 | HPE 960GB NVMe x4 Lanes Read Intensive M.2 22110 3yr Wty Digitally Signed Firmware SSD | 960 | RI | NVMe | M.2 | #N/A | #N/A |
| 875587-B21 | HPE 480GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 480 | RI | NVMe | SFF | Hot Plug | SCN |
| 875589-B21 | HPE 960GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 960 | RI | NVMe | SFF | Hot Plug | SCN |
| 875591-B21 | HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 1,920 | RI | NVMe | SFF | Hot Plug | SCN |
| 877831-B21 | HPE 4TB PCIe x4 Lanes Read Intensive HHHL 3yr Wty Digitally Signed Firmware Card | 4,000 | RI | NVMe | AIC | Non-Hot Plug | AIC |
| 877984-B21 | HPE 1TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 1,000 | RI | NVMe | SFF | Hot Plug | SCN |
| 877986-B21 | HPE 2TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 2,000 | RI | NVMe | SFF | Hot Plug | SCN |

Technical Specifications

| PCIe/NVMe Interface – SKUs (Speeds and Feeds) | | | | | | | |
|---|--|----------------------|----------------|--|---|---|--|
| HPE Option Kit SKU | Long Description | Lifetime Writes (TB) | Endurance DWPD | MAX Seq Reads / Max Seq Writes Throughput (MB/s) | Random Read Avg. / Random Write Avg. Latency uSec (4KiB,Q1) | Random Read / Random Writes IOPS (4KiB, Q=16) | MAX Random Read / MAX Random Write IOPS (4KiB) |
| 877988-B21 | HPE 4TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 4,000 | RI | NVMe | SFF | Hot Plug | SCN |
| P03616-B21 | HPE 1TB NVMe x4 Read Intensive SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 1,000 | RI | NVMe | SFF | Hot Plug | RW |
| P03618-B21 | HPE 2TB NVMe x4 Read Intensive SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | 2,000 | RI | NVMe | SFF | Hot Plug | RW |

Technical Specifications

| PCIe/NVMe Interface – (Power & Height) | | | | | | | | |
|--|---|-------------------------|---------------------------|----------------------------|-------------------------------|--------------------------------|--------------------------|-----------------------------|
| HPE Option Kit SKU | Long Description | Power Idle Time (Watts) | Power Random Read (Watts) | Power Random Write (Watts) | Power Sequential Read (Watts) | Power Sequential Write (Watts) | Power Random R/W (Watts) | z- Height |
| 878014-B21 | HPE 375GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 4.00 | 5.16 | 5.16 | 8.50 | 12.20 | 5.16 | 15mm |
| 878038-B21 | HPE 750GB PCIe x4 Lanes Write Intensive HHHL 3yr Wty Digitally Signed Firmware Card | 4.70 | 9,8 | 9.80 | 9.50 | 13.90 | 9.80 | Half Height/ Half Length |
| 875583-B21 | HPE 400GB NVMe x4 Lanes Mixed Use M.2 22110 3yr Wty Digitally Signed Firmware SSD | 2.60 | 4.50 | 5.50 | 6.50 | 7.50 | 5.00 | 22110 M.2 |
| 875593-B21 | HPE 400GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 3.22 | 3.46 | 7.68 | 6.40 | 7.51 | 5.51 | 7mm |
| 875585-B21 | HPE 800GB NVMe x4 Lanes Mixed Use M.2 22110 3yr Wty Digitally Signed Firmware SSD | 2.60 | 4.50 | 5.50 | 6.50 | 7.50 | 5.00 | 22110 M.2 |
| 875595-B21 | HPE 800GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 3.22 | 6.40 | 10.70 | 6.72 | 6.85 | 6.89 | 7mm |
| 875597-B21 | HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 3.22 | 7.58 | 11.58 | 7.01 | 7.79 | 7.81 | 7mm |
| 877825-B21 | HPE 1.6TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card | 8.00 | 20.0 | 18.00 | 21.00 | 21.00 | 19.0 | Half Height/ Half length |
| 877994-B21 | HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | <5.00 | 12.00 | 13.80 | 9.00 | 14.20 | 13.00 | 15mm |
| P03612-B21 | HPE 1.6TB NVMe x4 Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | <5.00 | 12.00 | 13.80 | 9.00 | 14.20 | 13.00 | 15mm |
| 877827-B21 | HPE 3.2TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card | 8.00 | 20.0 | 18.00 | 23.00 | 22.00 | 19.0 | Half Height/ Half length |

Technical Specifications

| PCIe/NVMe Interface – (Power & Height) | | | | | | | | |
|--|---|-------------------------|---------------------------|----------------------------|-------------------------------|--------------------------------|--------------------------|-----------------------------|
| HPE Option Kit SKU | Long Description | Power Idle Time (Watts) | Power Random Read (Watts) | Power Random Write (Watts) | Power Sequential Read (Watts) | Power Sequential Write (Watts) | Power Random R/W (Watts) | z- Height |
| 877998-B21 | HPE 3.2TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | <5.00 | 13.80 | 17.20 | 10.00 | 21.00 | 17.00 | 15mm |
| P03614-B21 | HPE 3.2TB NVMe x4 Mixed Use SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | <5.00 | 13.80 | 17.20 | 10.00 | 21.00 | 17.00 | 15mm |
| 877829-B21 | HPE 6.4TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card | 8.00 | 20.0 | 18.00 | 23.00 | 22.00 | 19.0 | Half Height/ Half length |
| 875579-B21 | HPE 480GB NVMe x4 Lanes Read Intensive M.2 22110 3yr Wty Digitally Signed Firmware SSD | 2.60 | 4.50 | 5.50 | 6.50 | 7.50 | 5.00 | 22110 M.2 |
| 875581-B21 | HPE 960GB NVMe x4 Lanes Read Intensive M.2 22110 3yr Wty Digitally Signed Firmware SSD | 2.60 | 4.50 | 5.50 | 6.50 | 7.50 | 5.00 | 22110 M.2 |
| 875587-B21 | HPE 480GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 3.22 | 3.43 | 7.85 | 5.70 | 7.71 | 5.88 | 7mm |
| 875589-B21 | HPE 960GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 3.22 | 5.31 | 11.56 | 5.22 | 11.04 | 6.53 | 7mm |
| 875591-B21 | HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 3.22 | 3.63 | 12.07 | 4.52 | 12.07 | 6.52 | 7mm |
| 877831-B21 | HPE 4TB PCIe x4 Lanes Read Intensive HHHL 3yr Wty Digitally Signed Firmware Card | <5.00 | 14.80 | 17.70 | 10.70 | 20.50 | 16.10 | Half Height/ Half length |
| 877984-B21 | HPE 1TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | <5.00 | 10.10 | 11.65 | 10.90 | 10.70 | 10.80 | 15mm |
| 877986-B21 | HPE 2TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | <5.00 | 11.35 | 12.90 | 9.62 | 13.45 | 12.00 | 15mm |

Technical Specifications

| PCIe/NVMe Interface – (Power & Height) | | | | | | | | |
|--|--|-------------------------|---------------------------|----------------------------|-------------------------------|--------------------------------|--------------------------|-----------|
| HPE Option Kit SKU | Long Description | Power Idle Time (Watts) | Power Random Read (Watts) | Power Random Write (Watts) | Power Sequential Read (Watts) | Power Sequential Write (Watts) | Power Random R/W (Watts) | z- Height |
| 877988-B21 | HPE 4TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | <5.00 | 12.50 | 14.80 | 9.50 | 18.30 | 13.50 | 15mm |
| P03616-B21 | HPE 1TB NVMe x4 Read Intensive SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | <5.00 | 10.10 | 11.65 | 10.90 | 10.70 | 10.80 | 15mm |
| P03618-B21 | HPE 2TB NVMe x4 Read Intensive SFF (2.5in) RW 3yr Wty Digitally Signed Firmware SSD | <5.00 | 11.35 | 12.90 | 9.62 | 13.45 | 12.00 | 15mm |

NOTE: Please use HPE Selector Tool <http://ssd.hpe.com/> to determine server compatibility.

Inbox NVMe Drivers

Inbox NVMe drivers for the operating systems listed below have been tested on HPE NVMe SSDs and Add-in Cards. Check the specifications for the HPE server of interest to determine if it supports one of these Operating Systems.

- Windows Server 2016
- Windows Server 2012R2
- Red Hat Enterprise Linux Server 6.5
- Red Hat Enterprise Linux Server 7.0
- SUSE Linux Enterprise Server 12
- Ubuntu 14.04 VMWare vSphere 6.1

Technical Specifications

| M.2 Enablement Kits – (Capacity, Workload, Carrier...) | | | | | | | | | | |
|--|--|----------|---------------|----------------|-------------|--------------|--------------|--------------------------------|------------|---|
| HPE Option Kit SKU | Long Description | Capacity | Workload Type | Interface Type | Form Factor | Plug Type | Carrier Type | Digitally Signed Firmware (DS) | Flash Type | Server Gen Supported (Select Platforms) |
| 878783-B21* | HPE Universal SATA HHHL 3yr Wty M.2 Kit | N/A | N/A | SATA | M.2e | Non-Hot Plug | AIC | Yes | N/A | Gen9 & 10 |
| P06607-B21** | HPE Dual 240GB SATA 6G Mixed Use M.2 - UFF to SFF SCM 3yr Wty Digitally Signed Firmware SSD | 480 | MU | SATA | SFF | Hot Plug | SCM | Yes | MLC | Gen10 |
| P06609-B21** | HPE Dual 480GB SATA 6G Read Intensive M.2 - UFF to SFF SCM 3yr Wty Digitally Signed Firmware SSD | 960 | RI | SATA | SFF | Hot Plug | SCM | Yes | MLC | Gen10 |

NOTE: *878783-B21 enablement Kit is an Add-In-Card, for installation inside of the server, that can be configured to be either Single or Dual with choice of any SATA 2280 M.2 in the HPE M.2 portfolio. See SATA M.2s in Tables above.

M.2 Enablement Kits – (Speeds & Feeds)

**Speeds and Feeds information should be taken from the M.2 drives used within the enablement kits. See SATA M.2s in tables above and below.

| M.2 Enablement Kits – (Power & Height) | | | | | | | | |
|--|--|-------------------------|---------------------------|----------------------------|-------------------------------|--------------------------------|--------------------------|-----------------------------|
| HPE Option Kit SKU | Long Description | Power Idle Time (Watts) | Power Random Read (Watts) | Power Random Write (Watts) | Power Sequential Read (Watts) | Power Sequential Write (Watts) | Power Random R/W (Watts) | z-Height |
| 878783-B21* | HPE Universal SATA HHHL 3yr Wty M.2 Kit | NA | NA | NA | NA | NA | NA | Half Height/ Half Length |
| P06607-B21 | HPE Dual 240GB SATA 6G Mixed Use M.2 - UFF to SFF SCM 3yr Wty Digitally Signed Firmware SSD | 2.00 | 2.84 | 2.84 | 3.90 | 5.74 | 2.84 | 7mm |
| P06609-B21 | HPE Dual 480GB SATA 6G Read Intensive M.2 - UFF to SFF SCM 3yr Wty Digitally Signed Firmware SSD | 2.00 | 2.84 | 2.84 | 3.90 | 5.74 | 2.84 | 7mm |

*Power information should be taken from the M.2 drives used within the enablement kits. See SATA M.2s in tables above and below.

NOTE: *878783-B21 enablement Kit is an Add-In-Card, for installation inside of the server, that can be configured to be either Single or Dual with choice of any SATA 2280 M.2 in the HPE M.2 portfolio. See SATA M.2s in Tables above.

NOTE: Please use HPE Selector Tool <http://ssd.hpe.com/> to determine server compatibility

Technical Specifications

| M.2s- (Capacity, Workload, Carrier...) | | | | | | | | | | |
|--|--|----------|---------------|----------------|-------------|-----------|--------------|--------------------------------|------------|---|
| HPE Option Kit SKU | Long Description | Capacity | Workload Type | Interface Type | Form Factor | Plug Type | Carrier Type | Digitally Signed Firmware (DS) | Flash Type | Server Gen Supported (Select Platforms) |
| 875488-B21 | HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD | 240 | MU | SATA | M.2 | #N/A | #N/A | Yes | TLC | Gen9 & 10 |
| 875490-B21 | HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD | 480 | MU | SATA | M.2 | #N/A | #N/A | Yes | TLC | Gen9 & 10 |
| 875492-B21 | HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD | 960 | MU | SATA | M.2 | #N/A | #N/A | Yes | TLC | Gen9 & 10 |
| 875498-B21 | HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD | 480 | RI | SATA | M.2 | #N/A | #N/A | Yes | TLC | Gen9 & 10 |
| 875500-B21 | HPE 960GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD | 960 | RI | SATA | M.2 | #N/A | #N/A | Yes | TLC | Gen9 & 10 |
| 875583-B21 | HPE 400GB NVMe x4 Lanes Mixed Use M.2 22110 3yr Wty Digitally Signed Firmware SSD | 400 | MU | NVMe | M.2 | #N/A | #N/A | Yes | MLC | Gen9 & 10 |
| 875585-B21 | HPE 800GB NVMe x4 Lanes Mixed Use M.2 22110 3yr Wty Digitally Signed Firmware SSD | 800 | MU | NVMe | M.2 | #N/A | #N/A | Yes | MLC | Gen9 & 10 |
| 875579-B21 | HPE 480GB NVMe x4 Lanes Read Intensive M.2 22110 3yr Wty Digitally Signed Firmware SSD | 480 | RI | NVMe | M.2 | #N/A | #N/A | Yes | MLC | Gen9 & 10 |
| 875581-B21 | HPE 960GB NVMe x4 Lanes Read Intensive M.2 22110 3yr Wty Digitally Signed Firmware SSD | 960 | RI | NVMe | M.2 | #N/A | #N/A | Yes | MLC | Gen9 & 10 |

Technical Specifications

| M.2s- (Speeds & Feeds) | | | | | | | |
|------------------------|--|----------------------|----------------|---|---|---|--|
| HPE Option Kit SKU | Long Description | Lifetime Writes (TB) | Endurance DWPD | MAX Seq Reads / Max Seq Writes Throughput (MiB/s) | Random Read Avg. / Random Write Avg. Latency uSec (4KiB,Q1) | Random Read / Random Writes IOPS (4KiB, Q=16) | MAX Random Read / MAX Random Write IOPS (4KiB) |
| 875488-B21 | HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD | 650 | 1.5 | 500 / 260 | 135 / 40 | 60,000 / 34,000 | 66,000@Q32 34,000@Q4 |
| 875490-B21 | HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD | 1,300 | 1.5 | 500 / 400 | 130 / 40 | 60,000 / 34,000 | 68,000@Q32 34,000@Q4 |
| 875492-B21 | HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD | 4,400 | 2.6 | 500 / 465 | 130 / 40 | 60,000 / 30,000 | 68,000@Q32 30,000@Q4 |
| 875498-B21 | HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD | 450 | 0.5 | 500 / 425 | 130 / 40 | 61,000 / 46,000 | 67,000@Q32 46,000@Q64 |
| 875500-B21 | HPE 960GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD | 900 | 0.5 | 500 / 465 | 130 / 40 | 61,000 / 41,000 | 67,000@Q32 41,000@Q4 |
| 875583-B21 | HPE 400GB NVMe x4 Lanes Mixed Use M.2 22110 3yr Wty Digitally Signed Firmware SSD | NVMe | 2,475 | 3.0 | 2,300 / 490 | 100 / 40 | 122,500 / 24,500 |
| 875585-B21 | HPE 800GB NVMe x4 Lanes Mixed Use M.2 22110 3yr Wty Digitally Signed Firmware SSD | NVMe | 4,950 | 3.0 | 2,300 / 575 | 100 / 31 | 132,500 / 32,000 |
| 875579-B21 | HPE 480GB NVMe x4 Lanes Read Intensive M.2 22110 3yr Wty Digitally Signed Firmware SSD | 775 | 0.3 | 2,375 / 485 | 100 / 105 | 120,000 / 9,500 | 215,000@Q64 9,500@Q1 |
| 875581-B21 | HPE 960GB NVMe x4 Lanes Read Intensive M.2 22110 3yr Wty Digitally Signed Firmware SSD | 1,550 | 0.3 | 2,375 / 515 | 100 / 80 | 130,000 / 12,400 | 240,000@Q64 12,400@Q1 |

Technical Specifications

| M.2s- (Power & Height) | | | | | | | | |
|------------------------|--|-------------------------|---------------------------|----------------------------|-------------------------------|--------------------------------|--------------------------|-----------|
| HPE Option Kit SKU | Long Description | Power Idle Time (Watts) | Power Random Read (Watts) | Power Random Write (Watts) | Power Sequential Read (Watts) | Power Sequential Write (Watts) | Power Random R/W (Watts) | z- Height |
| 875488-B21 | HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD | 1.07 | 3.00 | 3.00 | 3.21 | 3.90 | 2.95 | 2280 M.2 |
| 875490-B21 | HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD | 1.07 | 3.02 | 3.02 | 3.42 | 4.03 | 3.00 | 2280 M.2 |
| 875492-B21 | HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD | 1.07 | 3.17 | 3.17 | 3.82 | 5.62 | 3.10 | 2280 M.2 |
| 875498-B21 | HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD | 1.07 | 3.02 | 3.02 | 3.42 | 4.03 | 3.00 | 2280 M.2 |
| 875500-B21 | HPE 960GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD | 1.07 | 3.17 | 3.17 | 3.82 | 5.62 | 3.10 | 2280 M.2 |
| 875583-B21 | HPE 400GB NVMe x4 Lanes Mixed Use M.2 22110 3yr Wty Digitally Signed Firmware SSD | 2.60 | 4.50 | 5.50 | 6.50 | 7.50 | 5.00 | 22110 M.2 |
| 875585-B21 | HPE 800GB NVMe x4 Lanes Mixed Use M.2 22110 3yr Wty Digitally Signed Firmware SSD | 2.60 | 4.50 | 5.50 | 6.50 | 7.50 | 5.00 | 22110 M.2 |
| 875579-B21 | HPE 480GB NVMe x4 Lanes Read Intensive M.2 22110 3yr Wty Digitally Signed Firmware SSD | 2.60 | 4.50 | 5.50 | 6.50 | 7.50 | 5.00 | 22110 M.2 |
| 875581-B21 | HPE 960GB NVMe x4 Lanes Read Intensive M.2 22110 3yr Wty Digitally Signed Firmware SSD | 2.60 | 4.50 | 5.50 | 6.50 | 7.50 | 5.00 | 22110 M.2 |

Technical Specifications

Previous To Current Workload Naming Conversion

Please use the table below for comparing older SSD models to the newer workload descriptions.

| Previous Workload | Current Workload Alignment |
|---------------------------|---------------------------------|
| (HE) High Endurance | (WI) Write Intensive (>25 DWPD) |
| (ME) Mainstream Endurance | (WI) Mixed-Use (>10 DWPD) |
| (LE) Light Endurance | (MU) Mixed Use (>1 & <10 DWPD) |
| (VE) Value Endurance | (RI) Read Intensive (<=1 DWPD) |

Carrier Key Decoder

HPE Solid State Drives (SSDs) utilize a wide variety of carriers, which houses the SSD and also enables a specific chassis fit to support a broad range of HPE server and storage products.

The table below summarizes the various form factors, plug types, and carrier attributes.

| Carriers | | | | |
|-------------|--------------|-----------------|-------------------------------|---------|
| Form Factor | HP/NHP | Smart/Non-Smart | Carrier Name (Abbreviation) | SFF/LFF |
| SFF Carrier | Hot Plug | Smart | Smart Carrier (SC) | SFF |
| | | | Smart Carrier NVMe (SCN) | SFF |
| | | | Smart Carrier M.2 (SCM) | SFF |
| | Non-Hot Plug | Non-Smart | Standard (ST) | SFF |
| | | | Quick Release (QR) | SFF |
| LFF Carrier | Hot Plug | Smart | Smart Carrier (SC) | LFF |
| | | | Smart Carrier Converter (SCC) | LFF |
| | | | Low Profile (LP) | LFF |
| | Non-Hot Plug | Non-Smart | Low Profile Converter (LPC) | LFF |
| | | | Standard (ST) | LFF |
| | | | Quick Release (QR) | LFF |
| No Carrier | Non-Hot Plug | Non-Smart | Raw SFF HDD/SSD (RW) | SFF |
| | | | Raw LFF HDD (RW) | LFF |
| | | | M.2 | N/A |
| | | | PCIe AIC Card | N/A |

Technical Specifications

The following charts are provided to assist in decoding the SSD short & long product descriptions; additional details can also be found within the Carrier Key Decoder & the Previous To Current Workload Naming Conversion tables within this document.

SAS and SATA SSD SKU Decoders

SSD SKU Decoder
Long Name

HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD

| Brand | Storage Capacity | Interface Type/ Interface Speed | Workload | Form Factor Type / Form Factor Size | Carriers | Wty | Special Features | Drive Type |
|-------|-------------------------|------------------------------------|--|--|--|--------------------|--|------------|
| HPE | 120-960GB 1.6-12.8TB | SATA/SAS 6G/12G | Write Intensive Mixed Use Read Intensive | SFF (2.5IN) LFF (3.5IN) | SC Smart Carrier SCN Smart Carrier NVMe SCM Smart Carrier M.2 SCC Smart Carrier Converter ST Standard STC Standard Converter LP Low Profile LPC Low Profile Converter QR Quick Release RW Raw Drive | 3yr Wty 1yr Wty | Digitally Signed Firmware SED Self Encrypting Drive <i>In priority order where 1st is closest to Drive Type</i> | SSD |

SSD SKU Decoder
Short Name

HPE 3.84TB SATA RI SFF SC DS SSD

| Brand | Storage Capacity | Interface Type | Workload | Form Factor Type | Carriers | Special Features | Drive Type |
|-------|-------------------------|----------------|----------------|------------------|--|---|------------|
| HPE | 120-960GB 1.6-12.8TB | SATA/SAS | WI MU RI | SFF LFF | SC Smart Carrier SCN Smart Carrier NVMe SCM Smart Carrier M.2 SCC Smart Carrier Converter ST Standard STC Standard Converter LP Low Profile LPC Low Profile Converter QR Quick Release RW Raw Drive | DS Digitally Signed Firmware SED Self Encrypting Drive <i>In priority order where 1st is closest to drive type</i> | SSD |

NVMe SSDs SKU Decoder
Long Name

HPE 1TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD

| Brand | Storage Capacity | Interface Type/ Interface Speed | Workload | Form Factor Type / Form Factor Size | Carriers | Wty | Special Features | Drive Type |
|-------|--------------------|------------------------------------|--|--|------------------------|--------------------|---|------------|
| HPE | 400-960GB 1-8TB | NVMe/ x4 Lanes | Write Intensive Mixed Use Read Intensive | SFF (2.5IN) HHHL/FHHL | SCN Smart Carrier NVMe | 3yr Wty 1yr Wty | Digitally Signed Firmware <i>In priority order where 1st is closest to Drive Type</i> | SSD |

Technical Specifications

NVMe SSDs SKU Decoder
Short Name

HPE 1TB NVMe x4 RI SFF SCN DS SSD

| Brand | Storage Capacity | Interface Type | Workload | Form Factor Type | Carriers | Special Features | Drive Type |
|-------|-------------------------|----------------|----------------|------------------|------------------------|--|------------|
| HPE | 120-960GB 1.6-12.8TB | NVMe x4 | WI MU RI | SFF HH FH | SCN Smart Carrier NVMe | DS Digitally Signed Firmware <i>In priority order where 1st is closest to Drive Type</i> | SSD |

M.2 SSDs SKU Decoder
Long Name

HPE 960GB NVMe x4 Lanes Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD

| Brand | Storage Capacity | Interface Type/ Interface Speed | Workload | Form Factor Type / Form Factor Size | Wty | Special Features | Drive Type |
|-------|--------------------|---------------------------------|--|-------------------------------------|--------------------|---------------------------|------------|
| HPE | 400-960GB 1-8TB | NVMe x4 Lanes/ SATA 6Gb | Write Intensive Mixed Use Read Intensive | M.2/ 2280/22110 | 3yr Wty 1yr Wty | Digitally Signed Firmware | SSD |

M.2 SSDs SKU Decoder
Short Name

HPE 960GB NVMe x4 Lanes RI M.2 2280 DS SSD

| Brand | Storage Capacity | Interface Type/ Interface Speed | Workload | Form Factor Type / Form Factor Size | Special Features | Drive Type |
|-------|--------------------|---------------------------------|----------------|-------------------------------------|------------------------------|------------|
| HPE | 400-960GB 1-8TB | NVMe x4 / SATA 6Gb | WI MU RI | M.2/ 2280/22110 | DS Digitally Signed Firmware | SSD |

M.2 eKits SKU Decoder
Long Name

HPE 340GB SATA Read Intensive HHHL 3yr Wty Dual M.2 Kit

| Brand | Storage Capacity | Interface Type/ Interface Speed | Workload | Form Factor Type / Form Factor Size | Wty | Special Features | Drive Type |
|-------|---------------------|---------------------------------|--|-------------------------------------|--------------------|------------------------------|------------|
| HPE | 150-960GB 1.92TB | SATA/ NVMe | Write Intensive Mixed Use Read Intensive | HHHL FHHL UFF | 3yr Wty 1yr Wty | Dual Quad Blank=Single | M.2 Kit |

Technical Specifications

M.2 eKits SKU Decoder
Short Name

HPE 340GB SATA RI HH Dual M.2 Kit

| Brand | Storage Capacity | Interface Type/ Interface Speed | Workload | Form Factor Type / Form Factor Size | Special Features | Drive Type |
|-------|---------------------|------------------------------------|----------------|--|------------------------------|------------|
| HPE | 150-960GB 1.92TB | SATA/ NVMe | WI MU RI | HH FH UFF | Dual Quad Blank=Single | M.2 Kit |

Add-In Card SKU Decoder
Long Name

HPE 1.6TB PCIe x4 Lanes Read Intensive HHHL 3yr Wty Digitally Signed Firmware Card

| Brand | Storage Capacity | Interface Type/ Interface Speed | Workload | Form Factor Type / Form Factor Size | Wty | Special Features | Drive Type |
|-------|--------------------|------------------------------------|--|--|--------------------|---------------------------|------------|
| HPE | 400-960GB 1-8TB | PCIe x4 Lanes | Write Intensive Mixed Use Read Intensive | HHHL FHHL Mezz | 3yr Wty 1yr Wty | Digitally Signed Firmware | Card |

AIC SKU Decoder
Short Name

HPE 1.6TB PCIe x4 RI HH DS Card

| Brand | Storage Capacity | Interface Type/ Interface Speed | Workload | Form Factor Type / Form Factor Size | Special Features | Drive Type |
|-------|--------------------|------------------------------------|----------------|--|-----------------------------------|------------|
| HPE | 400-960GB 1-8TB | PCIe x4 | WI MU RI | FH/HH Mezz | DS (Digitally Signed Firmware) | Card |

Environment friendly Products and Approach End-of life Management and Recycling

Hewlett Packard Enterprise offers end-of-life **product return, trade-in, and recycling programs**, in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE Directive (2012/19/EU) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the **Hewlett Packard Enterprise web site**. These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

Summary of Changes

| Date | Version History | Action | Description of Change |
|-------------|-----------------|---------|---|
| 15-Oct-2018 | Version 21 | Changed | Technical Specifications Section was updated |
| 01-Oct-2018 | Version 20 | Changed | New drive models added. Technical Specifications revised and updated. |
| 06-Aug-2018 | Version 19 | Changed | New drive models added. Technical Specifications revised and updated. |
| 02-Jul-2018 | Version 18 | Changed | Overview and SKU description were updated. |
| 04-Jun-2018 | Version 17 | Changed | New drive models added. Technical Specifications revised and updated. |
| 02-Apr-2018 | Version 16 | Changed | New drive models added, Technical Specifications revised and updated. |
| 05-Mar-2018 | Version 15 | Changed | Technical Specifications revised and updated, images revised |
| 05-Feb-2018 | Version 14 | Changed | Format Revised |
| | | Added | New drive models added |
| 04-Dec-2017 | Version 13 | Added | New drive model was added. |
| | | Changed | Technical Specifications were revised. |
| 02-Oct-2017 | Version 12 | Changed | Technical Specifications were revised. |
| 25-Sep-2017 | Version 11 | Added | New drive models were added. |
| | | Changed | Technical Specifications were revised The title was changed to HPE Solid State Disk Drives (SSD & Add-In Cards). |
| 14-Aug-2017 | Version 10 | Changed | Technical Specifications were revised |
| 07-Aug-2017 | Version 9 | Changed | Technical Specifications were revised |
| 17-Jul-2017 | Version 8 | Changed | Technical Specifications were revised |
| 28-Jun-2017 | Version 7 | Changed | Technical Specifications were revised. |
| 12-Jun-2017 | Version 6 | Changed | Technical Specifications were revised. |
| 06-Jun-2017 | Version 5 | Changed | Technical Specifications were revised. |
| 17-Mar-2017 | Version 4 | Changed | SSD Selection verbiage was revised. |
| 10-Mar-2017 | Version 3 | Changed | Edits to tables and various verbiage. |
| 17-Feb-2017 | Version 2 | Changed | Technical Specifications were revised. |
| 13-Feb-2017 | Version 1 | New | New QuickSpecs. |



© Copyright 2018 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.

Microsoft and Windows NT are US registered trademarks of Microsoft Corporation. Intel is a US registered trademark of Intel Corporation.

For hard drives, 1GB = 1 billion bytes. Actual formatted capacity is less.

a00001288enw - 15831 - Worldwide - V21 - 15-October-2018

