



# Hewlett Packard HPE Support Center Enterprise

## HPE Server Hard Drives - Specifications

[HPE HDD portfolio: Proven performance for every workload](#)

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### HPE HDD portfolio: Proven performance for every workload

#### HPE HDD portfolio: Proven performance for every workload

Class	Mission Critical (Enterprise)		Business Critical (Midline)	Entry <sup>1</sup>
Workload	High		Medium	Low
Usage	<b>Mission-critical, high I/O:</b> Email, enterprise resource planning (ERP), customer relationship management (CRM)		<b>Business Critical, High capacity, high availability storage:</b> Backup, archive, reference	<b>Low I/O:</b> Boot and 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 18TB	Up to 4TB
Warranty	3 years	3 years	1 year	1 year

**NOTE:** 1. Supported on select HPE ProLiant servers only.

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### General specifications

#### Mission Critical (15K rpm)

Form factor	SFF (2.5")	<b>Carrier</b>	Smart Carrier (SC)						
Rotational speed	15000 rpm	<b>Dimensions</b>							
Interface	SAS	<b>Height</b>	0.62 in (15.6 mm)						
Transfer rate synchronous (Max)	12 Gb/sec	<b>Width</b>	2.98 in (75.7 mm)						
Bytes/sector	512	<b>Depth</b>	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% D/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)
870753-B21	HPE 300GB SAS 12GMission Critical 15K SFFSC 3-year	225	220	220	220	2.6	3.6	4.4	3.9

**Mission Critical (15K rpm)**

Warranty MultiVendor HDD										
870757-B21	HPE 600GB SAS 12GMission Critical 15K SFFSC 3-year Warranty MultiVendor HDD	225	220	220	220	4.7	6.1	6.3	6.3	
870759-B21	HPE 900GB SAS 12GMission Critical 15K SFFSC 3-year Warranty MultiVendor HDD	260	220	220	220	4.7	6.1	6.3	6.3	

**Mission Critical (15K rpm)**

Form factor	SFF (2.5")	<b>Carrier</b>	Basic Carrier (BC)							
Rotational speed	15000 rpm	<b>Dimensions</b>								
Interface	SAS	<b>Height</b>	0.62 in (15.6 mm)							
Transfer rate synchronous (Max)	12 Gb/sec	<b>Width</b>	2.98 in (75.7 mm)							
Bytes/sector	512	<b>Depth</b>	4.67 in (118.7 mm)							
Operating temperature			50° to 95° F (10° to 35°C)							

SKU	SKU Description	OD Media Rate, MaxSequentialThroughput (MiB/s)	128Kib RandomRd (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)
P28028-B21	HPE 300GB SAS 12GMission Critical 15K SFFBC 3-year Warranty MultiVendor HDD	225	220	220	220	2.6	3.6	4.4	3.9
P40432-B21	HPE 900GB SAS 12GMission Critical 15K SFFBC 3-year Warranty MultiVendor HDD	260	220	220	220	4.7	6.1	6.3	6.3

**Mission Critical (15K rpm)**

Form factor	LFF (3.5")	Carrier	Smart Carrier Converter (SCC)							
Rotational speed	15000 rpm	<b>Dimensions</b>								
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,	128Kib RandomRd	128Kib Random	128Kib Random	Power Idle Time	Power Random	Power Sequential	Power Sequential
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**Mission Critical (15K rpm)**

		MaxSequentialThroughput (MiB/s)	(IOPs)	70% RD/30% WT (IOPs)	50% RD/50% WT (IOPs)	(Watts)	R/W(Watts)	Read (Watts)	Write (Watts)
P04695-B21	HPE 600GB SAS 12GMission Critical 15K LFFSCC 3-year Warranty MultiVendor HDD	260	220	220	220	5.6	7.2	7.7	6.2
P04693-B21	HPE 300GB SAS 12GMission Critical 15K LFFSCC 3-year Warranty MultiVendor HDD	225	220	220	220	2.6	3.6	4.4	3.9

**Mission Critical (15K rpm)**

Form factor	LFF (3.5")	Carrier	Low Profile Carrier Converter (LPCC)						
Rotational speed	15000 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, MaxSequentialThroughput (MiB/s)	128Kib RandomRd (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)
P40431-B21	HPE 600GB SAS 12GMission Critical 15K LFFLPC 3-year Warranty MultiVendor HDD	260	220	220	220	5.6	7.2	7.7	6.2

Find in table

**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, MaxSequentialThroughput (MiB/s)	128Kib RandomRd (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)
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**Mission Critical (10K rpm)**

872475-B21	HPE 300GB SAS 12GMission Critical 10K SFF SC3- year Warranty MultiVendor HDD	195	180	180	180	3.8	6.9	6.1	5.3
872477-B21	HPE 600GB SAS 12GMission Critical 10K SFF SC3- year Warranty MultiVendor HDD	195	165	165	165	4.7	6.9	6.3	6.3
872479-B21	HPE 1.2TB SAS 12GMission Critical 10K SFF SC3- year Warranty MultiVendor HDD	195	165	165	165	4.0	7.1	6.4	5.5
872481-B21	HPE 1.8TB SAS 12GMission Critical 10K SFF SC3- year Warranty 512e MultiVendor HDD	230	165	170	185	2.6	3.6	4.4	3.9
881457-B21	HPE 2.4TB SAS 12GMission Critical 10K SFF SC3- year Warranty 512e MultiVendor HDD	255	160	180	190	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 (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 12GMission Critical 10K SFF BC3- year Warranty MultiVendor HDD	195	180	180	180	3.8	6.9	6.1	5.3
P28586-B21	HPE 1.2TB SAS 12GMission	195	165	165	165	4.0	7.1	6.4	5.5

**Mission Critical (10K rpm)**

	Critical 10K SFF BC3-year Warranty MultiVendor HDD								
P28352-B21	HPE 2.4TB SAS 12GMission Critical 10K SFF BC3-year Warranty 512e MultiVendor HDD	255	160	180	190	4.8	6.0	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	<b>Dimensions</b>	
Interface	SAS	Height	0.62 in (15.6 mm)
Transfer rate synchronous (Max)	12 Gb/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 12GMission Critical 10K SFF BC3-year Warranty Selfencrypting FIPS HDD	195	165	165	165	4.0	7.1	6.4	5.5
P28618-B21	HPE 2.4TB SAS 12GMission Critical 10K SFF BC3-year Warranty 512e Selfencrypting FIPS HDD	255	160	180	190	4.8	6.0	7.8	6.6

Find in table

**Business Critical (7.2K rpm)**

Form factor	LFF (3.5")	Carrier	Smart Carrier (SC)
Rotational speed	7200 rpm	<b>Dimensions</b>	
Interface	SAS	Height	1.06 in (26.8 mm)
Transfer Rate Synchronou s (Max)	12 Gb/sec	Width	4.16 in (105.8 mm)
Bytes/Sector	512	Depth	6.69 in (170.0 mm)

**Business Critical (7.2K rpm)**

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 12GB Business Critical 7.2K LFFSC 1-year Warranty MultiVendor HDD	190	100	100	100	8.8	12.2	10.8	10.5
872487-B21	HPE 4TB SAS 12GB Business Critical 7.2K LFFSC 1-year Warranty MultiVendor HDD	190	100	100	100	8.8	12.2	10.8	10.5
861754-B21	HPE 6TB SAS 12GB Business Critical 7.2K LFFSC 1-year Warranty 512e Multi Vendor HDD	200	100	105	110	8.8	12.2	10.8	10.5
819201-B21	HPE 8TB SAS 12GB Business Critical 7.2K LFFSC 1-year Warranty 512e Multi Vendor HDD	230	100	110	110	8.3	9.7	10.4	9.2
857644-B21	HPE 10TB SAS 12GB Business Critical 7.2K LFFSC 1-year Warranty Helium 512e Multi Vendor HDD	220	105	105	105	5.2	6.7	8.3	6.3
881779-B21	HPE 12TB SAS 12GB Business Critical 7.2K LFFSC 1-year Warranty Helium 512e Multi Vendor HDD	235	105	115	125	6.3	7.4	7.6	6.9
P09153-B21	HPE 14TB SAS 12GB Business Critical 7.2K LFFSC 1-year Warranty Helium 512e Multi Vendor HDD	250	105	115	120	5.7	8.5	8.2	6.9
P23863-B21	HPE 16TB SAS 12GB Business Critical 7.2K LFFSC 1-year Warranty Helium 512e	250	105	120	125	5.7	6.7	8.0	7.2

**Business Critical (7.2K rpm)**

	ISE MultiVendor HDD								
P37664-B21	HPE 18TB SAS 12GBusiness Critical 7.2K LFFSC 1- year WarrantyHel ium 512e ISE MultiVendor HDD	265	115	140	170	5.7	6.6	7.5	6.6

Find in table

**Business Critical (7.2K rpm)**

<b>Form factor</b>	<b>LFF (3.5")</b>	<b>Carrier</b>	<b>Low Profile (LP)</b>
Rotational speed	7200 rpm	<b>Dimensions</b>	
Interface	SAS	Height	1.028 in (26.1 mm)
Transfer rate synchronous (Max)	12 Gb/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, MaxSequentialThroughput (MiB/s)	128Kib RandomRd (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 12GBusiness Critical 7.2K LFFLP 1- year Warranty HDD	200	108	105	105	4.7	8.3	7.4	5.8
833928-B21	HPE 4TB SAS 12GBusiness Critical 7.2K LFFLP 1- year Warranty HDD	200	108	105	105	5.8	9.3	8.7	7.1
861746-B21	HPE 6TB SAS 12GBusiness Critical 7.2K LFFLP 1- year Warranty 512eHDD	215	100	110	110	6.6	7.9	9.6	7.8
834031-B21	HPE 8TB SAS 12GBusiness Critical 7.2K LFFLP 1- year Warranty 512eHDD	230	100	110	110	7.6	8.8	10.4	8.8
P09149-B21	HPE 10TB SAS 12GBusiness Critical 7.2K LFFLP 1- year WarrantyHel	220	108	105	105	5.2	6.7	8.3	6.3

**Business Critical (7.2K rpm)**

	ium 512e HDD								
881781-B21	HPE 12TB SAS 12GBBusiness Critical 7.2K LFFLP 1-year WarrantyHelium 512e HDD	235	105	115	125	6.3	7.4	7.4	6.9
P09155-B21	HPE 14TB SAS 12GBBusiness Critical 7.2K LFFLP 1-year WarrantyHelium 512e Multi VendorHDD	250	105	115	120	5.7	8.5	8.2	6.9
P23608-B21	HPE 16TB SAS 12GBBusiness Critical 7.2K LFFLP 1-year WarrantyHelium 512e ISE MultiVendor HDD	250	105	120	125	5.7	6.7	8.0	7.2
P37669-B21	HPE 18TB SAS 12GBBusiness Critical 7.2K LFFLP 1-year WarrantyHelium 512e ISE MultiVendor HDD	265	115	140	170	5.7	6.6	7.5	6.6

Find in table

**Business Critical (7.2K rpm)**

Form factor	LFF (3.5")	Carrier	Smart Carrier (SC)
Rotational speed	7200 rpm	<b>Dimensions</b>	
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, MaxSequentialThroughput (MiB/s)	128Kib Random (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 BusinessCritical 7.2K LFF SC 1-yearWarranty Multi Vendor HDD	185	90	90	90	8.8	12.2	10.8	10.5
872489-B21	HPE 2TB SATA 6G BusinessCritical 7.2K LFF	185	90	90	90	8.8	12.2	10.8	10.5



**Business Critical (7.2K rpm)**

	SC 1-year Warrant y Multi Vendor HDD								
872491-B21	HPE 4TB SATA 6G BusinessCritical 7.2K LFF SC 1-year Warrant y Multi Vendor HDD	190	100	100	100	8.8	12.2	10.8	10.5
861750-B21	HPE 6TB SATA 6G BusinessCritical 7.2K LFF SC 1-year Warrant y 512e Multi Vendor HDD	215	100	100	105	8.8	12.2	10.8	10.5
819203-B21	HPE 8TB SATA 6G BusinessCritical 7.2K LFF SC 1-year Warrant y 512e Multi Vendor HDD	230	100	110	110	7.2	8.5	10.1	9.1
857648-B21	HPE 10TB SATA 6G BusinessCritical 7.2K LFF SC 1-year Warrant y Helium 512e Multi Vendor HDD	235	105	110	115	4.8	6.0	7.7	7.0
881785-B21	HPE 12TB SATA 6G BusinessCritical 7.2K LFF SC 1-year Warrant y Helium 512e Multi Vendor HDD	235	105	115	125	6.3	7.4	8.2	7.3
P09163-B21	HPE 14TB SATA 6G BusinessCritical 7.2K LFF SC 1-year Warrant y Helium 512e Multi Vendor HDD	250	105	115	120	5.6	8.5	7.9	8.2
P23857-B21	HPE 16TB SATA 6G BusinessCritical 7.2K LFF SC 1-year Warrant y Helium 512e ISE Multi Vendor HDD	260	105	120	125	5.5	7.2	7.7	7.1
P37673-B21	HPE 18TB SATA 6G BusinessCritical 7.2K LFF SC 1-year Warrant y Helium 512e ISE Multi Vendor HDD	265	115	140	165	5.4	6.2	7.2	7.1

Find in table

**Business Critical (7.2K rpm)**

Form factor	LFF (3.5")	Carrier	Low Profile (LP)
Rotational speed	7200 rpm	<b>Dimensions</b>	
Interface	SATA	Height	1.028 in (26.1 mm)
Transfer rate synchronous (Max)	6 Gb/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 BusinessCritical 7.2K LFF LP 1-year Warranty HDD	190	90	90	90	4.4	7.7	6.4	6.6
861681-B21	HPE 2TB SATA 6G BusinessCritical 7.2K LFF LP 1-year Warranty HDD	195	90	90	90	4.4	7.7	7.0	6.5
861683-B21	HPE 4TB SATA 6G BusinessCritical 7.2K LFF LP 1-year Warranty HDD	200	108	105	105	5.4	8.6	7.9	7.6
861742-B21	HPE 6TB SATA 6G BusinessCritical 7.2K LFF LP 1-year Warranty 512e HDD	215	100	110	110	6.3	7.2	9.1	8.7
834028-B21	HPE 8TB SATA 6G BusinessCritical 7.2K LFF LP 1-year Warranty 512e HDD	230	108	105	105	7.1	8.3	10.1	7.8
P09161-B21	HPE 10TB SATA 6G BusinessCritical 7.2K LFF LP 1-year Warranty Helium 512e HDD	240	110	120	125	4.8	6.0	7.7	7.9
881787-B21	HPE 12TB SATA 6G BusinessCritical 7.2K LFF LP 1-year Warranty Helium 512e HDD	235	105	115	125	6.3	7.4	7.4	6.9
P09165-B21	HPE 14TB SATA 6G BusinessCritical 7.2K LFF LP 1-	250	105	115	120	5.6	8.5	7.9	8.2

**Business Critical (7.2K rpm)**

	yearWarranty Helium 512e MultiVendor HDD								
P23449-B21	HPE 16TB SATA 6G BusinessCritical 7.2K LFF LP 1-yearWarranty Helium 512e ISEMulti Vendor HDD	260	105	120	125	5.5	7.2	7.7	7.1
P37678-B21	HPE 18TB SATA 6G BusinessCritical 7.2K LFF LP 1-yearWarranty Helium 512e ISEMulti Vendor HDD	265	115	140	165	5.4	6.2	7.2	7.1

**Business Critical (7.2K rpm)**

Form factor	SFF (2.5")	Carrier	Smart Carrier (SC)
Rotational speed	7200 rpm	<b>Dimensions</b>	
Interface	SAS	Height	0.62 in (15.6 mm)
Transfer rate synchronous (Max)	12 Gb/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, MaxSequentialThroughput (MiB/s)	128Kib RandomRd (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 12GBusiness Critical 7.2K SFFSC 1-year Warranty HDD	130	105	105	105	2.6	3.6	4.4	3.9
765466-B21	HPE 2TB SAS 12GBusiness Critical 7.2K SFFSC 1-year Warranty 512eHDD	130	105	105	105	2.6	3.6	4.4	3.9

**Business Critical (7.2K rpm)**

Form factor	SFF (2.5")	Carrier	Basic Carrier (BC)
Rotational speed	7200 rpm	<b>Dimensions</b>	
Interface	SAS	Height	0.62 in (15.6 mm)
Transfer rate synchronous (Max)	12 Gb/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)		

**Business Critical (7.2K rpm)**

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)
P28505-B21	HPE 2TB SAS 12GB Business Critical 7.2K SFFBC 1-year Warranty 512eHDD	130	105	105	105	2.6	3.6	4.4	3.9

**Business Critical (7.2K rpm)**

Form factor	SFF (2.5")	Carrier	Smart Carrier (SC)
Rotational speed	7200 rpm	<b>Dimensions</b>	
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)
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)
655710-B21	HPE 1TB SATA 6GB Business Critical 7.2K SFFSC 1-year Warranty HDD	130	105	105	1055	2.6	3.6	4.4	3.9
765455-B21	HPE 2TB SATA 6GB Business Critical 7.2K SFFSC 1-year Warranty 512eHDD	130	105	105	105	2.6	3.6	4.4	3.9

**Business Critical (7.2K rpm)**

Form factor	SFF (2.5")	Carrier	Basic Carrier (SC)
Rotational speed	7200 rpm	<b>Dimensions</b>	
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)
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)
P28610-B21	HPE 1TB SATA 6GB Business Critical 7.2K SFFBC 1-	130	105	105	105	2.6	3.6	4.4	3.9

**Business Critical (7.2K rpm)**

	year Warranty HDD								
P28500-B21	HPE 2TB SATA 6GBusiness Critical 7.2K SFFBC 1-year Warranty 512eHDD	130	105	105	105	2.6	3.6	4.4	3.9

**Entry**

Form factor	LFF (3.5")	Carrier	Non Hot Plug Carrier (RW)
Rotational speed	7200 rpm	<b>Dimensions</b>	
Interface	SATA	Height	1.028 in (26.1 mm)
Transfer rate synchronous (Max)	6 Gb/sec	Width	4.00 in (101.6 mm)
Bytes/sector	512	Depth	5.75 in (146.0 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)
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 6GBusiness Critical 7.2K LFFRW 1-year Warranty MultiVendor HDD	160	95	95	95	8.8	12.1	10.8	10.5
801888-B21	HPE 4TB SATA 6GBusiness Critical 7.2K LFFRW 1-year Warranty MultiVendor HDD	160	95	95	95	8.8	12.1	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.

**Carriers**

Form factor	HPE/NHP	Smart/Non-Smart	Carrier Name (Abbreviation)	SFF/LFF
SFF carrier	Hot Plug	Smart	Smart Carrier (SC)	SFF
		Non-Smart	Standard (ST)	SFF
			Basic Carrier (BC)	SFF
LFF carrier	Hot Plug	Smart	Smart Carrier (SC)	LFF
			Smart Carrier Converter (SCC)	LFF
		Non-Smart	Low Profile (LP)	LFF

**Carriers**

			Low Profile Converter (LPC)	LFF
			Standard (ST)	LFF
No carrier	Non-Hot Plug	Non-Smart	Raw LFF HDD (RW)	LFF

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