QuickSpecs

Overview

HPE Hard Disk Drives

HPE Hard Disk Drives (HDDs) are engineered to deliver optimum performance, reliability, compatibility, and data security across HPE server and storage platforms making them the preferred choice for workloads ranging from small businesses to large enterprise.

Performance

- HPE HDDs are tuned and tested with on-going quality monitoring throughout their lifecycle
- HPE optimizes HDD firmware for predictable and consistent HDD performance
- Full portfolio of high-performance Mission Critical and high-capacity Business Critical drive solutions

Reliability

- Hewlett Packard Enterprise's industry-leading rigorous testing and qualification program, backed by 2.4 million test hours
- Pre-failure Alerts with HPE Smart Array Controller, Systems Insight Manager, and HPE Smart firmware
- 3x faster firmware and software updates with HPE Service Pack for ProLiant (HPE SPP)
- Best-in-class supply assurance program reduces downtime due to product delays

Compatibility

- Simplify HDD planning and standardize HDDs across HPE server and storage solutions
- Common HDD carriers mean re-purposing drives in other servers is a snap

Security

- HPE Digitally Signed Firmware helps prevent against malicious attacks
- HPE Smart Array SR Secure Encryption is a FIPS 140-2 Level 1 validated enterprise class controller-based encryption solution for data-at-rest on all SAS/SATA drives
- HPE Smart Carriers report drive activity and health
- Self-Encrypting Drives (SEDs) provide hardware-based data encryption. All data that is committed to the media is encrypted with either a 128-bit or 256-bit key.

HPE HDDs are available for three types of workloads: Enterprise high-performance (Mission Critical), Midline high-capacity (Business Critical) and Entry-level storage solutions.

HPE HDD port	folio: Proven perforn	nance for every worklo	ad	
Class	Mission Critical (E	nterprise)	Business Critical (Midline)	Entry*
Workload	High		Medium	Low
Usage	Mission-critical, hi	gh I/O:	Business Critical, High capacity,	Low I/O:
	Email, enterprise re	source planning (ERP),	high availability storage:	Boot and
	customer relationsh	ip management (CRM)	Backup, archive, reference	backup
Interface	SAS 12Gb		SAS 12Gb	SATA 6Gb
			SATA 6Gb	
RPM	15000	10000	7200	7200
Form factor	SFF & LFF	SFF	SFF & LFF	LFF
Capacities	Up to 900GB	Up to 2.4TB	Up to 20TB	Up to 4TB
Warranty	3 years	3 years	1 year	1 year
Notes: * Support	ted on select HPE ProLi	ant servers only.		

Overview

What's New

 Comprehensive offering in HPE Mission Critical 10K/15K and Business Critical 7.2K SFF Basic Carrier Portfolio by adding more capacities.

P53560-B21 HPE 600GB SAS 12G Mission Critical 15K SFF BC 3-year Warranty Multi Vendor HDD
 P53561-B21 HPE 600GB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD
 P53562-B21 HPE 1.8TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Multi Vendor HDD
 P53563-B21 HPE 1TB SAS 12G Business Critical 7.2K SFF BC 1-year Warranty HDD

Notes: A -B21 suffix may be replaced with -H21 and -K21 to support across different server family lines. Please refer to the appropriate Server QuickSpecs for full compatibility details

Firmware Updates

Digitally Signed Firmware – Prevent unauthorized access to your data with the expansion of integrated HPE Digitally Signed Firmware (DS) on new drives; providing the security and assurance that drive firmware comes from a trusted source and protects against malicious attacks.

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 protect data-at-rest on any bulk attached storage. This solution meets stringent compliance regulations such as HIPAA and Sarbanes-Oxley.

Standard Features

Models

Category	Interface	Form	Forma	tCapacity	HDD Carrier		
		Factor			Smart Carrier SKU	Low Profile SKU	Basic Carrier SKU
Mission		SFF		300GB	870753-B21		P28028-B21
Critical				600GB	870757-B21		P53560-B21
15K rpm)				900GB	870759-B21		P40432-B21
Mission			512n	300GB	872475-B21		P40430-B21
Critical 10K rpm)				600GB	872477-B21		P53561-B21
TOK IPIII)				1.2TB	872479-B21		P28586-B21
		SFF		1.8TB	872481-B21		P53562-B21
				2.4TB	881457-B21		P28352-B21
dission Critical		SFF	512n	1.2TB			P28622-B21
(10K rpm) Self-		SFF	512e	2.4TB			P28618-B21
Encrypting Orives (SED)							

Standard Features

Category	Interface	Form	Format	Capacity	HDD Carrier		
Business	SAS 12G	Factor			Smart Carrier SKU	Low Profile SKU	Basic Carrier SKU
Critical (7.2K rpm)		LFF	512n	2TB	872485-B21	833926-B21	
(, , , , , , , , , , , , , , , , , , ,				4TB	872487-B21	833928-B21	-
		LFF	512e	6ТВ	861754-B21	861746-B21	
				8TB	819201-B21	834031-B21	
				10TB	P53558-B21	P53556-B21	
				10TB	857644-B21 ^{He}	P09149-B21 He	
				12TB	881779-B21 ^{He}	881781-B21 He	
				14TB	P09153-B21 He	P09155-B21 He	
				16TB	P23863-B21 He	P23608-B21 He	-
				18TB	P37664-B21 He	P37669-B21 He	
				20TB	P53552-B21 ^{He}	P53553-B21 ^{He}	
		SFF	512n	1TB	832514-B21		P53563-B21
			512e	2TB	765466-B21		P28505-B21
S	SATA 6G	LFF	512n	1TB	861691-B21	861686-B21	
				2TB	872489-B21	861681-B21	-
				4TB	872491-B21	861683-B21	
			512e	6ТВ	861750-B21	861742-B21	
				8TB	819203-B21	834028-B21	
				10TB	P53559-B21	P53557-B21	
				10TB	857648-B21 ^{He}	P09161-B21 ^{He}	
				12TB	881785-B21 ^{He}	881787-B21 ^{He}	
				14TB	P09163-B21 ^{He}	P09165-B21 ^{He}	
				16TB	P23857-B21 He	P23449-B21 He	
				18TB	P37673-B21 He	P37678-B21 He	
				20TB	P53555-B21 ^{He}	P53554-B21 ^{He}	
		SFF		2TB	765455-B21		P28500-B21
			512n	1TB	655710-B21		P28610-B21
Category	Interface	Form	Format	Capacity	HDD Carrier		
ntry	SATA 6G	Factor			Non Hot Plug Carrie	er SKU	
(7.2K)		LFF	512e	1TB	843266-B21*		
			512n	1TB	801882-B21		
Notes:				4TB	801888-B21		

Notes:

- Helium Drive.
- *Also known as "Desktop Drive", this drive has Generic Firmware (Non-HPE)
- A -B21 suffix may be replaced with -H21 and -K21 to support across different server family lines. Please refer to the appropriate Server QuickSpecs for full compatibility details.

Standard Features

What is HPE Hard disk drive?

Hewlett Packard Enterprise drives are tuned to deliver optimum performance for HPE Servers. They undergo an intense qualification process to eliminate firmware and O/S incompatibilities. HPE drive firmware is designed to maximize both functionality and compatibility with HPE ProLiant Rack and Tower Servers, Apollo family, Blade and Synergy Platforms.

Drive Quality and Performance

While selecting the drives in our HPE portfolio, only those drives with a performance level suitable for an enterprise environment are selected through the Hewlett Packard Enterprise qualification process and are labeled "best-in-class."

Pre-Failure Alert

When used in conjunction with a SMART Array Controller and Systems Insight Manager, the SMART capable firmware in HPE hard drives enables extensive fault prediction capabilities. If potential problems develop in one of the drives, the Smart Array Controller, Systems Insight Manager and/or SMART hard disk drive lets you know in advance so you can have the drive replaced, before it fails, under warranty

Notes: All drives are protected by a Pre-Failure Alert when used with a HPE Smart Array controller and Systems Insight Manager, allowing hard drives to be replaced before failure under warranty. In addition, all drives are covered by a one or three-year limited on-site warranty period for the system in which they are installed. The drive warranty is automatically uplifted when used in a server or MSA for which a HPE Pointnext service contract is purchased. Please see the Support Services section below for additional services.

Smart Carriers

HPE Hard Drives with smart carriers are designed to provide an interface to communicate critical status and management information. System status LED icons and a spinning activity ring reflecting the data-writing process notify users of the current system status. A blue LED located behind the handle can be activated remotely to guide users to a specific drive tray, while a do-not-remove icon positioned on the tray's eject button lights up to warn users when the removal of the drive would cause data loss.

Helium Drives

Although hard drives are sealed, they have air inside. Air can create turbulence-induced risk vibrations which can limit the storage density of HDDs. Newer helium-filled drives virtually eliminate turbulence because helium is 1/7th as dense as air. This lower density allows the read/write mechanism to spin more easily and precisely, with less drag. Less internal turbulence means the drive platters can be closer together, allowing more platters and increasing the capacity potential in the same space. Less turbulence also means helium drives tend to use less power, and run cooler and quieter.

Support Matrix

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

https://www.hpe.com/us/en/servers/server-options.html

Warranty

Enterprise hard drives have a 3 year limited warranty regardless of the warranty period for the system in which they are installed. Midline hard drives have a 1 year limited warranty regardless of the warranty period for the system in which they are installed.

Service and Support

HPE Pointnext - Service and Support

Get the most from your HPE Products. Get the expertise you need at every step of your IT journey with **HPE Pointnext Services**. We help you lower your risks and overall costs using automation and methodologies that have been tested and refined by HPE experts through thousands of deployments globally. HPE Pointnext **Advisory Services**, focus on your business outcomes and goals, partnering with you to design your transformation and build a roadmap tuned to your unique challenges. Our **Operational Services** can be leveraged to speed up time-to-production, boost performance and accelerate your business. HPE Pointnext specializes in flawless and on-time implementation, on-budget execution, and creative configurations that get the most out of software and hardware alike.

Consume IT on your terms

HPE GreenLake brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake accelerates digital transformation in a distributed, edge-to-cloud world.

- Get faster time to market
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

Managed services to run your IT operations

HPE GreenLake Management Services provides services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation.

Recommended Services

HPE Pointnext Tech Care.

HPE Pointnext Tech Care is the new operational service experience for HPE products. Tech Care goes beyond traditional support by providing access to product specific experts, an Al driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Pointnext Tech Care has been reimagined from the ground up to support a customer-centric, Al driven, and digitally enabled customer experience to move your business forward. HPE Pointnext Tech Care is available in three response levels. Basic, which provides 9x5 business hour availability and a 2 hour response time. Essential which provides a 15 minute response time 24x7 for most enterprise level customers, and Critical which includes a 6 hour repair commitment where available and outage management response for severity 1 incidents.

https://www.hpe.com/services/techcare

HPE Pointnext Complete Care

HPE Pointnext Complete Care is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment and achieving agreed upon IT outcomes and business goals through a personalized and customercentric experience. All delivered by an assigned team of HPE Pointnext Services experts. HPE Pointnext Complete Care provides:

- A complete coverage approach -- edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

https://www.hpe.com/services/completecare

Service and Support

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 24x7monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Tech Care Service and HPE Complete 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.

Notes:

- ¹IDC Whitepaper
- 2HPE 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

https://support.hpe.com/hpesc/public/home

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.

Notes: 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 QuickSpecs, 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

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.

For more information

To learn more on services for HPE Server 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 https://www.hpe.com/us/en/storage/entry-level.html

Technical Specifications

HDD Specifications

Mission Critic	al (15K rpm)								
Form Factor		SFF (2.5"	<u>'</u>)	Carrier		Smart Ca	rrier (SC)		
Rotational Spe	ed	15000 rp	om	Dimensi	ons				
Interface		SAS		Height		0.62 in (15.6 mm)		
Transfer Rate	Synchronous (Max)	12Gb/se	С	Width		2.98 in (75.7 mm)		
Bytes/Sector		512		Depth		4.67 in (118.7 mm))	
Operating Ten	nperature	50° to 95° F (10° to 35°C)							
SKU	SKU Description	OD Media Rate, Max Sequential Throughput (MiB/s)	128Kib Random Rd (IOPs)	128Kib Random 70% RD/ 30% WT (IOPs)	128Kib Random 50% RD/ 50% WT (IOPs)	Power Idle Time (Watts)	Power Sequential Write (Watts)		
870753-B21	HPE 300GB SAS 12G Mission Critical 15K SFF SC 3-year Warranty Multi Vendor HDD	260	220	220	220	2.6	9'P Power Random R/W (Watts)	4.4	3.9
870757-B21	HPE 600GB SAS 12G Mission Critical 15K SFF SC 3-year Warranty Multi Vendor HDD	260	220	220	220	4.7	6.1	6.3	6.3
870759-B21	HPE 900GB SAS 12G Mission Critical 15K SFF SC 3-year Warranty Multi Vendor HDD	260	220	220	220	4.7	6.1	6.3	6.3

Mission Critic	cal (15K rpm)								
Form Factor		SFF (2.5	")	Carrier		Basic Ca	rrier (BC)		
Rotational Spe	eed	15000 r	pm	Dimensions					
Interface		SAS Height 0.62 in (15.6 mm)				n)			
Transfer Rate	Synchronous (Max)	12Gb/sec Width 2.98 in (75.7 mm)							
Bytes/Sector		512 Depth 4.67 in (118.7 mm)							
Operating Ten	nperature	50° to 9	5° F (10°						
SKU	SKU Description	OD Media Rate, Max Sequential Throughput (MiB/s)	128Kib Random Rd (IOPs)	128Kib Random 70% RD/ 30% WT (IOPs)	Random 70% 0% WT (10Ps) 0% WT (10Ps) 0% WT (10Ps) wer Idle Time (Watts) (Watts) er Sequential			Power Sequential Read (Watts)	Power Sequential Write (Watts)
P28028-B21	HPE 300GB SAS 12G Mission Critical 15K SFF BC 3-year Warranty Multi Vendor HDD	260	220	220	220	2.6	3.6	4.4	3.9

P53560-B21	HPE 600GB SAS 12G Mission Critical 15K SFF BC 3-year Warranty Multi Vendor HDD	260	220	220	220	4.7	6.1	6.3	6.4
P40432-B21	HPE 900GB SAS 12G Mission Critical 15K SFF BC 3-year Warranty Multi Vendor HDD	260	220	220	220	4.7	6.1	6.3	6.3

	14404								
Mission Critic	cai (10K rpm)	0== (0 = 11)		_			. (0.0)		
Form Factor		SFF (2.5")		Carrier		Smart Carr	ier (SC)		
Rotational Spe	eed	10000 rpm		Dimensions					
Interface		SAS Height 0.				0.62 in (15	5.6 mm)		
Transfer Rate	Synchronous (Max)	12Gb/sec		Width		2.98 in (75	5.7 mm)		
Bytes/Sector		512		Depth		4.67 in (11	.8.7 mm)		
Operating Ten	nperature	50° to 95° F	(10° to						
SKU	SKU Description	OD Media Rate, Max Sequential Throughput (MiB/s)	128Kib Random Rd	(IOPs) 128Kib Random 70% RD/ 30% WT (IOPs)	128Kib Random 50% RD/ 50%	Wil (IOPS) Power Idle Time (Watts)	Power Random R/W (Watts)	Power Sequential Read (Watts)	Power Sequential Write (Watts)
872475-B21	HPE 300GB SAS 12G Mission Critical 10K SFF SC 3-year Warranty Multi Vendor HDD	195	180	180	180	3.8	6.9	6.1	5.3
872477-B21	HPE 600GB SAS 12G Mission Critical 10K SFF SC 3-year Warranty Multi Vendor HDD	195	165	165	165	4.7	6.9	6.3	6.3
872479-B21	HPE 1.2TB SAS 12G Mission Critical 10K SFF SC 3-year Warranty Multi Vendor HDD	195	165	165	165	4.1	7.5	6.5	6.1
872481-B21	HPE 1.8TB SAS 12G Mission Critical 10K SFF SC 3-year Warranty 512e Multi Vendor HDD	230	165	170	185	2.6	3.6	4.4	3.9
881457-B21	HPE 2.4TB SAS 12G Mission Critical 10K SFF SC 3-year Warranty 512e Multi Vendor HDD	255	160	180	195	4.8	6.0	7.8	6.6

Technical Specifications

Mission Critica	l (10K rpm)									
Form Factor		SFF (2.5")	Carrier		Basic Ca	Basic Carrier (BC)			
Rotational Spee	d	10000 rp	m	Dimensi	ons					
Interface		SAS		Height		0.62 in (15.6 mm)			
Transfer Rate S	ynchronous (Max)	12Gb/sed	2	Width		2.98 in (75.7 mm)			
Bytes/Sector			512	Depth		4.67 in (118.7 mm)		
Operating Temp	perature	50° to 95	5° F (10° ⁻	to 35°C)						
SKU	SKU Description	OD Media Rate, Max Sequential Throughput (MiB/s)	128Kib Random Rd (IOPs)	128Kib Random 70% RD/ 30% WT (IOPs)	128Kib Random 50% RD/ 50% WT (IOPs)	Power Idle Time (Watts)	Power Random R/W (Watts)	Power Sequential Read (Watts)	Power Sequential Write (Watts)	
P40430-B21	HPE 300GB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD	195	180	180	180	3.8	6.9	6.1	5.3	
P53561-B21	HPE 600GB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD	200	165	165	165	4.7	6.1	6.3	6.4	
P28586-B21	HPE 1.2TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD	195	165	165	165	4.1	7.5	6.5	6.1	
P53562-B21	HPE 1.8TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Multi Vendor HDD	260	165	180	190	2.6	3.6	4.4	3.9	
P28352-B21	HPE 2.4TB SAS 12G Mission Critical 10K SFF BC	255	160	180	190	4.8	6	7.8	6.6	

3-year Warranty 512e Multi

Vendor HDD

Mission Critic	cal (10K rpm) Self-Encrypti	ng Drives (S	SED)							
Form Factor		SFF (2.5")		Carrier		Basic Carrie	er (BC)			
Rotational Spe	eed	10000 rpm		Dimensions						
Interface		SAS		Height		0.62 in (15	0.62 in (15.6 mm)			
Transfer Rate	Synchronous (Max)	12Gb/sec		Width		2.98 in (75	.7 mm)			
Bytes/Sector		512		Depth		4.67 in (11	.8.7 mm)			
Operating Ten	nperature	50° to 95° F	(10° to	35°C)			· · · · · · · · · · · · · · · · · · ·			
SKU	SKU Description	OD Media Rate, Max Sequential Throughput (MiB/s)	128Kib Random Rd	(IOPS) 128Kib Random 70% RD/ 30% WT (IOPS)	Kib	WT (IOPs) Power Idle Time (Watts)	Power Random R/W (Watts)	Power Sequential Read (Watts)	Power Sequential Write (Watts)	
P28622-B21	HPE 1.2TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Self- encrypting HDD	250	170	170	170	2.6	3.6	4.4	3.9	
P28618-B21	HPE 2.4TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Self- encrypting HDD	255	160	180	195	4.8	6.0	7.8	6.6	

Business Crit	ical (7.2K rpm)								
Form Factor		LFF (3.5"	<u>'</u>)	Carrier		Smart Ca	rrier (SC)		
Rotational Spe	eed	7200 rpr	n	Dimensio	ons				
Interface		SAS		Height		1.06 in (26.8 mm)		
Transfer Rate	Synchronous (Max)	12Gb/sed	C	Width		4.16 in (105.8 mm))	
Bytes/Sector	•	512		Depth		6.69 in (170.0 mm))	
Operating Ten	nperature	50° to 95	5° F (10° to	<u> </u>					
SKU	SKU Description					e e		D	<u>+</u>
		OD Media Rate, Max Sequential Throughput	128Kib Random Rd (IOPs)	128Kib Random 70% RD/ 30% WT	128Kib Random 50% RD/ 50% WT	Power Idle Time (Watts)	Power Random R/W (Watts)	Power Sequential Read (Watts)	Power Sequential Write (Watts)
872485-B21	HPE 2TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty Multi Vendor HDD	190	100	100	100	8.8	12.2	10.8	10.5
872487-B21	HPE 4TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty Multi Vendor HDD	190	100	100	100	8.8	12.2	10.8	10.5
861754-B21	HPE 6TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty 512e Multi Vendor HDD	200	100	105	110	8.8	12.2	10.8	10.5
819201-B21	HPE 8TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty 512e Multi Vendor HDD	230	100	110	110	8.3	11.3	10.6	10.2
P53558-B21	HPE 10TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty 512e ISE Multi Vendor HDD	225	105	110	115	5.2	9.2	8.3	7.6
857644-B21	HPE 10TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e Multi Vendor HDD	255	108	115	129	9.0	12.4	11.4	11.1
881779-B21	HPE 12TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e Multi Vendor HDD	235	105	115	125	6.3	8.7	7.6	7.3
P09153-B21	HPE 14TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e Multi Vendor HDD	250	105	115	120	5.7	9.2	8.2	7.8
P23863-B21	HPE 16TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e ISE Multi Vendor HDD	250	105	115	125	5.7	9.6	8.2	8.2

P37664-B21	HPE 18TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e ISE Multi Vendor HDD	260	108	115	127	6.1	9.9	8.6	8.8
P53552-B21	HPE 20TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e ISE Multi Vendor HDD	= 260 110 118 130 6.1 9.9		9.9	8.6	8.8			
Business Criti	cal (7.2K rpm)								
Form Factor	·	LFF (3.5"))	Carrier		Low Pro	file (LP)		
Rotational Spe	ed	7200 rpm	1	Dimens	ions	'			
Interface		SAS		Height		1.028 in	(26.1 mm)		
Transfer Rate	Synchronous (Max)	12Gb/sec		Width		4.15 in (105.5 mm)		
Bytes/Sector		512		Depth		6.16 in (156.58 mm))	
Operating Tem	perature	50° to 95	° F (10° to	35°C)					
SKU	SKU Description	OD Media Rate, Max Sequential Throughput	(MiB/s) 128Kib Pandom Pd	(10Ps) 128Kib Random	(10Ps) 30% W1 (10Ps)	50% KD/ 50% W1 (IOPs) Power Idle Time	Power Random R/W (Watts)	Power Sequential Read (Watts)	Power Sequential Write (Watts)
833926-B21	HPE 2TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	195	100	100	100	5.5	9.8	8.0	7.9
833928-B21	HPE 4TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	195	100	100	100	6.3	10.6	9.2	9.0
861746-B21	HPE 6TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD	215	100	110	110	6.5	11.0	9.9	9.5
834031-B21	HPE 8TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD	230	100	110	110	7.2	11.3	10.6	10.2
P09149-B21	HPE 10TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD	225	110	115	125	5.1	9.2	7.5	7.6
P53556-B21	HPE 10TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e ISE Multi Vendor HDD	255	108	115	129	8.2	12.2	11.4	11.1
881781-B21	HPE 12TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD	235	105	115	125	6.3	7.4	7.4	6.9

P09155-B21	HPE 14TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty	250)	105	115	120	5.1	9.2	7.8	7.8
	Helium 512e Multi Vendor HDD									
P23608-B21	HPE 16TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	Critical 7.2K LFF Warranty L2e ISE Multi		105	115	125	5.6	9.6	8.2	8.2
P37669-B21	HPE 18TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	260	0	108	115	127	5.7	9.7	8.3	8.3
P53553-B21	HPE 20TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	260)	110	118	130	6.1	9.9	8.6	8.8
	ical (7.2K rpm)									
Form Factor			LFF (3.5"	•	Carrie		Smart Ca	rrier (SC)		
Rotational Spe	eed		7200 rpn	n	Dimen		10/:-/	2 (0)		
Interface	Consideration (March		SATA		Heigh			26.8 mm)	`	
	Synchronous (Max)		6Gb/sec 512		Width			105.8 mm)		
Bytes/Sector			50° to 95	ог (10°	Depth		0.09 111 (170.0 mm))	
Operating Ten	SKU Description) F (10	1	1				
SKU	SKO Description		OD Media Rate, Max Sequential Throughput (MiB/s)	128Kib Random Rd (IOPs)	128Kib Random 70% RD/ 30% WT (IOPs)	128Kib Random 50% RD/ 50% WT (IOPs)	Power Idle Time (Watts)	Power Random R/W (Watts)	Power Sequential Read (Watts)	Power Sequential Write (Watts)
861691-B21	HPE 1TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty Multi Vendor HDD		185	90	90	90	8.8	12.2	10.8	10.5
872489-B21	HPE 2TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty Multi Vendor HDD		185	90	90	90	8.8	12.2	10.8	10.5
872491-B21	HPE 4TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty Multi Vendor HDD		190	100	100	100	8.8	12.2	10.8	10.5
861750-B21	HPE 6TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty 512e Multi Vendor HDD		215	100	100	105	8.8	12.2	10.8	10.5
819203-B21	HPE 8TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty 512e Multi Vendor HDD		230	100	110	110	7.2	10.8	10.1	9.8

857648-B21	HPE 10TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e Multi Vendor HDD	235	105	110	115	4.8	8.6	7.7	7.6
P53559-B21	HPE 10TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty 512e ISE Multi Vendor HDD	250	110	118	130	8.0	11.8	11.1	11.0
881785-B21	HPE 12TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e Multi Vendor HDD	235	105	115	125	6.3	8.5	8.2	7.7
P09163-B21	HPE 14TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e Multi Vendor HDD	250	105	115	120	5.6	9.3	7.9	8.4
P23857-B21	HPE 16TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e ISE Multi Vendor HDD	260	105	115	125	5.5	9.1	7.8	8.2
P37673-B21	HPE 18TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e ISE Multi Vendor HDD	265	108	115	127	5.6	9.3	8.1	8.4
P53555-B21	HPE 20TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e ISE Multi Vendor HDD	260	110	118	130	5.8	9.3	8.1	8.2

Business Crit	Business Critical (7.2K rpm)										
Form Factor	-	LFF (3.5'	")	Carrier		Low Pro	Low Profile (LP)				
Rotational Spe	eed	7200 rpr	n	Dimensions							
Interface		SATA		Height		1.028 ir	n (26.1 mm	1)			
Transfer Rate	Synchronous (Max)	6Gb/sec		Width		4.15 in	(105.5 mm	1)			
Bytes/Sector		512		Depth		6.16 in	(156.58 m	m)			
Operating Ter	nperature	50° to 95	5° F (10°	to 35°C)						
SKU	SKU Description	OD Media Rate, Max Sequential Throughput (MiB/s) 128Kib Random Rd (IOPs) 128Kib Random 70% RD/ 30% WT (IOPs) 128Kib Random 50% RD/ 50% WT (IOPs)		Power Idle Time (Watts)	Power Random R/W (Watts)	Power Sequential Read (Watts)	Power Sequential Write (Watts)				
861686-B21	HPE 1TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	185	90	90	90	4.4	7.7	6.4	6.6		
861681-B21	HPE 2TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	185	90	90	90	4.9	9.2	7.4	7.4		
861683-B21	HPE 4TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	195	100	100	100	5.9	10.1	8.6	8.5		

861742-B21	HPE 6TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD	215	100	100	105	5.9	10.5	8.9	8.8
834028-B21	HPE 8TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD	230	100	110	110	6.8	10.8	10.1	9.8
P09161-B21	HPE 10TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD	240	110	115	125	4.6	8.6	7.0	7.6
P53557-B21	HPE 10TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e ISE Multi Vendor HDD	250	110	118	130	7.9	11.8	11.1	11.0
881787-B21	HPE 12TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD	235	105	115	125	6.3	7.4	7.4	6.9
P09165-B21	HPE 14TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD	250	105	115	120	5.3	9.3	7.9	8.4
P23449-B21	HPE 16TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	260	105	115	125	5.1	9.1	7.7	8.2
P37678-B21	HPE 18TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	265	108	115	127	5.4	9.3	7.9	8.4
P53554-B21	HPE 20TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	260	110	118	130	5.6	9.3	8.1	8.2

Business Crit	ical (7.2K rpm)										
Form Factor		SFF (2.5"	')	Carrier		Smart C	Smart Carrier (SC)				
Rotational Spe	ed	7200 rpr	n	Dimensions							
Interface		SAS		Height		0.62 in ((15.6 mm)				
Transfer Rate	Synchronous (Max)	12Gb/se	С	Width		2.98 in ((75.7 mm)				
Bytes/Sector		512		Depth		4.67 in ((118.7 mm	1)			
Operating Ten	nperature	50° to 95	5° F (10° t	o 35°C)							
SKU	SKU Description	OD Media Rate, Max Sequential Throughput (MiB/s)	128Kib Random Rd (IOPs)	128Kib Random 70% RD/ 30% WT (IOPs)	128Kib Random 50% RD/ 50% WT (IOPs)	Power Idle Time (Watts)	Power Random R/W (Watts)	Power Sequential Read (Watts)	Power Sequential Write (Watts)		
832514-B21	HPE 1TB SAS 12G Business Critical 7.2K SFF SC 1-year Warranty HDD	130	105	105	105	2.6	3.6	4.4	3.9		
765466-B21	HPE 2TB SAS 12G Business Critical 7.2K SFF SC 1-year Warranty 512e HDD	130	105	105	105	2.6	3.6	4.4	3.9		

Business Crit	Business Critical (7.2K rpm)								
Form Factor		SFF (2.5'	")	Carrier			Basic Carrier (BC)		
Rotational Spe	ed	7200 rpr	n	Dimensions					
Interface		SAS		Height			0.62 in (15.6 mm)	
Transfer Rate	Synchronous (Max)	12Gb/se	С	Width			2.98 in (75.7 mm)	
Bytes/Sector			512	Depth			4.67 in (118.7 mm)
Operating Ten	ating Temperature 50° to 95° F (10° to 35°C)								
SKU	SKU Description	OD Media Rate, Max Sequential Throughput (MiB/s)	128Kib Random Rd (IOPs)	128Kib Random 70% RD/ 30% WT (IOPs)	128Kib Random 50% RD/ 50% WT (IOPs)	Power Idle Time (Watts)	Power Random R/W (Watts)	Power Sequential Read (Watts)	Power Sequential Write (Watts)
P53563-B21	HPE 1TB SAS 12G Business Critical 7.2K SFF BC 1-year Warranty HDD	130	105	105	105	2.6	3.6	4.4	3.9
P28505-B21	HPE 2TB SAS 12G Business Critical 7.2K SFF BC 1-year Warranty 512e HDD	130	105	105	105	2.6	3.6	4.4	3.9

Business Cri	tical (7.2K rpm)										
Form Factor		SFF (2.5"	SFF (2.5")			Smart C	Smart Carrier (SC)				
Rotational Sp	eed	7200 rpr	n	Dimensi	Dimensions						
Interface		SATA		Height		0.62 in	(15.6 mm)				
Transfer Rate	Synchronous (Max)	6Gb/sec		Width		2.98 in	(75.7 mm)				
Bytes/Sector		512		Depth		4.67 in	(118.7 mm	1)			
Operating Te	mperature	50° to 95	5° F (10° to	o 35°C)							
SKU	SKU Description	OD Media Rate, Max Sequential Throughput (MiB/s)	128Kib Random Rd (IOPs)	128Kib Random 70% RD/ 30% WT (IOPs)	128Kib Random 50% RD/ 50% WT (IOPs)	Power Idle Time (Watts)	Power Random R/W (Watts)	Power Sequential Read (Watts)	Power Sequential Write (Watts)		
655710-B21	HPE 1TB SATA 6G Business Critical 7.2K SFF SC 1-year Warranty HDD	130	105	105	105	2.6	3.6	4.4	3.9		
765455-B21	HPE 2TB SATA 6G Business Critical 7.2K SFF SC 1-year Warranty 512e HDD	130	105	105	105	2.6	3.6	4.4	3.9		

Business Crit	Business Critical (7.2K rpm)										
Form Factor	·	SFF (2.5"	SFF (2.5")		Carrier		Basic Carrier (SC)				
Rotational Spe	eed	7200 rpn	n	Dimensi	ons						
Interface		SATA		Height		0.62 in	(15.6 mm)				
Transfer Rate	Synchronous (Max)	6Gb/sec		Width		2.98 in	(75.7 mm)				
Bytes/Sector		512		Depth		4.67 in	(118.7 mm	1)			
Operating Ten	nperature	50° to 95	5° F (10° to	o 35°C)							
SKU	SKU Description	OD Media Rate, Max Sequential Throughput (MiB/s)	128Kib Random Rd (IOPs)	128Kib Random 70% RD/ 30% WT (IOPs)	128Kib Random 50% RD/ 50% WT (IOPs)	Power Idle Time (Watts)	Power Random R/W (Watts)	Power Sequential Read (Watts)	Power Sequential Write (Watts)		
P28610-B21	HPE 1TB SATA 6G Business Critical 7.2K SFF BC 1-year Warranty HDD	130	105	105	105	2.6	3.6	4.4	3.9		
P28500- B21	HPE 2TB SATA 6G Business Critical 7.2K SFF BC 1-year Warranty 512e HDD	130	105	105	105	2.6	3.6	4.4	3.9		

Technical Specifications

Entry	Entry									
Form Factor		LFF (3.5"	")	Carrier		Non Hot Plug Carrier (RW)				
Rotational Spe	eed	7200 rpr	n	Dimensions						
Interface		SATA		Height		1.028 in	(26.1 mm)		
Transfer Rate	Synchronous (Max)	6Gb/sec		Width		4.00 in ((101.6 mm)		
Bytes/Sector		512		Depth		5.75 in ((146.0 mm)		
Operating Ten	nperature	50° to 95	5° F (10° t	o 35°C)						
SKU	SKU Description	OD Media Rate, Max Sequential Throughput (MiB/s)	128Kib Random Rd (IOPs)	128Kib Random 70% RD/ 30% WT (IOPs)	128Kib Random 50% RD/ 50% WT (IOPs)	Power Idle Time (Watts)	Power Random R/W (Watts)	Power Sequential Read (Watts)	Power Sequential Write (Watts)	
843266-B21	HPE 1TB SATA 6G Entry 7.2K LFF RW 1-year Warranty HDD	N/A	N/A	N/A	N/A	2.6	3.6	4.4	3.9	
801882-B21	HPE 1TB SATA 6G Business Critical 7.2K LFF RW 1-year Warranty Multi Vendor HDD	160	95	95	95	8.8	12.2	10.8	10.5	
801888-B21	HPE 4TB SATA 6G Business Critical 7.2K LFF RW 1-year Warranty Multi Vendor HDD	160	95	95	95	8.8	12.2	10.8	10.5	

Carrier Decoder

HPE Hard Disk Drives (HDDs) utilize a wide variety of carriers, which houses the HDD 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.

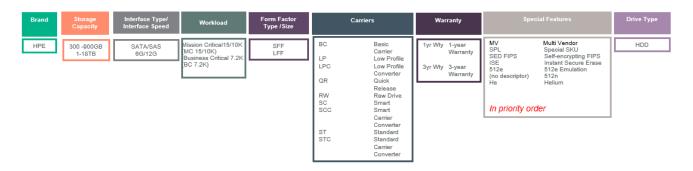
			SFF C	arriers	LFF	Carrie	rs
Server Family	Server Model	Generation	Smart Carrier (SCI)/(SCC)	Basic Carrier (BC)	Smart Carrier (SCI)/(SCC)	Low Profile (LP)/(LPC)	Raw Carrier(RW)/(AKA NPH)
	HPE ProLiant DL						
	HPE ProLiant DL20 Gen10 Plus Server	Gen10 Plus		Yes		Yes	Yes
	HPE ProLiant DL160 Gen10 Server	Gen10	Yes			Yes	-
	HPE ProLiant DL180 Gen10 Server	Gen10	Yes			Yes	_
	HPE ProLiant DL325 Gen10 Server	Gen10	Yes			Yes	_
	HPE ProLiant DL325 Gen10 Plus Server	Gen10 Plus	Yes			Yes	-
	HPE ProLiant DL325 Gen10 Plus V2 Server	Gen10 Plus V2		Yes		Yes	_
	HPE ProLiant DL345 Gen10 Plus Server	Gen10 Plus		Yes		Yes	
	HPE ProLiant DL360 Gen10 Server	Gen10	Yes		Yes		
	HPE ProLiant DL360 Gen10 Plus Server	Gen10 Plus		Yes		Yes	-
	HPE ProLiant DL365 Gen10 Plus Server	Gen10 Plus		Yes		Yes	
HPE ProLiant	HPE ProLiant DL380 Gen10 Server	Gen10	Yes		Yes		
	HPE ProLiant DL380 Gen10 Plus Server	Gen10 Plus		Yes		Yes	
	HPE ProLiant DL385 Gen10 Server	Gen10	Yes		Yes		
	HPE ProLiant DL385 Gen10 Plus Server	Gen10 Plus	Yes			Yes	_
	HPE ProLiant DL385 Gen10 Plus V2 Server	Gen10 Plus V2		Yes		Yes	
	HPE ProLiant DL 560 Gen10 Server	Gen10	Yes				
	HPE ProLiant DL 580 Gen10 Server	Gen10	Yes				
	HPE ProLiant ML		_				
	HPE ProLiant MicroServer Gen10	Gen10 Plus					Yes
	HPE ProLiant ML30 Gen10 Server	Gen10	Yes			Yes	Yes
	HPE ProLiant ML30 Gen10 Plus Server	Gen10 Plus		Yes		Yes	Yes
	HPE ProLiant ML110 Gen10 Server	Gen10	Yes			Yes	Yes
	HPE ProLiant ML350 Gen10 Server	Gen10	Yes			Yes	Yes
	HPE Synergy						
	HPE Synergy 480 Gen10 Compute Module	Gen10	Yes				
HPE Synergy	HPE Synergy 480 Gen10 Compute Module	Gen10 Plus	Yes				
	HPE Synergy 660 Gen10 Compute Module	Gen10	Yes				
	HPE Synergy D3940 Storage Module		Yes				

Technical Specifications

HDD SKU Description Decoder

Long Name

HPE 18TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e ISE Multi Vendor HDD



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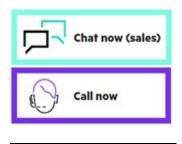
Summary of Changes

Date	Version History	Action	Description of Change
07-Nov-2022	Version 31	Changed	SKUs Names were updated
01-Aug-2022	Version 30	Changed	Tables were fixed, Overview and Technical Specifications Sections were
			updated
06-Jun-2022	Version 29	Changed	Technical Specifications Section was updated
17-Jan-2022	Version 28	Changed	Technical Specifications Section was updated
06-Dec-2021	Version 27	Changed	Technical Specifications Section was updated
15-Nov-2021	Version 26	Changed	Service and Support Section was updated
04-Oct-2021	Version 25	Changed	SKUs Names were updated
12-Jul-2021	Version 23	Changed	Technical Specifications Section was updated
06-Jul-2021	Version 22	Changed	Overview and Technical Specifications Sections were updated
06-Apr-2021	Version 21	Changed	Tables were fixed, Overview and Technical Specifications Sections were updated
01-Feb-2021	Version 20	Changed	Overview and Technical Specifications Sections were updated
20-Jul-2020	Version 19	Changed	Overview and Technical Specifications Sections were updated
01-Jun-2020	Version 18	Changed	SKUs were Added in Overview Section
03-Feb-2020	Version 17	Changed	Overview Section was updated
09-Dec-2020	Version 16	Changed	Added new HPE 16TB Midline 7.2K LFF (3.5in) Helium 512e Digitally
			Signed Firmware HDD models.
02-Dec-2019	Version 15	Changed	Technical Specifications and Overview Sections were updated
03-Jun-2019	Version 14	Changed	Technical Specifications and Overview Sections were updated
04-Feb-2019	Version 13	Changed	Technical Specifications and Overview Sections were updated
15-Oct-2018	Version 12	Changed	Technical Specifications was revised.
01-Oct-2018	Version 11	Changed	Overview, Standard Features, Service and Support, and Technical
			Specifications were revised.
04-Sep-2018	Version 10	Changed	Technical Specifications Section was updated
04-Jun-2018	Version 9	Changed	P04695-B21 HPE 600GB Enterprise 15K SAS 12G LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware HDD P04693-B21 HPE 300GB Enterprise 15K SAS 12G LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware HDD Power specs for all drives Seek time specs to IOPs From Recommended to Extended: 861590-B21, 861594-B21, 861596-B21 From Extended to Recommended: 801882-B21, 881787-X21
05-Mar-2018	Version 8	Changed	Overview, Service and Support, and Technical Specifications were revised.
05-Feb-2018	Version 7	Changed	Added new HPE 12TB Midline 7.2K SAS LFF (3.5in) Helium 512e Digitally Signed Firmware HDD models: 881779-B21, 881781 -X21 , 881783-B21 Change format to breakout recommended and extended portfolios.
			Obsolete SKUs
04-Dec-2017	Version 6	Changed	Added new HPE 12TB Midline 7.2K LFF (3.5in) Helium 512e Digitally Signed Firmware HDD models. Overview, Service and Support, and Technical Specifications were revised. Obsolete SKUs were removed from the QuickSpecs.
23-Oct-2017	Version 5	Changed	Part number 881458-B21 was changed to 881457 -X21 . Care Pack references changed to HPE Pointnext operational services.
25-Sep-2017	Version 4	Changed	Added 881458-B21 HPE 2.4TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD Overview, Standard Features, Service and Support, and Technical Specifications were revised.
12-Jun-2017	Version 3	Changed	Overview and Technical Specifications were revised.
27-Mar-2017	Version 2	Changed	Added new HDD offering.

Summary of Changes

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

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