

HPE Hard Disk Drives

QuickSpecs

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.

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 Hard Disk Drives

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 malicious attacks.
- HPE Smart Array SR Secure Encryption is an 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 portfolio: Proven performance for every workload			
Class	Mission Critical (Enterprise)	Business Critical (Midline)	Entry*
Workload	High	Medium	Low

Usage	Mission-critical, high I/O: Email, enterprise resource planning (ERP), customer relationship management (CRM)	Business Critical, High capacity, high availability storage: Backup, archive, reference	Low I/O: Boot and backup
Interface	SAS 12 Gb	SAS 12 Gb SATA 6 Gb	SATA 6 Gb
RPM	10000	7200	7200
Form factor	SFF	LFF	LFF
Capacities	Up to 2.4 TB	Up to 26 TB	Up to 4 TB
Warranty	3 years	1 year	1 year

Notes: * Supported on select HPE ProLiant servers only.

What's New

- Introduced largest capacity 26 TB in Business Critical 7.2K LFF Low-Profile Carrier Portfolio.
 - o P80577-B21HPE 26 TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD
 - o P80578-B21HPE 26 TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor 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 Factor	Format	Capacity	HDD Carrier		
					Smart Carrier SKU	Low Profile SKU	Basic Carrier SKU
Mission Critical (10K rpm)	SAS 12G	SFF	512n	300GB	872475-B21		P40430-B21
				600GB	872477-B21		P53561-B21
				1.2TB	872479-B21		P28586-B21
		SFF	512e	1.8TB	872481-B21		P53562-B21
				2.4TB	881457-B21		P28352-B21
Mission Critical (10K rpm) Self-Encrypting Drives (SED)	SAS 12G	SFF	512n	1.2TB			P28622-B21
		SFF	512e	2.4TB			P28618-B21

Models							
Category	Interface	Form Factor	Format	Capacity	HDD Carrier		
Business Critical (7.2K rpm)	SAS 12G	LFF	512n	2TB	Smart Carrier SKU	Low Profile SKU	Basic Carrier SKU
				4TB	872487-B21	833926-B21	
		LFF	512e	6TB		833928-B21	
				8TB	819201-B21	861746-B21	
				12TB	881779-B21 ^{He}	834031-B21	
				16TB		881781-B21 ^{He}	
				20TB		P23608-B21 ^{He}	
				24TB		P53553-B21 ^{He}	
				26TB		P68583-B21 ^{He}	
						P80577-B21 ^{He}	
	SATA 6G	LFF	512n	1TB		861686-B21	
				2TB		861681-B21	
				4TB	872491-B21	861683-B21	
			512e	6TB		861742-B21	
				8TB	819203-B21	834028-B21	
				12TB	881785-B21 ^{He}	881787-B21 ^{He}	
				16TB		P23449-B21 ^{He}	
				20TB		P53554-B21 ^{He}	
				24TB		P68585-B21 ^{He}	
				26TB		P80578-B21 ^{He}	

Models					
Category	Interface	Form Factor	Format	Capacity	HDD Carrier
Entry (7.2K)	SATA 6G		512n		Non-Hot Plug Carrier SKU
				HPE 1TB SATA 6G Business Critical 7.2K LFF RW 1-year Warranty Multi Vendor HDD	801882-B21
				HPE 4TB SATA 6G Business Critical 7.2K LFF RW 1-year Warranty Multi Vendor HDD	801888-B21

Notes:

- ^{He} Helium Drive.
- 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.

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 HPE management software the SMART capable firmware in HPE hard drives enables extensive fault prediction capabilities. If potential problems develop in one of the drives, these components allow you to evaluate the drive performance before it fails.

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

For the most up-to-date information on HPE Services, please refer to the [HPE Services - Supplemental QuickSpecs](#), which provides a comprehensive and regularly updated overview of available services.

Technical Specifications

HDD Specifications

Mission Critical (10K rpm)			
Form Factor	SFF (2.5")	Carrier	Smart Carrier (SC)
Rotational Speed	10000 rpm	Dimensions	

Interface		SAS		Height		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 (118.7 mm)			
Operating 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)
872475-B21	HPE 300GB SAS 12G Mission Critical 10K SFF SC 3-year Warranty Multi Vendor HDD	195	170	170	170	4.7	6.1	6.3	6.4
872477-B21	HPE 600GB SAS 12G Mission Critical 10K SFF SC 3-year Warranty Multi Vendor HDD	195	165	165	165	4.7	6.1	6.3	6.4
872479-B21	HPE 1.2TB SAS 12G Mission Critical 10K SFF SC 3-year Warranty Multi Vendor HDD	195	165	165	165	4.0	7.5	6.5	5.9
872481-B21	HPE 1.8TB SAS 12G Mission Critical 10K SFF SC 3-year Warranty 512e Multi Vendor HDD	230	165	170	185	4.6	6.9	6.0	5.8
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

Mission Critical (10K rpm)									
Form Factor		SFF (2.5")		Carrier		Basic Carrier (BC)			
Rotational Speed		10000 rpm		Dimensions					
Interface		SAS		Height		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 (118.7 mm)			
Operating 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)
P40430-B21	HPE 300GB SAS 12G Mission Critical 10K	195	170	170	170	4.7	6.9	6.3	6.4

	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	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 3-year Warranty 512e Multi Vendor HDD	255	160	180	190	4.8	6	7.8	6.6

Mission Critical (10K rpm) Self-Encrypting Drives (SED)

Form Factor		SFF (2.5")		Carrier		Basic Carrier (BC)			
Rotational Speed		10000 rpm		Dimensions					
Interface		SAS		Height		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 (118.7 mm)			
Operating 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)
P28622-B21	HPE 1.2TB SAS 12G Mission Critical 10K SFF BC 3yr Wty TAA-compliant 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 3yr Wty 512e TAA-compliant HDD	255	160	180	195	4.8	6.0	7.8	6.6

Business Critical (7.2K rpm)

Form Factor		LFF (3.5")		Carrier		Smart Carrier (SC)			
Rotational Speed		7200 rpm		Dimensions					
Interface		SAS		Height		1.06 in (26.8 mm)			
Transfer Rate Synchronous (Max)		12Gb/sec		Width		4.16 in (105.8 mm)			
Bytes/Sector		512		Depth		6.69 in (170.0 mm)			
Operating 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)

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
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	8.0	8.7
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	8.7	9.1
P53552-B21	HPE 20TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e ISE Multi Vendor HDD	260	105	118	130	6.1	9.9	8.6	8.9

Business Critical (7.2K rpm)

Form Factor	LFF (3.5")	Carrier	Low Profile (LP)
Rotational Speed	7200 rpm	Dimensions	
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 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)
833926-B21	HPE 2TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	195	100	100	100	8.8	12.2	10.8	10.5
833928-B21	HPE 4TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	195	100	100	100	8.8	12.2	10.8	10.5
861746-B21	HPE 6TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD	215	100	110	110	8.8	12.2	10.8	10.5
834031-B21	HPE 8TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD	230	100	110	110	8.3	11.3	10.6	10.2
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	8.7	8.0	8.7
P23608-B21	HPE 16TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	250	105	115	125	5.7	9.6	8.7	9.1

Business Critical (7.2K rpm)									
Form Factor		LFF (3.5")		Carrier		Low Profile (LP)			
Rotational Speed		7200 rpm		Dimensions					
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 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)
P53553-B21	HPE 20TB SAS 12G Business Critical 7.2K LFF	260	105	118	130	6.1	9.9	8.6	8.9

	LP 1-year Warranty Helium 512e ISE Multi Vendor HDD								
P68583-B21	HPE 24TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	271	106	135	164	5.9	9.6	8.7	9.3
P80577-B21	HPE 26TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	278	117	152	197	5.9	9.6	8.0	7.9

Business Critical (7.2K rpm)

Form Factor		LFF (3.5")		Carrier		Smart Carrier (SC)			
Rotational Speed		7200 rpm		Dimensions					
Interface		SATA		Height		1.06 in (26.8 mm)			
Transfer Rate Synchronous (Max)		6Gb/sec		Width		4.16 in (105.8 mm)			
Bytes/Sector		512		Depth		6.69 in (170.0 mm)			
Operating 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)
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	230	100	110	110	7.2	10.8	10.1	9.8

	Multi Vendor HDD								
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	8.1
P23857-B21	HPE 16TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e ISE Multi Vendor HDD	258	105	115	125	5.5	9.1	7.8	8.4
P53555-B21	HPE 20TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e ISE Multi Vendor HDD	249	110	118	130	5.8	9.3	8.1	8.6

Business Critical (7.2K rpm)									
Form Factor		LFF (3.5")		Carrier		Low Profile (LP)			
Rotational Speed		7200 rpm		Dimensions					
Interface		SATA		Height		1.028 in (26.1 mm)			
Transfer Rate Synchronous (Max)		6Gb/sec		Width		4.15 in (105.5 mm)			
Bytes/Sector		512		Depth		6.16 in (156.58 mm)			
Operating 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)
861686-B21	HPE 1TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	185	90	90	90	8.8	12.2	10.8	10.5
861681-B21	HPE 2TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	185	90	90	90	8.8	12.2	10.8	10.5
861683-B21	HPE 4TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	195	100	100	100	8.8	12.2	10.8	10.5
861742-B21	HPE 6TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD	215	100	100	105	8.8	12.2	10.8	10.5
834028-B21	HPE 8TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty	230	100	110	110	7.2	10.8	10.1	9.8

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)
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.

Server Family	Server Model	Generation	SFF Carriers		LFF Carriers		
			Smart Carrier (SC)	Basic Carrier (BC)	Smart Carrier (SC)	Low Profile (LP)	Raw Carrier(RW)/(AKA NPH)
HPE ProLiant	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 DL320 Gen11	Gen11		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 DL325 Gen11 Server	Gen11		Yes		Yes	
	HPE ProLiant DL345 Gen10 Plus Server	Gen10 Plus		Yes		Yes	

HPE ProLiant DL345 Gen11 Server	Gen11		Yes		Yes	
HPE ProLiant DL360 Gen10 Server	Gen10	Yes		Yes		
HPE ProLiant DL360 Gen10 Plus Server	Gen10 Plus		Yes		Yes	
HPE ProLiant DL360 Gen11	Gen11		Yes		Yes	
HPE ProLiant DL365 Gen10 Plus Server	Gen10 Plus		Yes		Yes	
HPE ProLiant DL365 Gen11 Server	Gen11		Yes		Yes	
HPE ProLiant DL380 Gen10 Server	Gen10	Yes		Yes		
HPE ProLiant DL380 Gen10 Plus Server	Gen10 Plus		Yes		Yes	
HPE ProLiant DL380 Gen11	Gen11		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 DL385 Gen11 Server	Gen11		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 Plus	Gen10 Plus					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 ProLiant ML350 Gen11 Server	Gen11	Yes			Yes	

Server Family	Server Model	Generation	SFF Carriers		LFF Carriers		
			Smart Carrier (SC)	Basic Carrier (BC)	Smart Carrier (SC)I	Low Profile (LP)	Raw Carrier (RW)/ (AKA NPH)
HPE Synergy	HPE Synergy						
	HPE Synergy 480 Gen10 Compute Module	Gen10	Yes				
	HPE Synergy 480 Gen10 Compute Module	Gen10 Plus	Yes				
	HPE Synergy 660 Gen10 Compute Module	Gen10	Yes				
	HPE Synergy D3940 Storage Module		Yes				

HDD SKU Description Decoder

Long Name

HPE 20 TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD

Brand	Storage Capacity	Interface Type/Interface Speed	Workload	Form Factor Type/Size	Carriers	Warranty	Special Features	Drive Type
HPE	300-9000 GB 1-20 TB	SATA/SAS 6G/12G	Mission Critical 15/10K Business Critical 7.2K (BC 7.2K)	SFF LFF	BC Basic Carrier LP Low Profile LPC Low Profile Converter QR Quick Release RW Raw Drive SC Smart SCC Smart Carrier Converter ST Standard STC Standard Carrier Converter	1yr Wty 1-year Warranty 3yr Wty 3-year Warranty	MV Multi Vendor SPL Special PVT Private FIPS Self- encrypting FIPS ISE Instant Secure Erase 512e 512e Emulation (no descriptor) 512n He Helium *in priority order	HDD

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

Hewlett Packard Enterprise offers end-of-life, 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 European Union Waste Electrical and Electronic Equipment Directive [EU WEEE] (2002/95/EC) 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 website](#). 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
17-Aug-2026	Version 40	Changed	Standard Features and Technical Specifications sections were revised.
04-May-2026	Version 39	Changed	Service and Support and Technical Specifications sections were updated.
		Added	Updated GreenLake statement. Mission Critical (10K rpm) Self-Encrypting Drives (SED).
02-Feb-2026	Version 38	Changed	Overview, Standard Features and Technical Specifications sections were updated.
		Added	HPE 26TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD HPE 26TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD
23-Jun-2025	Version 37	Changed	Technical Specifications information was updated for the following SKUs (IOPs - Watts): P68585-B21, P68583-B21, P40430-B21, 872475-B21
17-Mar-2025	Version 36	Changed	Models and Service and Support Sections were updated
03-Sep-2024	Version 35	Changed	Models Section was updated
22-Jan-2024	Version 34	Changed	Models Section was updated
04-Dec-2023	Version 33	Changed	Service and Support Section was updated
15-May-2023	Version 32	Changed	Technical Specifications Section was updated
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

Date		Action	Description of Change
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 Services 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.
13-Feb-2017	Version 1	New	New QuickSpecs

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

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