

Overview

Models

Optical Drives	HP External USB DVD/RW	F2B56AA
	HP 2011 BNB Notebook Upgrade Bay DL DVD+/-RW	LZ835AA
	2013 Upgrade Bay 750GB HDD AMO 0 Carrier and Drive	G1Y56AA
	2013 Upgrade Bay DVD AMO - Carrier and Drive	G1Y57AA
Removable Hard Drives	HP 500 GB 7200 rpm SED Hard Drive (US Only)	E8D48AA
	HP 500 GB 7200 rpm Primary SATA Hard Drive	F3B97AA
	HP 750 GB 7200 rpm Primary SATA Hard Drive	H2P67AA
	HP Upgrade Bay 750 GB Hard Drive	H2P66AA
Solid State Drives	HP 128 GB Solid State Drive	F4P50AA
	HP 180 GB Solid State Drive	H4T75AA
	HP 256 GB SED Solid State Drive	H2C38AA
Brackets	HP Mobile Workstation HDD/SSD Bracket New!	J2D73AA

HP Storage Solutions

HP storage solutions for your HP business notebook provide additional flexibility and expandability with a range of options that include optical drives, hard drives, and solid state drives.

Standard Features

Optical Drives

HP External USB DVD/RW

With the HP External USB Optical Drive, any available USB port on your notebook or Ultrabook™ becomes a ticket to optical storage. Simply connect the drive with the included USB cable, and get immediate read/write access to your optical media.

Key Benefits

- Write to or access large files, media or music from CDs or DVDs
 - Connect easily through a USB 2.0 port
 - Lightweight, compact design stores easily into a carrying case or backpack
-

HP 2011 BNB Notebook Upgrade Bay DL DVD+/-RW

The HP 2011 BNB Notebook Upgrade Bay DL DVD+/-RW and HP Upgrade Bay SuperMulti (DL) DVD+/-RW SATA Drives are user-removable, drawer-load data storage devices that can write to CD-R, CD-RW, DVD+R, DVD-R, DVD+RW, and DVD-RW media and can read from any industry-standard CD and DVD media. The drives are an exceptional solution for creating CDs and DVDs, and for backing up or archiving permanent data files on CD or DVD media. Model LZ835AA is designed specifically to fit into 2011 HP Business Notebook platforms and HP Advanced Docking Stations (A7E36AA/A7E38AA). Model AK869AA works with HP Docking Stations (A7E32AA/A7E34AA) and pre-2011 HP Business Notebooks.

Key Benefits

- Single user-removable drive with 8X DVD-ROM, 10X CD-RW, and 2X DVD+/-RW Dual Format functionality
- Up to 4.7 GB of data storage capacity (up to 8.5 GB double layer)

NOTE: Don't copy copyright-protected materials. Double Layer is a new technology. Double Layer media compatibility will widely vary with some home DVD players and DVD-ROM drives. Note that DVD-RAM cannot read or write to 2.6GB Single Sided/5.2 Double Sided-Version 1.0 Media.

2013 Upgrade Bay 750GB HDD AMO 0 Carrier and Drive

The 2013 HP Upgrade Bay 750 GB HDD AMO Carrier and Drive is a convenient and affordable solution for users who require additional storage or a faster dedicated second hard drive.

Key Benefits

- Easy back-up solution without burdening network resources.
 - Warm swappable.
 - High speed SATA data transfer.
 - Power/drive activity LED indicator.
-

2013 Upgrade Bay DVD AMO - Carrier and Drive

Create CDs and DVDs, back up or archive permanent data files on CD or DVD media with the HP 2013 Upgrade Bay DVD AMO - Carrier and Drive.

Standard Features

Key Benefits

- Write to or access large files, media or music from CDs or DVDs
 - Up to 4.7 GB of data storage capacity (up to 8.5 GB double layer).
 - Lightweight, compact design stores easily into a carrying case or backpack.
-

Removable Hard Drives

HP 500 GB 7200rpm SED Hard Drive , and HP 500/750 GB 7200rpm Primary SATA Hard Drive

The HP Hard Drives are convenient and affordable solutions for users who require additional storage or a faster dedicated second hard drive.

Key Benefits

- Extend the life of your HP Business Notebook by providing additional storage
 - Easy low-cost back-up solution without burdening network resources
 - Switch drives between most HP business notebooks
 - SMART predictive failure analysis (PFA)
-

HP Upgrade Bay 750 GB Hard Drive and HP 2011 BNB Notebook Upgrade Bay

The HP Upgrade Bay 750 GB Hard Drive and 2011 is convenient and affordable solutions for users who require additional storage or a faster dedicated second hard drive. Model H2P66AA fits into select 2011 and 2012 HP Business Notebooks and works with HP Advanced Docking Stations. Model LX733AA fits into select 2010 and 2011 HP Business Notebook platforms and does not work with HP Docking Stations. Model AU097AA works with HP Advanced Docking Stations and pre-2011 HP Business Notebooks.

Key Benefits

- Extend the life of your HP Business Notebook by providing additional storage
 - Easy back-up solution without burdening network resources
 - Switch drives between most HP business notebooks
 - Warm swappable
 - High speed SATA data transfer
 - Power/drive activity LED indicator
-

Solid State Drives

HP 128 GB, 180 GB, and 256 GB Solid State Drives

The HP 128 GB and 180 GB Solid State Drives provide many performance and durability improvements over traditional Hard Disk Drive (HDD) technology. With no moving parts, solid state drives do not need to spin up or mechanically seek files like conventional hard disk drives do. These drive characteristics significantly improve boot-up, shut down, and application loading times as well as overall application responsiveness.

The HP 256 GB SED Solid State Drive includes Trusted Computing Group (TCG) Opal-compliant self-encryption for enhanced data security that adds a layer of authentication to your drive.

Standard Features

Key Benefits

- Store your data with a hard drive with no moving parts
 - Get faster transfer speeds and higher cell endurance with Multi Level Cell (MLC) NAND flash memory
 - Significantly improve boot up, shut down, and application loading times
 - Improved protocol for enhanced data integrity
 - Performance increase to up to 6 Gb/s maximum external (burst) data transfer rate
 - Native Command Queuing allows the drive to have several write or read commands outstanding at the same time
-

Bracket

HP Mobile Workstation HDD/SSD Bracket

Easily replace or upgrade your hard drive or solid state drive with the HP Mobile Workstation HDD/SSD Bracket.

Simply insert the drive (sold separately) into the bracket, and the bracket into the available drive slot on your HP Mobile Workstation or HP ZBook.

Rest easy with a one-year parts replacement limited warranty.

Technical Specifications

Optical Drives

HP External USB DVD/RW Drive	Manual tray-load	
Interface	USB 2.0	
Dimensions (HxWxD)	0.55 x 5.41 x 5.94 in (1.40 x 14.40 x 13.75 cm)	
Form Factor	External	
Access Times	CD	1/3 Stroke: 140 ms
	DVD	1/3 Stroke: 160 ms
Supported Media (read)	DVD-ROM, DVD-R DVD-R , DVD-R DL, DVD-RW, DVD-RAM, DVD+R, DVD+R DL, and +RW CD-ROM, CD-ROM XA, CD-DA Super Audio CD CD-R discs CD-RW discs CPRM (DVD-R/RW/RAM) supported	
Supported Media (write)	DVD-R DVD-R DL DVD-RW DVD-RAM DVD+R DVD+R DL DVD+RW CD-R/RW	
Maximum speed		Normal
Write	DVD-RW	6X maximum by ZCLV
	DVD+RW	8X maximum by ZCLV
	CD-RW	24 X maximum by ZCLV
Read	DVD-R/RW/ROM	8 X maximum
	DVD-R DL	8 X maximum
	DVD-RAM	6 X maximum
	DVD-Video	4 X maximum
	M-DISC(DVD+R SL)	8 X maximum
	DVD+R/+RW	8 X maximum
	DVD+R DL	8 X maximum
	CD-R/RW/ROM	24 X maximum
	CD-DA	24 X maximum
Environmental (all conditions, non-)	Temperature (operating)	
	Read and Write	5 to 40 °C

Technical Specifications

condensing)

	Relative Humidity (operating)	10% to 80%
	Read	15% to 85% (Non-Condensing)
	Write	15% to 80% (Depend on the Temperature)
	Temperature (non-operating)	-30 to 40 °C
	Relative Humidity (non-operating)	10% to 90% (Non-Condensing)
Operating systems supported	Windows 8, Windows 7, Windows Vista, Windows XP, Windows 2008, Windows 2003, Mac OS X	
System requirements	Pentium IV 2.4 GHz or higher, compatible (Recommended: Pentium IV 3.2 GHz or Higher) RAM: 256 MB or higher (Recommended: 128 MB) HDD: 20 GB or more of available space Video Memory: 64 MB or higher (Recommend: 128 MB) Interface: USB 2.0	
Option kit contents	HP Mobile USB DVD/RW Drive, software, documentation	

HP 2011 BNB Notebook Upgrade Bay DL DVD+/-RW

Drive	Manual tray-load	
Orientation	Horizontal or vertical	
Technology	SATA	
Interface	Gen 1 SATA	
Transfer Mode	UDMA Mode 5	
Dimensions (HxWxD)	0.37 x 5.75 x 5.04 in (0.95 x 14.6 x 12.8 cm)	
Form Factor	12.7mm SuperMulti	
Capacity	Read	Up to 8.5 GB
	Write	Up to 8.5 GB
Access Times	CD	< 175 ms
	DVD	< 230 ms
Max Data transfer rates (sustained)	24X CD-ROM	Up to 3,600 KB/s
	8X DVD	Up to 10,800 KB/s
	24X CD-R	Up to 3,600 KB/s
	16X CD-RW	Up to 2,400 KB/s
	8X DVD+R	Up to 10,800 KB/s
	4X DVD+RW	Up to 5,400 KB/s
	8X DVD-R	Up to 10,800 KB/s
	4X DVD-RW	Up to 5,400 KB/s
	2.4X DVD+R(9)	Up to 2,700 KB/s
	5X DVD-RAM	Up to 6,750 KB/s

Technical Specifications

Supported Media (read)	CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED MODE CD, CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-R, DVD-RW, DVD+R, DVD+RW, DVD-RAM	
Supported Media (write)	CD-R, CD-RW, DVD+R, DVD+RW, DVD-R, DVD-RW, DVD-RAM	
Max Media Capacity (read)	8.5 GB	
Max Media Capacity (write)	8.5 GB	
Power	Four-pin, DC power receptacle DC Power Requirement: 5 VDC \pm 5%-100 mV ripple p-p	
Environmental (all conditions, non-condensing)	Temperature (operating)	50° to 95° F (10° to 35° C)
	Relative Humidity (operating)	10% to 90%, non condensing
	Maximum Wet Bulb Temperature (operating)	101.6° F (38.7° C)
Operating systems supported	Windows® 2000, Windows XP Professional, Windows XP Home, Windows Vista®, Windows 7	
Option kit contents	HP 2011 BNB Notebook Upgrade Bay DL DVD+/-RW or HP SuperMulti (DL) DVD+/-RW SATA Drive, documentation	

HP 2013 Upgrade Bay 750 GB Hard Drive

Weight (without HDD)	1.59 lb (45 g)
Dimensions (HxWxD)	5.30 x 5.04 x .60 in 13.45 x 12.80 x 1.53 cm
Formatted Capacity	750 GB
Total logical sectors	1465149168
Interface	SATA 3.0
Data Transfer rate @ Disk to Buffer SATA	170 Mbytes/s up to 600MB/s
RPM	7200
Operating systems supported	Windows 7 and Windows 8
Operating Temperature	0 to 60°C
Option kit contents	HP 2013 Upgrade Bay 750 GB Hard Drive and documentation

2013 Upgrade Bay DVD AMO - Carrier and Drive

Drive	Manual tray-load
Orientation	Horizontal or vertical
Operating Temperature	5 to 50 °C
Interface	SATA 1.0
Transfer Mode	1X CD-ROM = 150 Kbytes/second 1X DVD-ROM = 1350 Kbytes/second (1KB = 1024 Bytes) DVD+R Write 10800 KB/s up to 8X

Technical Specifications

	DVD+R DL Write 5400 KB/s up to 6X DVD+RW Write 10800 KB/s up to 8X DVD-R Write 10800 KB/s up to 8X. DVD-R DL Write 5400 KB/s up to 6X DVD-RW Write 8100 KB/s up to 6X DVD-RAM Write 6750 KB/s up to 5X CD-R Write 3600 KB/s up to 24X. CD-RW Write 2400 KB/s up to 16X CD-ROM Read 3600 KB/s up to 24X. DVD-ROM Read 10800 KB/s up to 8X.
Weight	4.94 lb (140 g)
Dimensions (HxWxD)	5.51 x 5.09 x .62 in 13.99 x 12.93 x 1.58 cm
Form Factor	Commands for DVD Devices. Small Form Factor Connector Standards
Capacity	Read Write
Access Times	CD DVD
Max Data transfer rates (sustained)	24X CD-ROM 8X DVD 24X CD-R 16X CD-RW 8X DVD+R 4X DVD+RW 8X DVD-R 4X DVD-RW 2.4X DVD+R(9) 5X DVD-RAM
Supported Media (read)	DVD-R DVR-W DVD+RW DVD+R DVD+R DL DVD-R DL DVD-RAM
Supported Media (write)	CD-R CD-RW DVD-R DVD-R DL DVD-RW DVD+R DVD+R DL DVD+RW DVD-RAM
Max Media Capacity (read)	9.40 GB

Technical Specifications

Max Media Capacity (write)	8.50 GB
Power	5 VDC < 800 mA Read (typical at O.D.) < 1,000 mA Write (typical at O.D.) <1600 mA (maximum-excluding spike current <1ms duration) <65 mA (stand-by - partial if supported) <40 mA (stand-by - slumber)
Environmental (all conditions, non-condensing)	Temperature (operating) Relative Humidity (operating) Maximum Wet Bulb Temperature (operating)
Operating systems supported	Windows 7 and Windows 8
Option kit contents	2013 Upgrade Bay DVD AMO - Carrier and Drive and documentation

Removable Hard Drives

HP 500 GB 7200rpm SED Hard Drive

Drive Weight	0.21 lb (95 g)
Capacity	500 GB
Height	0.28 in (7 mm)
Width	xx in (xx mm)
Interface	ATA-2, SATA 2.5, xx Gb/s, NCQ
Transfer Rate	Synchronous (maximum) Up to 300 MB/s (Drive Capability)
Seek Time (typical reads, including settling)	Single Track 1.1ms Average 13ms Maximum 25ms
Rotational Speed	7200 rpm
Logical Blocks	976,773,168
Operating Temperature	32° to 140° F (0° to 60° C) [case temp]
Features	ATA Security

Technical Specifications

HP 500 GB 7200rpm Primary SATA Hard Drive	Drive Weight	0.25 lb (115g)	
	Capacity	500 GB	
	Height	0.37 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ	
	Transfer Rate	Synchronous (maximum) 150 MB/s (Drive Capability)	
	Seek Time (typical reads, including settling)	Single Track	1.5ms
		Average	11ms
		Maximum	22ms
	Rotational Speed	7200 rpm	
	Logical Blocks	976,773,168	
Operating Temperature	32° to 140° F (0° to 60° C) [case temp]		
Features	ATA Security		

HP 750 GB 7200rpm Primary SATA Hard Drive	Drive Weight	0.25 lb (115g)	
	Capacity	750 GB	
	Height	0.37 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ	
	Transfer Rate	Synchronous (maximum) 300 MB/s (Drive Capability)	
	Seek Time (typical reads, including settling)	Single Track	1.5ms
		Average	11ms
		Maximum	22ms
	Rotational Speed	7200 rpm	
	Logical Blocks	1,465,149,168	
Operating Temperature	32° to 140° F (0° to 60° C) [case temp]		
Features	ATA Security		

HP Upgrade Bay 750 GB Hard Drive	Drive Weight	0.44 lb (0.198 kg) with one bezel
	Capacity	750 GB
	Height	0.50 in (1.27 cm)
	Width	5.04 in (12.8 cm)
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ
	Transfer Rate	300 Mb/s
	Operating Temperature	32° to 140° F (0° to 60° C) [case temp]
	Features	ATA Security

Technical Specifications

Solid State Drives

128 GB Solid State Drive	Capacity*	128 GB	
	NAND Flash Memory	Multi Level Cell (MLC) with wear leveling controller	
	Interface type	SATA 6.0Gb/sec	
	Dimensions-external (W x H x D)	2.75 x 0.26 x 4 in (69.85 x 6.80 x 100.2 mm)	
	Weight	0.12 lb (55 g)	
	Internal transfer rate	Write speed	Up to 340 MB/s
		Read speed	Up to 120 MB/s
		Ultra DMA mode	Up to 150 MB/s
	Host transfer rate	DC power requirement	5 VDC 5%-100 mV ripple p-p
	Power	Total power consumption	<1.12Watt
		Temperature (operating)	32° to 158° F (0° to 70° C)
		Relative Humidity (operating)	5% to 95%
		Maximum Wet Bulb Temperature (operating)	84° F (29° C)
	Environmental (all conditions, non- condensing)		
Operating systems supported	Windows XP Professional, Windows XP Professional x64 or Windows XP Home, Windows 7/8/8.1 No driver is required for this device. Native support is provided by the operating system.		
Regulations	UL, CSA, EN 60950-2000, CISPR Pub 22 Class B, CNS 13438, AS/NZS CISPR 22:2002 Class B, R1113 and C1172 Class B		
Option kit contents	HP 128 GB Solid State Drive, documentation		

* For solid state disk drives, GB means 1 billion bytes. 16 GB is the unformatted capacity of this drive before a portion of the drive is reserved for flash management features. Actual capacity varies by content and will be less than 15.8GB.

Technical Specifications

HP 180 GB Solid State Drive	Capacity*	180 GB		
	NAND Flash Memory	Multi Level Cell (MLC)		
	Interface type	SATA 6Gb/sec (SATA Gen3 compliant)		
	Dimensions-external (W x H x D)	2.74 x 0.276 x 3 in (6.98 x 0.70 x 10.2 cm)		
	Weight	0.17 lb (78 g)		
	Internal transfer rate	Write speed	Up to 550 MB/s	
		Read speed	Up to 520 MB/s	
		DC power requirement	950 mW (typical non-DIPM)	
	Power	Total power consumption	<3.2 Watts (typical)	
		Environmental (all conditions, non-condensing)	Temperature (operating)	32° to 158° F (0° to 70° C)
			Relative Humidity (operating)	5% to 95%
	Regulations	Maximum Wet Bulb Temperature (operating)	84° F (29° C)	
			UL, CE, C-tick, BSMI, KCC, Microsoft WHQL, VCCI, SATA-IO	
	Option kit contents	HP 180 GB Solid State Drive, documentation		
	<hr/>			
HP 256 GB SED Solid State Drive	Capacity*	256 GB		
	NAND Flash Memory	Multi Level Cell (MLC) with wear leveling controller		
	Interface type	SATA 6 Gb/sec (SATA Gen3 compliant)		
	Dimensions-external (W x H x D)	2.74 x 0.276 x 3 in (6.98 x 0.70 x 10.2 cm)		
	Weight	0.16 lb (73 g)		
	Internal transfer rate	Write speed	Up to 450 MB/s	
		Read speed	Up to 260 MB/s	
		Ultra DMA mode	Up to 100 MB/s (Support Ultra DMA 5)	
	Host transfer rate			
	Power	DC power requirement	5 VDC 5%-100 mV ripple p-p	
		Total power consumption	< 4.50 Watt (max value)	
		Environmental (all conditions, non-condensing)	Temperature (operating)	32° to 158° F (0° to 70° C)
	Relative Humidity (operating)		5% to 95%	
	Operating systems supported	Maximum Wet Bulb Temperature (operating)	84° F (29° C)	
			Windows® 7 Home Basic 32-bit, Windows 7 Home Premium 32- and 64-bit, Windows 7 Professional 32- and 64-bit, Windows XP Professional 32-bit, Windows XP Professional x64 or Windows XP Home. No driver is required for this device, although the HP-tested driver is recommended. Native support is provided by the operating system.	
Regulations	UL, CSA, EN 60950-2005, CISPR Pub 22 Class B, CNS 13438, AS/NZS CISPR 22:2002 Class B, R1113 and C1172 Class B			

Technical Specifications

Option kit contents HP 256 GB SED Solid State Drive, documentation

*For solid state disk drives, GB means 1 billion bytes. 16 GB is the unformatted capacity of this drive before a portion of the drive is reserved for flash management features. Actual capacity varies by content and will be less than 15.8 GB.

Spares Information

Optical Drives		
	HP Mobile USB DVD/RW	SPS-DRV DVD RW DL LS External 659940-001 SPS-ADAPTER PWR USB 5V 2A 619240-001
	HP Upgrade Bay -- SuperMulti (DL) DVD+/-RW SATA Drive	375197-001
Removable Hard Drives	HP 320 GB 7200rpm SED Hard Drive	618243-001
	HP 2011 Upgrade Bay 500 GB Hard Drive	657405-001 (drive) 657406-001 (cradle) 657407-001 (bezel kit)

Compatibility

Optical Drives

HP Mobile USB DVD/RW
HP 2011 BNB Notebook Upgrade Bay DL DVD+/-RW

Compatible Notebooks

All HP Business Notebook PCs
HP ProBook b-series Notebook PCs
HP EliteBook 2170p Notebook PC
All 2011 and 2012 HP EliteBook 8XXX p-series Notebook PCs
All 2011 and 2012 w-series Mobile Workstations

Removable Hard Drives

HP 500 GB 7200rpm SED Hard Drive

HP 500 GB 7200 rpm Primary SATA Hard Drive

HP 750 GB 7200 rpm Primary SATA Hard Drive

Compatible Notebooks

HP EliteBook 8570w and 8770w Mobile Workstations
HP ProBook 6470b, 6475b and 6570b Notebook PCs
HP EliteBook 2170p and 2570p Notebook PCs
Folio 9470m Notebook PC
HP ProBook 430 G1, 440 G0, 450 G0, 470 G0, 445 G1, 450 G1, 470 G1, 640 G1, 650 G1, 645 G1, 655 G1, 4440s, 4540s, 4740s, 4445s/4446s, 4545s, 6470b, 8470p, 6570b, 8570p Notebook PCs
HP EliteBook 820 G1, 840 G1, 850 G1, 2570P, Folio 9470m
HP ZBook 15 and 17 Mobile Workstations
HP EliteBook 8570w and 8770 Mobile Workstations
HP ProBook 4XXX s-series Notebook PCs larger than 14 diagonal inches

Technical Specifications

HP Upgrade Bay 750 GB Hard Drive

HP ProBook 6360b, 6460b, 6465b, 6470b, 6475b, 6560b, 6565b, and 6570b Notebook PCs

HP EliteBook 2170p, 2560p, 2570p, 8460p, 8470p, 8560p, and 8570p Notebook PCs

HP EliteBook 8460w, 8470w, 8560w, 8570w, 8760w, and 8770w Mobile Workstations

HP ProBook 6360b, 6460b, 6465b, 6470b, 6475b, 6560b, 6565b, and 6570b Notebook PCs

HP EliteBook 2170p, 8460p, 8470p, 8560p, and 8570p Notebook PCs

HP EliteBook 8460w, 8470w, 8560w, 8570w, 8760w, and 8770w Mobile Workstations

Solid State Drives

HP 128 Solid State Drive

HP 180 GB Solid State Drive

HP 256 GB SED Solid State Drive

Compatible Notebooks

HP ProBook 6470b and 6570b Notebook PCs

HP Elitebook 2170p, 2570p, 8470p, and 8570p Notebook PCs

HP EliteBook Folio 9470m Notebook PC

HP EliteBook 8470w, 8570w, and 8770w Mobile Workstations

HP EliteBook 8460w, 8470w, 8560w, 8570w, 8760w, and 8770w Mobile Workstations

HP EliteBook 2170p, 2560p, 2570p, 2760p, 8460p, 8470p, 8560p, and 8570p Notebook PCs

HP ProBook 6460b, 6470b, 6560b, and 6570b Notebook PCs

Service and Support

Each HP Storage Solution carries a one-year limited warranty. Additional support is available 24 hours a day, seven days a week by phone as well as online support forums.

NOTE: [Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details.](#)

© Copyright 2014 Hewlett-Packard Development Company, L.P.

The information contained herein is subject to change without notice.

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein. All other trademarks are the property of their respective owners.