Latest-generation HP SATA DVD-ROM and DVD RW optical drives

Data sheet

Discover enhanced efficiency with the latest HP SATA optical drives

The latest HP Serial ATA (SATA) optical drives for HP ProLiant Gen8 servers feature an industry-standard SATA interface for maximum installation compatibility. Supported on most major operating systems, they are suitable for entry-level or enterprise HP ProLiant environments that require readable or writable optical solutions.

The re-writable DVD RW drive is capable of reading DVD 4.7 GB through 8.5 GB media, and can also read standard stamped, CD-R, and CD-RW media. This drive supports writing to CD-R, CD-RW, DVD +R/RW, and DVD -R/RW media through software utilities. The Microsoft® operating system (OS) will be available to you for use after you install the Roxio software disk that comes along with the drive. For other OSs, an operating system-specific software utility is required for writing to media.

The DVD-ROM drive is designed to read CD-ROM and CD -R/RW discs as well as DVD-ROM, DVD-RAM, DVD +R/RW, and DVD -R/RW discs.

These SATA optical drives are ideal, if you:

- Wish to perform a local back up, or retail or branch office configuration archiving
- Need to locally install software or patches, or load data
- Want an OS boot disk that is larger than traditional floppy drives
- Require the latest optical-drive support with DVD capacity

Key features and benefits

Designed especially for ProLiant servers, the DVD-ROM drive includes a higher capacity writable optical drive utilizing DVD and CD media. These latest-generation HP SATA DVD-ROM and DVD RW optical drives now come in three sizes—half-height, slim, and 9.5 mm. The optical option kits are:

- HP HH SATA DVD ROM and DVD-RW Optical Kit
- HP Slim 12.7mm SATA DVD ROM and DVD-RW Optical Kit
- HP 9.5mm SATA DVD ROM and DVD-RW Optical Kit

They feature:
- DVD write capability for simple data archiving
- Software, firmware, or patch installation capability from CD or DVD installation disks
- Capacity to access previously archived data on CD or DVD disks
- Latest industry features in DVD read and write options
- Ability to access OS boot disks stored on CD or DVD disks

What's new?

All Gen8 optical drives come in new Jackblack color to match new HP ProLiant Gen8 Servers.

HP SATA DVD RW optical drives

Technical specifications

HP Half-Height SATA DVD RW Optical Drive

Shipping dimensions Height x width x depth (HxWxD)	6.0 x 9.88 x 10.88 in. (15.24 x 25.1 x 27.64 cm)			
Drive dimensions (HxWxD)	1.62 x 5.75 x 7.8 in. (4.13 x 14.6 x 20 cm)			
Disk	Applicable disk	DVD-ROM DVD-R DVD-R DL DVD-RW DVD+R DVD+R DL DVD+RW CD-ROM XA CD-ROM Mode-1 data disc CD-ROM Mode-2 data disc CD Audio disc CD-Extra CD-RW CD-R Photo CD CD-I CD-DA		
	Capacity	DVD-ROM	DVD-SL	4.7 GB/side
			DVD-DL	8.5 GB/side
			Double Sided	9.40 GB
		DVD+/-R		4.7 GB/side
		DVD +/-RW		4.7 GB/side
		CD-ROM	Mode-1	650 MB (550 MB)
			Mode-2	742 MB (640 MB)
	Block size	DVD		2,048 bytes
		CD		2,352 (Mode-0)
				2352, 2340, 2336, 2048 bytes (Mode-1)
				2352, 2340, 2336, 2048 bytes (Mode-2)
	Diameter	120 mm, 80 mm (with adapter at vertical mounting mode)		

Continued HP SATA DVD RW optical drives

Technical specifications

HP Half-Height SATA DVD RW Optical Drive

Loading mechanism	Tray type	
Interface	SATA 1.5	
Access times (typical)	Random	DVD-ROM < 140 ms, CD-ROM < 125 ms
	Full-stroke	DVD-ROM < 250 ms, CD-ROM < 210 ms
Data transfer rate (sustained)	DVD-ROM	Single layer	21.6 MB/sec. maximum
	CD-ROM		6 MB/sec. maximum
Cache buffer	1.5 MB (minimum)	
Spin-up time (typical)	less than 10 seconds	
Mean time between failures (MTBF)	125,000 power on hours (POH)	
	125,000 power on hours (POH)	
Ambient temperature	Operating	41° to 122° F (5° to 50° C)
	Storage/transportation	−40° to 140° F (−30° to 60° C)

Technical specifications

HP Half-Height SATA DVD RW Optical Drive

Shipping dimensions (HxWxD)	3.97 x 7.81 x 10.75 in. (10.08 x 19.84 x 27.31 cm)	
Drive dimensions (HxWxD)	0.5 x 5.2 x 5.45 in. (1.27 x 13.2 x 13.8 cm)	
Disk	Applicable disk	DVD-ROM DVD-R DVD-R DL DVD-RW DVD+R DVD+R DL DVD+RW DVD RAM CD-ROM XA CD-ROM Mode-1 data disc CD-ROM Mode-2 data disc CD Audio disc CD-Extra CD-RW CD-R Photo CD CD-I CD-DA

Continued HP SATA DVD RW optical drives

Technical specifications

HP Half-Height SATA DVD RW Optical Drive

<table>
<tr><td rowspan="15">Disk</td><td rowspan="8">Capacity</td><td rowspan="3">DVD-ROM</td><td>DVD-SL</td><td>4.7 GB/side</td></tr>
<tr><td>DVD-DL</td><td>8.5 GB/side</td></tr>
<tr><td>Double Sided</td><td>9.40 GB</td></tr>
<tr><td>DVD+/-R</td><td></td><td>4.7 GB/side</td></tr>
<tr><td>DVD +/-RW</td><td></td><td>4.7 GB/side</td></tr>
<tr><td>DVD RAM</td><td></td><td>5.2 GB/side</td></tr>
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<tr><td>Diameter</td><td colspan="3">120 mm, 80 mm (with adapter at vertical mounting mode)</td></tr>
<tr><td colspan="4"></td></tr>
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<tr><td>Loading mechanism</td><td colspan="4">Tray type manual load</td></tr>
<tr><td>Interface</td><td colspan="4">SATA 1.5</td></tr>
<tr><td rowspan="2">Access times (typical)</td><td>Random</td><td colspan="3">DVD-ROM < 120 ms, CD-ROM < 110 ms</td></tr>
<tr><td>Full-stroke</td><td colspan="3">DVD-ROM < 250 ms, CD-ROM < 210 ms</td></tr>
<tr><td rowspan="2">Data transfer rate (sustained)</td><td>DVD-ROM</td><td>Single layer</td><td colspan="2">10.8 MB/sec.</td></tr>
<tr><td>CD-ROM</td><td></td><td colspan="2">3.6 MB/sec. maximum</td></tr>
<tr><td>Cache buffer</td><td colspan="4">1.5 MB (minimum)</td></tr>
<tr><td>Spin-up time (typical)</td><td colspan="4">less than 15 seconds</td></tr>
<tr><td>MTBF</td><td colspan="4">60,000 POH</td></tr>
<tr><td rowspan="2">Ambient temperature</td><td>Operating</td><td colspan="3">41° to 122° F (5° to 50° C)</td></tr>
<tr><td>Storage/transportation</td><td colspan="3">−40° to 140° F (−30° to 60° C)</td></tr>
</table>

Continued HP SATA DVD RW optical drives

Technical specifications

HP 9.5mm SATA DVD RW Optical Drive

Shipping dimensions (HxWxD)	3.97 x 7.81 x 10.75 in. (10.08 x 19.84 x 27.31 cm)			
Drive dimensions (HxWxD)	0.374 x 5.1 x 5.2 in. (9.5 x 130 x 132 mm)			
Disk	Applicable disk	DVD-ROM DVD-R DVD-R DL DVD-RW DVD+R DVD+R DL DVD+RW DVD RAM CD-ROM XA CD-ROM Mode-1 data disc CD-ROM Mode-2 data disc CD Audio disc CD-Extra CD-RW CD-R Photo CD CD-I CD-DA		
	Capacity	DVD-ROM	DVD-SL	4.7 GB/side
			DVD-DL	8.5 GB/side
			Double Sided	9.40 GB
		DVD+/-R		4.7 GB/side
		DVD +/-RW		4.7 GB/side
		DVD RAM		5.2 GB/side
		CD-ROM	Mode-1	650 MB (550 MB)
			Mode-2	742 MB (640 MB)
	Block size	DVD		2,048 bytes
		CD		2,352 (Mode-0)
				2352, 2340, 2336, 2048 bytes (Mode-1)
				2352, 2340, 2336, 2048 bytes (Mode-2)
	Diameter	120 mm, 80 mm (with adapter at vertical mounting mode)		
Loading mechanism	Tray type manual load			
Interface	SATA 1.5			

Continued HP SATA DVD RW optical drives

Technical specifications

HP 9.5mm SATA DVD RW Optical Drive

Access times (typical)	Random	DVD-ROM < 180 ms, CD-ROM < 150 ms	
	Full-stroke	DVD-ROM < 250 ms, CD-ROM < 210 ms	
Data transfer rate (sustained)	DVD-ROM	Single layer	10.8 MB/sec. maximum
	CD-ROM		3.6 MB/sec. maximum
Cache buffer	1 MB (minimum)		
Spin-up time (typical)	less than 15 seconds		
MTBF	60,000 POH		
Ambient temperature	Operating	41° to 122° F (5° to 50° C)	
	Storage/transportation	−40° to 140° F (−30° to 60° C)	

HP SATA DVD ROM optical drives

Technical specifications

HP Half-Height SATA DVD-ROM Optical Drive

Shipping dimensions	6.0 x 9.88 x 10.88 in. (15.24 x 25.1 x 27.64 cm)	
Drive dimensions (HxWxD, maximum)	1.62 x 5.75 x 7.87 in. (41.3 x 146 x 200 mm)	
Disk	Applicable disk	DVD-ROM
		DVD-R /-RW (Read Only) DVD+R /+RW (Read Only)
		2.6 GB/side DVD-RAM (Read Only)
		5.2 GB/side DVD-RAM (Read Only)
		CD-ROM Mode-1 data disc
		CD-ROM Mode-2 data disc
		CD Audio disc
		CD-Extra
		CD-RW (Read Only)
		CD-R (Read Only)

Continued HP SATA DVD ROM optical drives

Technical specifications

HP Half-Height SATA DVD-ROM Optical Drive

Disk	Applicable disk	CD Text		
		Photo CD		
		CD-I (mode 2)		
		CD-I Ready		
		CD-Bridge		
	Capacity	DVD-ROM	DVD-SL	4.7 GB/side
			DVD-DL	8.5 GB/side
			Double sided	9.40 GB/side
		DVD-R/-RW		4.7 GB/side
		DVD-RAM		2.6 GB/5.2 GB/side
		DVD+/-RW		4.7 GB
		CD-ROM	Mode-1	650 (700 MB)
			Mode-2	742 MB (640 MB)
	Block Size	DVD		2,048 bytes
		CD		2,352 (Mode-0)
				2352, 2340, 2336, 2048 bytes (Mode-1)
				2352, 2340, 2336, 2048 bytes (Mode-2)
	Diameter	120 mm, 80 mm (with adapter at vertical mounting mode)		
Loading mechanism	Tray type auto loading			
Interface	SATA 1.5			
Access times (typical)	Random	DVD-ROM < 140 ms, CD-ROM < 125 ms		
	Full-Stroke	DVD-ROM < 250 ms, CD-ROM < 210 ms		
Data transfer rate (sustained)	DVD-ROM	21.6 MB/sec. maximum		
	CD-ROM	6 MB/sec. maximum		

Continued HP SATA DVD ROM optical drives

Technical specifications

HP Half-Height SATA DVD-ROM Optical Drive

Cache buffer	1.5 MB (minimum)	
Spin-up time (typical)	less than 10 seconds	
MTBF	125,000 POH	
Ambient temperature	Operating	41° to 122° F (5° to 50° C)
	Storage/transportation	–40° to 120° F (–40° to 60° C)
Relative Humidity	Operating	10% to 90%
	Storage/transportation	5% to 95%

Technical specifications

HP Slim SATA DVD-ROM Optical Drive

Shipping dimensions (HxWxD)	3.97 x 7.81 x 10.75 in. (10.08 x 19.84 x 27.31 cm)	
Drive dimensions (HxWxD, maximum)	0.5 x 5.2 x 5.45 in. (12.7 x 132 x 138 mm)	
Disk	Applicable disk	DVD-ROM
		DVD-R /-RW (Read Only) DVD+R /+RW (Read Only)
		2.6 GB/side DVD-RAM (Read Only)
		5.2 GB/side DVD-RAM (Read Only)
		CD-ROM Mode-1 data disc
		CD-ROM Mode-2 data disc
		CD Audio disc
		CD-Extra
		CD-RW (Read Only)
		CD-R (Read Only)
		CD Text
		Photo CD
		CD-I (mode 2)

Continued HP SATA DVD ROM optical drives

Technical specifications

HP Slim SATA DVD-ROM Optical Drive

Disk	Applicable disk	CD-I Ready		
		CD-Bridge		
	Capacity	DVD-ROM	DVD-SL	4.7 GB/side
			DVD-DL	8.5 GB/side
			Double sided	9.40 GB/side
		DVD+/-R		4.7 GB/side
		DVD-RAM		2.6 GB/5.2 GB/side
		DVD+R/+RW		4.7 GB
		CD-ROM	Mode-1	650 (700 MB)
			Mode-2	742 MB (640 MB)
	Block size	DVD		2,048 bytes
		CD		2,352 (Mode-0)
				2352, 2340, 2336, 2048 bytes (Mode-1)
				2352, 2340, 2336, 2048 bytes (Mode-2)
	Diameter	120 mm, 80 mm (with adapter at vertical mounting mode)		
Loading mechanism	Tray type auto loading			
Interface	SATA 1.5			
Access times (typical)	Random	DVD-ROM < 120 ms, CD-ROM < 110 ms		
	Full-stroke	DVD-ROM < 250 ms, CD-ROM < 210 ms		
Data transfer rate (sustained)	DVD-ROM	10.8 MB/sec. maximum		
	CD-ROM	3.6 MB/sec. maximum		
Spin-up time (typical)	less than 15 seconds			
MTBF	60,000 POH			
Ambient temperature	Operating	41° to 122° F (5° to 50° C)		
	Storage/transportation	-40° to 120° F (-40° to 60° C)		
Relative humidity	Operating	15% to 85% (non-condensing)		
	Storage/transportation	10% to 90% (non-condensing)		

Continued HP SATA DVD ROM optical drives

Technical specifications

HP 9.5mm SATA DVD ROM Optical Drive

Shipping dimensions (HxWxD)	3.97 x 7.81 x 10.75 in. (10.08 x 19.84 x 27.31 cm)			
Drive dimensions (HxWxD, maximum)	0.374 x 5.1 x 5.2 in. (9.5 x 130 x 132 mm)			
Disk	Applicable disk	DVD-ROM		
		DVD-R /-RW (Read Only) DVD+R /+RW (Read Only)		
		5.2 GB/side DVD-RAM (Read Only)		
		CD-ROM Mode-1 data disc		
		CD-ROM Mode-2 data disc		
		CD Audio disc		
		CD-Extra		
		CD-RW (Read Only)		
		CD-R (Read Only)		
		CD Text		
		Photo CD		
		CD-I (mode 2)		
		CD-I Ready		
		CD-Bridge		
	Capacity	DVD-ROM	DVD-SL	4.7 GB/side
			DVD-DL	8.5 GB/side
			Double Sided	9.40 GB/side
		DVD+/-R		4.7 GB/side
		DVD-RAM		5.2 GB/side
		DVD+R/+RW		4.7 GB
		CD-ROM	Mode-1	650 (700 MB)
			Mode-2	742 MB (640 MB)

Continued HP SATA DVD ROM optical drives

Technical specifications

HP Slim SATA DVD-ROM Optical Drive

Disk	Block size	DVD	2,048 bytes
		CD	2,352 (Mode-0)
			2352, 2340, 2336, 2048 bytes (Mode-1)
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	Diameter	120 mm, 80 mm (with adapter at vertical mounting mode)	
Loading mechanism		Tray type auto loading	
Interface		SATA 1.5	
Access times (typical)	Random	DVD-ROM < 180 ms, CD-ROM < 150 ms	
	Full-stroke	DVD-ROM < 250 ms, CD-ROM < 210 ms	
Data transfer rate (sustained)	DVD-ROM	10.8 MB/sec. maximum	
	CD-ROM	3.6 MB/sec. maximum	
Spin-up time (typical)		less than 15 seconds	
MTBF	60,000 POH		
Ambient temperature	Operating	41° to 122° F (5° to 50° C)	
	Storage/transportation	–40° to 120° F (–40° to 60° C)	
Relative humidity	Operating	15% to 85% (non-condensing)	
	Storage/transportation	10% to 90% (non-condensing)	

Why choose HP SATA optical drives

Our SATA DVD-ROM and DVD RW optical drives offer you increased performance and reliability as well as cost-efficiency. In addition, since they are built to be compatible with HP ProLiant Gen8 servers, these optical option kits help you get better efficiencies of operations and return on investment compared to other similar non-HP products.

HP Financial Services

HP Financial Services provides innovative financing and financial asset management programs to help you cost effectively acquire, manage, and ultimately retire your HP solutions. For more information on these services, visit **www.hp.com/go/hpfinancialservices**.

HP Services

HP Technology Services offers a set of consultancy, deployment, and support solutions designed to meet the lifecycle needs of your IT environments.

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For more information, please visit **www.hp.com/services/proliant.**

Get the best option in SATA optical drives for your HP ProLiant Gen8 servers
To learn more on how the new HP SATA DVD-ROM and DVD RW optical drives give you enhanced efficiency and ease of use, visit
http://h18004.www1.hp.com/products/servers/proliantstorage/serial/hh-sata/index.html.

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