



HP EliteDesk 800 G1 Ultra-slim Desktop Business PC Specifications

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- Removable storage
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Product image



HP EliteDesk 800 G1 Ultra-slim Desktop Business PC

Product features

Feature	Description
Chipset	Intel Q87 Express
Processor	<ul style="list-style-type: none">Intel Core i7-4770S processorIntel Core i5-4570S processorIntel Core i5-4670S processor



Graphics	Intel integrated HD Graphics on all models
Optional discrete graphics solutions	AMD Radeon HD 7650A (MXM)
SATA hard drive	<ul style="list-style-type: none"> • 320GB, 7.2K rpm, SATA 6.0 Gb/s, SMART II • 500GB, 7.2K rpm, SATA 6.0 Gb/s, SMART II
Hybrid drives	<ul style="list-style-type: none"> • 500GB SATA 6G 2.5 (8GB cache) SSHD drive • 1TB SATA 6G 2.5 (8 GB cache) SSHD drive
SATA Solid State Drive (SSD)	<ul style="list-style-type: none"> • 120GB SATA 6G 2.5 SSD (with 3.5-inch adapter) • 120GB SATA 6G 2.5 SSD (with 3.5-inch adapter) • 160GB SATA 6G 2.5 SSD (with 3.5-inch adapter)
SATA Self-encrypting SSD	256GB SATA 2.5-inch Self-Encrypting (SED)
Optical disc drive	<ul style="list-style-type: none"> • Slim DVD-ROM • Slim BDXL Blu-ray writer • Slim BDXL Blu-ray writer
Memory	<p>Type: DDR3 non-ECC Up to 1600 MT/s</p> <p>Maximum: 16GB</p> <p>Number of slots: 2 SODIMM</p>
Intel Smart Response Technology Disk Cache modules	32GB mSATA Solid State Disk Cache
Audio/Multimedia	<ul style="list-style-type: none"> • HD audio with Realtek ALC221 codec (all ports) • DTS Studio Sound audio management technology • Microphone and headphone front ports (3.5 mm) • Line-out and Line-In rear Ports (3.5 mm) • Multi-streaming capable • Internal speaker (standard)
Networking/Communications	<ul style="list-style-type: none"> • Intel I217LM Gigabit Network Connection • Intel Centrino Advanced-N 6205 802.11 a/b/g/n
Keyboard	<ul style="list-style-type: none"> • HP PS/2 keyboard • HP USB keyboard • USB Smart Card (CCID) keyboard • HP USB and PS/2 Washable keyboard • HP Wireless keyboard and mouse Combo
Mice	<ul style="list-style-type: none"> • HP PS/2 mouse



	<ul style="list-style-type: none"> • HP USB mouse • HP USB 1000dpi Laser mouse • HP USB and PS/2 Washable mouse
Power	<p>89% Efficient @ 50% load:</p> <ul style="list-style-type: none"> • 135 W (UMA graphics) • 180 W (discrete graphics) <p>Standard efficiency: N/A 92% efficient @ 50% load: N/A 90% efficient @ 50% load: N/A</p>
Ports	<ul style="list-style-type: none"> • USB 2.0 - 2 (front), 4 (rear) • USB 3.0 - 2 (front) 2 (rear) • PS/2 - 1 keyboard (purple), 1 mouse (green) • Video - 1 VGA, 2 DisplayPort with multi-st • Audio - Front: headphone/mic, rear: line in • RJ-45 Network Interface - 1
Slots	<ul style="list-style-type: none"> • PCI Express Mini Card - 1 • MXM Graphics - 1 • mSATA - 1
Bays	<ul style="list-style-type: none"> • 2.5-inch internal storage drive - 1 • Secure Digital (SD) Reader - 1 • Slim ODD - 1

Memory specifications

Total Memory	Socket	
	Channel A (black)	Channel B (black)
4GB (dual channel)	4GB	1GB
8GB (dual channel)	4GB	4GB
16GB (dual channel)	8GB	8GB

Graphics specification

Intel HD graphics

Feature	Description



VGA controller	Integrated															
DisplayPort	<ul style="list-style-type: none"> • Multimode capable • Supports HDCP • Display Port Audio (2 streams) • HBR2 link rates and Multi-Stream Technology fo 															
Maximum graphics memory	<ul style="list-style-type: none"> • Microsoft Windows 7: Up to 1.7GB • Microsoft Windows 8: Up to 1.8GB 															
Maximum color depth	32 bits/pixel															
Supported display resolutions and refresh rates	<table border="1"> <thead> <tr> <th>Resolution</th> </tr> </thead> <tbody> <tr><td>800 x 600</td></tr> <tr><td>1024 x 768</td></tr> <tr><td>1152 x 864</td></tr> <tr><td>1280 x 600</td></tr> <tr><td>1280 x 720</td></tr> <tr><td>1280 x 800</td></tr> <tr><td>1280 x 960</td></tr> <tr><td>1280 x 1024</td></tr> <tr><td>1360 x 768</td></tr> <tr><td>1366 x 768</td></tr> <tr><td>1400 x 1050</td></tr> <tr><td>1440 x 900</td></tr> <tr><td>1600 x 900</td></tr> <tr><td>1600 x 1200¹</td></tr> </tbody> </table>	Resolution	800 x 600	1024 x 768	1152 x 864	1280 x 600	1280 x 720	1280 x 800	1280 x 960	1280 x 1024	1360 x 768	1366 x 768	1400 x 1050	1440 x 900	1600 x 900	1600 x 1200 ¹
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1600 x 900																
1600 x 1200 ¹																



1680 x 1050

1920 x 1080

1920 x 1200¹

1920 x 1440¹

2560 x 1440¹

2560 x 1600¹

NOTE: 1: Only supported on displays connected to the external DisplayPort connector.

AMD Radeon HD 7650A graphics card

Feature	Description
Form factor	MXM 3.0
Graphics controller	AMD Radeon HD 7650A
Core clock	600 MHz
Memory clock	800 MHz
Memory	2GB, DDR3, 128-bit wide
Bus type	MXM
Maximum power	35 W
Power source support	<ul style="list-style-type: none">• 12 V• 19 V
3D API support	DX11, SMS
HDCP support	Yes
Display maximum resolution	<ul style="list-style-type: none">• Digital: 2560 x 1600



	<ul style="list-style-type: none"> • Analog: 2048 x 1536 																				
Supported graphics APIs	<ul style="list-style-type: none"> • DX11 • OpenGL • Full 1080p BD (H264) playback in hardware • Multi-Stream DisplayPort support 																				
Supported display resolutions and refresh rates	<table border="1"> <thead> <tr> <th>Resolution</th> <th>Refresh Rates</th> </tr> </thead> <tbody> <tr> <td>800 x 600</td> <td>60 Hz</td> </tr> <tr> <td>1024 x 768</td> <td>60 Hz</td> </tr> <tr> <td>1280 x 720</td> <td>60 Hz</td> </tr> <tr> <td>1280 x 1024</td> <td>60 Hz</td> </tr> <tr> <td>1360 x 768</td> <td>60 Hz</td> </tr> <tr> <td>1440 x 900</td> <td>60 Hz</td> </tr> <tr> <td>1600 x 900</td> <td>60 Hz</td> </tr> <tr> <td>1680 x 1050</td> <td>60 Hz</td> </tr> <tr> <td>1920 x 1080</td> <td>60 Hz</td> </tr> </tbody> </table>	Resolution	Refresh Rates	800 x 600	60 Hz	1024 x 768	60 Hz	1280 x 720	60 Hz	1280 x 1024	60 Hz	1360 x 768	60 Hz	1440 x 900	60 Hz	1600 x 900	60 Hz	1680 x 1050	60 Hz	1920 x 1080	60 Hz
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1680 x 1050	60 Hz																				
1920 x 1080	60 Hz																				

NVIDIA NVS 310 graphics card

Feature	Description
Form factor	Low profile: 68 x 154 mm (2.713 x 6.15 in)
Graphics controller	NVIDIA NVS 310
Core clock	875 MHz
Memory clock	512MB DDR3
Memory bandwidth	14 GB/s
Maximum power	19.5 W



Display maximum resolution	Up to 2560 x 1600 (digital display) per display		
Maximum power	19.5 W		
Supported display resolutions and refresh rates	Resolution	DisplayPort to VGA	Display
	800 x 600	85	60
	1024 x 768	85	60
	1280 x 720	85	60
	1280 x 1024	85	60
	1440 x 900	85	60
	1600 x 1200	60	60
	1680 x 1050	60	60
	1920 x 1080	60-R	60-
	1920 x 1200	60-R	60-
	1920 x 1440	-	-
	2048 x 1536	-	-
	2560 x 1600	-	-

NVIDIA GeForce GT630 graphics card

Feature	Description
Form factor	PCIe x16 Card
Graphics controller	NVIDIA Kepler Architecture GPU
Core clock	875 MHz



Memory clock	891 MHz																																										
Memory bandwidth	28.5 GB/s																																										
Maximum power	19.5 W																																										
Display maximum resolution	<ul style="list-style-type: none"> • 2560 x 1600 digital • 2048 x 1536 analog 																																										
Memory size	2GB DDR3 128 bit																																										
Display support	Integrated 400 MHz RAMDAC																																										
Supported display resolutions and refresh rates	<table border="1"> <thead> <tr> <th>Resolution</th> <th>Analog Connection</th> <th>Digi</th> </tr> </thead> <tbody> <tr> <td>640x480</td> <td>85</td> <td>60</td> </tr> <tr> <td>800 x 600</td> <td>85</td> <td>60</td> </tr> <tr> <td>1024 x 768</td> <td>85</td> <td>60</td> </tr> <tr> <td>1280 x 720</td> <td>85</td> <td>60</td> </tr> <tr> <td>1280 x 1024</td> <td>85</td> <td>60</td> </tr> <tr> <td>1440 x 900</td> <td>75</td> <td>60</td> </tr> <tr> <td>1600 x 1200</td> <td>85</td> <td>60</td> </tr> <tr> <td>1680 x 1050</td> <td>75</td> <td>60</td> </tr> <tr> <td>1920 x 1080</td> <td>85</td> <td>60-</td> </tr> <tr> <td>1920 x 1200</td> <td>85</td> <td>60-</td> </tr> <tr> <td>1920 x 1440</td> <td>85</td> <td>60</td> </tr> <tr> <td>2048 x 1536</td> <td>75</td> <td>60</td> </tr> <tr> <td>2560 x 1600</td> <td>N/A</td> <td>60</td> </tr> </tbody> </table>	Resolution	Analog Connection	Digi	640x480	85	60	800 x 600	85	60	1024 x 768	85	60	1280 x 720	85	60	1280 x 1024	85	60	1440 x 900	75	60	1600 x 1200	85	60	1680 x 1050	75	60	1920 x 1080	85	60-	1920 x 1200	85	60-	1920 x 1440	85	60	2048 x 1536	75	60	2560 x 1600	N/A	60
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2048 x 1536	75	60																																									
2560 x 1600	N/A	60																																									



NVIDIA NVS 315 1GB PCIe x 16 graphics card

Feature	Description																														
Form factor	Low profile: 68.5 x 156.21 mm (2.713 x 6.15 in)																														
Graphics controller	NVIDIA NVS 315																														
Memory clock	891 MHz																														
Memory bandwidth	14 GB/s																														
Connectors	<ul style="list-style-type: none"> • DMS-59 • With support for dual VGA • Dual DVI or dual Display Port with the appropriate adapter 																														
Display maximum resolution	<ul style="list-style-type: none"> • Up to 2048 x 1536 VGA • 1920 x 1200 DVI • 2560 x 1600 DisplayPort 																														
Memory size	512MB DDR3																														
Supported display resolutions and refresh rates	<table border="1"> <thead> <tr> <th>Resolution</th> <th>Analog Connection</th> <th>Digital Connection</th> </tr> </thead> <tbody> <tr> <td>640 x 480</td> <td>85</td> <td>60</td> </tr> <tr> <td>720 x 480</td> <td>85</td> <td>60</td> </tr> <tr> <td>720 x 576</td> <td>85</td> <td>60</td> </tr> <tr> <td>800 x 600</td> <td>85</td> <td>60</td> </tr> <tr> <td>1024 x 768</td> <td>85</td> <td>60</td> </tr> <tr> <td>1280 x 720</td> <td>85</td> <td>60</td> </tr> <tr> <td>1280 x 1024</td> <td>85</td> <td>60</td> </tr> <tr> <td>1440 x 900</td> <td>75</td> <td>60</td> </tr> <tr> <td>1600 x 1200</td> <td>85</td> <td>60</td> </tr> </tbody> </table>	Resolution	Analog Connection	Digital Connection	640 x 480	85	60	720 x 480	85	60	720 x 576	85	60	800 x 600	85	60	1024 x 768	85	60	1280 x 720	85	60	1280 x 1024	85	60	1440 x 900	75	60	1600 x 1200	85	60
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1680 x 1050	75	60
1920 x 1080	85	60-
1920 x 1200	85	60-
1920 x 1440	85	N/A
2048 x 1536	75	N/A
2560 x 1440	N/A	60 ¹
2560 x 1600	N/A	60 ¹

NOTE: 1: DisplayPort only

AMD Radeon HD 8450 1GB PCIe x16 graphics card

Feature	Description						
Form factor	PCIe x16						
Graphics controller	AMD Radeon HD 8350						
Core clock	GPU engine operates at 523 MHz						
Memory clock	875 MHz						
Memory	1GB, DDR3, SDRAM						
HDCP support	Yes						
Display maximum resolution	<ul style="list-style-type: none"> Digital 1920 x 1200 Analog 2048 x 1536 						
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Resolution	Analog Connection	Digi					
640 x 480	85	60					



720 x 480	85	60
720 x 576	85	60
800 x 600	85	60
1024 x 768	85	60
1280 x 720	85	60
1280 x 1024	85	60
1440 x 900	75	60
1600 x 1200	85	60
1680 x 1050	75	75-
1920 x 1080	85	60-
1920 x 1200	85	60-
1920 x 1440	85	N/A
2048 x 1536	75	N/A
2560 x 1440	N/A	N/A
2560 x 1600	N/A	N/A

AMD Radeon HD 8390 1GB PCIe x16 DH graphics card

Feature	Description
Form factor	PCIe x16
Graphics controller	AMD Radeon HD 8490
Core clock	GPU engine operates at 875 MHz
Memory clock	900 MHz



Memory	1GB, DDR3, SDRAM																																																					
HDCP support	Yes																																																					
Display maximum resolution	<ul style="list-style-type: none"> • Digital 2560 x 1600 • Analog 2048 x 1536 																																																					
Supported display resolutions and refresh rates	<table border="1"> <thead> <tr> <th>Resolution</th> <th>Analog Connection</th> <th>Digital</th> </tr> </thead> <tbody> <tr> <td>300 x 200</td> <td>85</td> <td>60</td> </tr> <tr> <td>320 x 240</td> <td>85</td> <td>60</td> </tr> <tr> <td>640 x 480</td> <td>85</td> <td>60</td> </tr> <tr> <td>720 x 480</td> <td>85</td> <td>60</td> </tr> <tr> <td>720 x 576</td> <td>85</td> <td>60</td> </tr> <tr> <td>800 x 600</td> <td>85</td> <td>60</td> </tr> <tr> <td>1024 x 768</td> <td>85</td> <td>60</td> </tr> <tr> <td>1280 x 720</td> <td>85</td> <td>60</td> </tr> <tr> <td>1280 x 1024</td> <td>85</td> <td>60</td> </tr> <tr> <td>1440 x 900</td> <td>75</td> <td>60</td> </tr> <tr> <td>1600 x 1200</td> <td>85</td> <td>60</td> </tr> <tr> <td>1680 x 1050</td> <td>75</td> <td>75-</td> </tr> <tr> <td>1920 x 1080</td> <td>85</td> <td>60-</td> </tr> <tr> <td>1920 x 1200</td> <td>85</td> <td>60-</td> </tr> <tr> <td>1920 x 1440</td> <td>85</td> <td>N/A</td> </tr> <tr> <td>2048 x 1536</td> <td>75</td> <td>N/A</td> </tr> </tbody> </table>			Resolution	Analog Connection	Digital	300 x 200	85	60	320 x 240	85	60	640 x 480	85	60	720 x 480	85	60	720 x 576	85	60	800 x 600	85	60	1024 x 768	85	60	1280 x 720	85	60	1280 x 1024	85	60	1440 x 900	75	60	1600 x 1200	85	60	1680 x 1050	75	75-	1920 x 1080	85	60-	1920 x 1200	85	60-	1920 x 1440	85	N/A	2048 x 1536	75	N/A
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	2560 x 1440	N/A	N/A
	2560 x 1600	N/A	N/A

Hard disk and solid state storage specifications

HP 1TB 10K rpm SATA 6.0 Gb/s 3.5-inch hard disk drive

Feature	Description
Capacity	1TB
Rotational speed	10,000 rpm
Interface	Serial ATA (6.0 Gb/s)
Synchronous transfer rate (maximum)	Up to 600 MB/s
Buffer size	64MB
Cache	Adaptive
Seek time (typical reads, includes controller overhead, including settling)	<ul style="list-style-type: none"> • Single Track: 1.2 ms • Average: 3.6 ms • Full-Stroke: 9.0 ms
Height (nominal)	1.53 mm (0.6 in)
Width (nominal)	<ul style="list-style-type: none"> • Media diameter: 63.6 mm • Physical size: 69.9 mm
Operating temperature	5° to 55°C (41° to 131°)

HP 500GB 10K rpm SATA 6.0 Gb/s 3.5-inch hard disk drive

Feature	Description
Capacity	500GB
Rotational speed	10,000 rpm



Interface	Serial ATA (6.0 Gb/s)
Synchronous transfer rate (maximum)	Up to 600 MB/s
Buffer size	64MB
Cache	Adaptive
Seek time (typical reads, includes controller overhead, including settling)	<ul style="list-style-type: none"> • Single Track: 1.2 ms • Average: 3.6 ms • Full-Stroke: 9.0 ms
Height (nominal)	1.53 mm (0.6 in)
Width (nominal)	<ul style="list-style-type: none"> • Media diameter: 63.6 mm • Physical size: 69.9 mm
Operating temperature	5° to 55°C (41° to 131°)

HP 320GB 7.2K SATA 6.0 Gb/s 2.5-inch hard disk drive

Feature	Description
Capacity	320,072,933,376 bytes
Rotational speed	7,200 rpm
Interface	Serial ATA 2.0 (6.0 Gb/s)
Logical blocks	488,397,168
Buffer size	16MB
Cache	Adaptive
Seek time (typical reads, includes controller overhead, including settling)	<ul style="list-style-type: none"> • Single Track: 2.0 ms • Average: 11 ms • Full-Stroke: 22 ms
Height (nominal)	9.5 mm (0.374 in)
Width (nominal)	<ul style="list-style-type: none"> • Media diameter: 63.5 mm • Physical size: 70 mm (2.75 in)



Operating temperature	5° to 55°C (41° to 131°)
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HP 500GB 7200 RPM SATA 2.5-inch Self-Encrypting (SED) hard disk drive

Feature	Description
Capacity	500,107,862,016 bytes
Rotational speed	7,200 rpm
Drive type	Self-Encrypting Drive (SED)
Interface	SATA Interface conform
Segmented buffer with write cache	32768 KB - A portion o
Seek time (typical reads, includes controller overhead, including settling)	<ul style="list-style-type: none"> • Single Track: 1.0 ms • Average: 13 ms • Full-Stroke: 25 ms
Media diameter	63.5 mm (2.5 in)
Height (nominal)	6.8 ± 0.2 mm (0.267 in)
Width (nominal)	69.85 ± 0.25 mm (2.75
Length	100.2 ± 0.25 mm (3.94
Weight	95 g (3.35 oz) (max)
Operating temperature	5° to 55°C (41° to 131°)

HP 500GB 7.2K SATA 6.0Gb/s 2.5 2.5-inch hard disk drive

Feature	Description
Capacity	500,107,862,016 bytes
Rotational speed	7,200 rpm
Interface	Serial ATA 2.0 (6.0 Gb/s



Buffer size	16MB
Seek time (typical reads, includes controller overhead, including settling)	<ul style="list-style-type: none"> • Single Track: 2.0 ms • Average: 11 ms • Full-Stroke: 25 ms
Height (nominal)	9.5 mm (0.374 in)
Width (nominal)	<ul style="list-style-type: none"> • Media diameter: 63.5 mm • Physical size: 70 mm (2.75 in)
Operating temperature	5° to 55°C (41° to 131°)

HP 1TB SATA 6G 2.5-inch 8GB Solid State Hybrid Drive (SSHD)

Feature	Description
Capacity	1TB
Spindle speed	5,400 rpm +/- 0.2%
Drive type	Solid State Hybrid Drive
Interface	Serial ATA (SATA)
Cache buffer	64MB
NAND flash Commercial Multilevel Cell (cMLC)	8GB
Number of sectors	976,773,168
Seek time (typical reads, includes controller overhead, including settling)	<ul style="list-style-type: none"> • Single Track: 1.0 ms • Average: 12 ms
Height	9.5 +/- 0.2 mm (0.374 in)
Width	69.85 +/- 0.25 mm (2.75 in)
Length	100.35 +0.20 / -0.25 mm (3.95 in)
Weight	115 g (0.254 lb) (max)



Operating temperature

0° to 60°C (32° to 140°

HP 500GB SATA 6G 2.5-inch 8GB Solid State Hybrid Drive (SSHD)

Feature	Description
Capacity	500GB
Spindle speed	5,400 rpm +/- 0.2%
Drive type	Solid State Hybrid Drive
Interface	Serial ATA (SATA)
Cache buffer	64MB
NAND flash Commercial Multilevel Cell (cMLC)	8GB
Number of sectors	976,773,168
Seek time (typical reads, includes controller overhead, including settling)	<ul style="list-style-type: none">• Single Track: 2.0 ms• Average: 12 ms
Height	6.8 +/- 0.2 mm (0.268
Width	69.85 +/- 0.25 mm (2.7
Length	100.35 +0.20 / -0.25 m
Weight	95 g (0.209 lb) (max)
Operating temperature	0° to 60°C (32° to 140°

HP 120GB Solid State Drive

Feature	Description
Unformatted capacity	120GB
Architecture	Multi Level Cell (MLC) NAND Flash with wear leveling



Interface	Serial ATA 2.0 (3.0 Gb/s)
Dimensions (W x H x D)	6.98 x 0.95 x 10.2 cm (2.74 x 0.37 x 4 in)
Weight	80 g (0.18 lb)
Bandwidth performance	<ul style="list-style-type: none"> • Sustained sequential read: Up to 250 MB/s • Sustained sequential write: Up to 70 MB/s • Random read: Up to 35K IOPs • Random write: Up to 6.6K IOPs
Latency	<ul style="list-style-type: none"> • Read: 65 ms • Write: 85 ms
Power	<ul style="list-style-type: none"> • DC power requirement: 5 V dc 5%-100 mV ripple p-p • Total power consumption: 0.15 W (active); 0.075 W
Useful drive life	35TB written, up to 20GB/day for 5 years
Relative humidity	5% to 95%
Maximum wet bulb temperature (operating)	29°C (84°F)
Operating temperature	0° to 70°C (32° to 158°F)

HP 128GB Solid State Drive

Feature	Description
Unformatted capacity	128GB
Architecture	Multi Level Cell (MLC) NAND
Interface	SATA 6 GB/s
Dimensions (W x H x D)	6.985 x 0.7 x 10.05 cm (2.75 x 0.276 x 3.96 in)
Weight	73 g (0.16 lb)
Bandwidth performance	<ul style="list-style-type: none"> • Sustained sequential read: Up to 450 MB/s • Sustained sequential write: Up to 260 MB/s • Random read: Up to 46K IOPs • Random write: Up to 56K IOPs



Latency	<ul style="list-style-type: none"> • Read: 55 ms (TYP) • Write: 55 ms (TYP)
Power	<ul style="list-style-type: none"> • DC power requirement: Min 4.5 V, Max 5.5 V • Total power consumption: 160 mW (Active), 85 mW
Useful drive life	1.2 million device hours
Relative humidity	5% to 95%
Maximum wet bulb temperature (operating)	29°C (84°F)
Operating temperature	0° to 70°C (32° to 158°F)
Shock	1,500 G/1.0 msec
Regulations	<ul style="list-style-type: none"> • UL • CSA • EN 60950-2000 • CISPR Pub 22 Class B • CNS 13438 • AS/NZS CISPR 22:2002 Class B • Korea KCC • CE Mark
Option kit contents	<ul style="list-style-type: none"> • HP 128 GB Solid State Drive • Documentation • 3.5-inch bay adapter bracket • 3.5-inch bay adapter bracket screws • SATA cable

HP 160GB Solid State Drive

Feature	Description
Unformatted capacity	160GB
Architecture	Multi Level Cell (MLC) NAND
Interface	SATA 3 GB/s
Dimensions (W x H x D)	6.98 x 0.95 x 10.2 cm (2.74 x 0.37 x 4 in)
Weight	80 g (0.18 lb)



Bandwidth performance	<ul style="list-style-type: none"> • Sustained sequential read: Up to 250 MB/s • Sustained sequential write: Up to 70 MB/s • Random read: Up to 35K IOPs • Random write: Up to 6.6K IOPs
Latency	<ul style="list-style-type: none"> • Read: 65 ms • Write: 85 ms
Power	<ul style="list-style-type: none"> • DC power requirement: 5 V dc 5%-100 mV ripple p-p • Total power consumption: 0.15 W (Active); 0.075 W (Idle)
Useful drive life	<ul style="list-style-type: none"> • 0.15 W (Active) • 0.075 W (Idle)
Relative humidity	5% to 95%
Operating temperature	0° to 70°C (32° to 158°F)
Shock	1,500 G/1.0 ms
Regulations	<ul style="list-style-type: none"> • UL • CSA • EN 60950-2000 • CISPR Pub 22 Class B • CNS 13438 • AS/NZS CISPR 22:2002 Class B • Korea KCC • CE Mark

HP 256GB SATA 2.5-inch Self-Encrypting (SED) Solid State Drive

Feature	Description
Unformatted capacity	256,186,209,271 bytes
Architecture	Self-Encrypting (SED) Solid State Drive with 25nm MLC NAND Flash and
Interface	Serial ATA 2.0 (3.0 Gb/s)
NAND flash	25 nm MLC NAND Flash
Height	7 mm (.275 in)
Width	69.85 mm (2.75 in)



Length	100.5 mm (3.95 in)
Weight	73 g (0.161 lb)
Bandwidth performance	<ul style="list-style-type: none"> • Sustained sequential read: Up to 450 MB/s • Sustained sequential write: Up to 260 MB/s • Random read: Up to 46K IOPs • Random write: Up to 56K IOPs
Latency	<ul style="list-style-type: none"> • Read: 55 μs • Write: 55 μs
Power	SATA power consumption: <ul style="list-style-type: none"> • 160 mW (active average) • < 85 mW (idle average)
Useful drive life	<ul style="list-style-type: none"> • 0.15 W (Active) • 0.075 W (Idle)
Relative humidity	5% to 95%
Operating temperature	0° to 70°C (32° to 158°F)
Shock	1,500 G/1.0 ms

HP 500GB 7.2K rpm SATA 6.0 Gb/s 3.5-inch hard disk drive

Feature	Description
Capacity	500,107,862,016 bytes
Rotational speed	7,200 rpm
Interface	Serial ATA 3.0 (6.0 Gb/s)
Buffer size	16MB
Logical blocks	976,773,168
Height	2.54 cm (1 in)
Width	<ul style="list-style-type: none"> • Media diameter: 8.89 cm



	<ul style="list-style-type: none"> Physical size: 10.2 cm (
Seek time (typical reads, includes controller overhead, including settling)	<ul style="list-style-type: none"> Single track: 2.0 ms Average: 11 ms Full-stroke: 21 ms
Operating temperature	5° to 55°C (41° to 131°

HP 1TB 7.2K rpm SATA 6.0 Gb/s 3.5-inch hard disk drive

Feature	Description
Capacity	1,000,204,886,016 byt
Rotational speed	7,200 rpm
Interface	Serial ATA 3.0 (6.0 Gb/s
Buffer size	32MB
Logical blocks	1,953,525,168
Height	2.54 cm (1 in)
Width	<ul style="list-style-type: none"> Media diameter: 8.89 c Physical size: 10.2 cm (
Seek time (typical reads, includes controller overhead, including settling)	<ul style="list-style-type: none"> Single track: 2.0 ms Average: 11 ms Full-stroke: 21 ms
Operating temperature	5° to 55°C (41° to 131°

HP 2TB 7.2K rpm SATA 6.0 Gb/s 3.5-inch hard disk drive

Feature	Description
Capacity	2TB
Rotational speed	7,200 rpm
Interface	SATA 6 Gb/s NCQ



Buffer size	64MB
Cache, multisegmented (MB)	1,953,525,168
Height	2.61 cm (1.02 in)
Width	10.16 cm (4.0 in)
Depth	14.69 cm (5.787 in)
Weight	626 g (1.38 lb)
Seek time	<ul style="list-style-type: none"> • Read: 8.5 ms • Write: 9.5 ms
Operating temperature	0° to 60°C (32° to 140°F)

Removable storage

HP Slim SuperMulti DVD writer drive

Feature	Description
Height	12.7 mm
Orientation	Either horizontal or vertical
Interface type	SATA/ATAPI
Disc recording capacity	Up to 8.5GB DL or 4.7GB standard
Dimensions (W x H x D)	128 x 13.6 x 129 mm (5.0 x 0.5 x 5.0 in)
Weight (max)	190 g (0.42 lb)
Write speeds	<ul style="list-style-type: none"> • DVD-RAM - Up to 5X • DVD-R DL - Up to 4X • DVD+R - Up to 8X • DVD+RW - Up to 4X • DVD+R DL - Up to 4X • DVD-R - Up to 8X • DVD-RW - Up to 6X • CD-R - Up to 24X • CD-RW - Up to 16X



Read speeds	<ul style="list-style-type: none"> • DVD-RAM - Up to 5X • DVD-RW, DVD+RW - Up to 8X • DVD-R DL, DVD+R DL - to 6X • DVD+R, DVD-R - Up to 8X • DVD-ROM DL, DVD-ROM - Up to 8X • CD-ROM, CD-R - Up to 24X • CD-RW - Up to 24X
Access time (typical reads, including settling)	<ul style="list-style-type: none"> • Random - DVD: < 140 ms (typical), CD: < • Full stroke - DVD: < 250 ms (seek), CD: < • Stop time - < 4 seconds • Cache buffer - 2MB (minimum) • Data Transfer Modes: • ATA PIO mode 4 (16.7 MB/s) • ATA Multi-word DMA mode 2 (16.7 MB/s) • ATA UltraDMA Mode 3 (44.4 MB/s - defal
Power	<ul style="list-style-type: none"> • Source - Four-pin, DC power receptacle • DC power requirement: • 5 V dc \pm 5%-100 mV ripple p-p • 12 V dc \pm 5%-200 mV ripple p-p • DC current: • 5 VDC (< 1000 mA typical, 1600 mA ma) • 12 VDC (< 600 mA typical, 1400 mA ma) • Total drive power (standby mode): < 2.5
Audio output	<ul style="list-style-type: none"> • Line-Out - 0.7 VRMS • Signal-to-Noise ratio - 74 dB • Channel separation - 65 dB
Environmental conditions (operating - non-condensing)	<ul style="list-style-type: none"> • Temperature - 5° to 50°C (41° to 122°F) • Relative humidity - 10% to 90% • Maximum wet bulb temperature - 30°C (

HP Slim Blu-ray BDXL drive

Feature	Description
Height	12.7-mm Slim tray-load
Orientation	Either horizontal or vertical
Interface type	SATA/ATAPI
Disc recording capacity	Up to 128GB QL, 100 GB TL, 50 GB DL or



Dimensions (W x H x D)	128 x 12.7 x 127 mm (5.04 x 0.5 x 5.0 in)																											
Weight (max)	Up to 170 g (0.37 lb)																											
Write speeds	<table border="1"> <thead> <tr> <th data-bbox="943 255 1240 356">Type</th> <th data-bbox="1240 255 1442 356">Triple-layer</th> </tr> </thead> <tbody> <tr> <td data-bbox="943 356 1240 459">BD-R</td> <td data-bbox="1240 356 1442 459">Up to 4x</td> </tr> <tr> <td data-bbox="943 459 1240 562">BD-RE</td> <td data-bbox="1240 459 1442 562">Up to 2x</td> </tr> <tr> <td data-bbox="943 562 1240 665"></td> <td data-bbox="1240 562 1442 665">Single-layer</td> </tr> <tr> <td data-bbox="943 665 1240 768">BD-R</td> <td data-bbox="1240 665 1442 768">Up to 6x</td> </tr> <tr> <td data-bbox="943 768 1240 871">BD-RE</td> <td data-bbox="1240 768 1442 871">Up to 2x</td> </tr> <tr> <td data-bbox="943 871 1240 974">DVD-R</td> <td data-bbox="1240 871 1442 974">Up to 8x</td> </tr> <tr> <td data-bbox="943 974 1240 1077">DVD-RW</td> <td data-bbox="1240 974 1442 1077">Up to 6x</td> </tr> <tr> <td data-bbox="943 1077 1240 1180">DVD+R</td> <td data-bbox="1240 1077 1442 1180">Up to 8x</td> </tr> <tr> <td data-bbox="943 1180 1240 1283">DVD+RW</td> <td data-bbox="1240 1180 1442 1283">Up to 8x</td> </tr> <tr> <td data-bbox="943 1283 1240 1386">DVD-RAM</td> <td data-bbox="1240 1283 1442 1386">Up to 5x</td> </tr> <tr> <td data-bbox="943 1386 1240 1489">CD-R</td> <td data-bbox="1240 1386 1442 1489">Up to 24x</td> </tr> <tr> <td data-bbox="943 1489 1240 1581">CD-RW</td> <td data-bbox="1240 1489 1442 1581">Up to 24x</td> </tr> </tbody> </table>		Type	Triple-layer	BD-R	Up to 4x	BD-RE	Up to 2x		Single-layer	BD-R	Up to 6x	BD-RE	Up to 2x	DVD-R	Up to 8x	DVD-RW	Up to 6x	DVD+R	Up to 8x	DVD+RW	Up to 8x	DVD-RAM	Up to 5x	CD-R	Up to 24x	CD-RW	Up to 24x
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	BD-RE	l
	DVD-R	l
	DVD-RW	l
	DVD+R	l
	DVD+RW	l
	BDMV (AACs Compliant Disc)	l
	DVD-RAM	l
	DVD-Video (CSS Compliant Disc)	l
Access time (typical reads, including settling)	<ul style="list-style-type: none"> • CD-R/RW/ROM: Up to 24x • CD-DA (DAE): Up to 20x/10x (Read/Play) • Random: • BD-ROM: 205 ms (typical) • DVD-ROM: 185 ms (typical) • CD-ROM: 165 ms (typical) • Full stroke: • BD-ROM: 350 ms (typical) • DVD-ROM: 345 ms (typical) • CD-ROM: 340 ms (typical) 	
Power	<ul style="list-style-type: none"> • Source - Slimline SATA DC power receptacle • DC power requirement: 5 V dc \pm 5%-100 mV ripple p-p • DC current: 5 V dc -1200 mA typical, 2000 mA maximum 	
Environmental conditions (operating - non-condensing)	<ul style="list-style-type: none"> • Temperature: 5° to 50°C (41° to 122°F) • Relative humidity: 10% to 90% • Maximum wet bulb temperature: 30°C (86°F) 	

HP Slim DVD-ROM drive

Feature	Description
Height	12.7 mm
Orientation	Either horizontal or vertical



Interface type	SATA/ATAPI
Dimensions (W x H x D)	128 x 13.6 x 129 mm (5.0 x 0.5 x 5.0 in)
Weight (max)	190 g (0.42 lb)
Read speeds	<ul style="list-style-type: none"> • DVD-ROM - Up to 8X • CD-ROM, CD-R - Up to 24X • CD-RW - Up to 24X
Access time (typical reads, including settling)	<ul style="list-style-type: none"> • Random DVD: • DVD: < 140 ms (typical) • CD: < 125 ms (typical) • Random CD • DVD: < 250 ms (seek) • CD: < 210 ms (seek)
Power	<ul style="list-style-type: none"> • Source - Four-pin, DC power receptacle • DC power requirement: 5 V dc \pm 5%-100 mV ripple p-p • DC current: 5 VDC (< 1000 mA typical, 1600 mA max) • Total drive power (standby mode): < 2.5
Audio output	<ul style="list-style-type: none"> • Line-Out - 0.7 VRMS • Signal-to-Noise ratio - 74 dB • Channel separation - 65 dB
Environmental conditions (operating - non-condensing)	<ul style="list-style-type: none"> • Temperature - 5° to 50°C (41° to 122°F) • Relative humidity - 5% to 85% • Maximum wet bulb temperature - 30°C (

Electrical specifications

Feature	Description
High efficiency	<ul style="list-style-type: none"> • Integrated graphics: 135-W active PFC 87% • Discrete graphics: 180-W active PFC 87%
Operating voltage range	90 - 264 V ac
Rated voltage range	100 - 240 V ac



Rated line frequency	50/60 Hz
Operating line frequency range	47 - 63 Hz
Rated input current	N/A
Rated input current with Energy Efficient Power Supply	<ul style="list-style-type: none"> • 135 W: 2.4 A • 180 W: 2.9 A
Current leakage (NFPA 99)	< 250 µA
External power adapter dimensions	170 x 66 x 38 mm (6.7 x 2.6 x 1.5 in)

Physical specifications

Feature	Description
Chassis (W x H x D)	251 x 66 x 254 mm (9.9 x 2.6 x 10 in)
System volume	4.2 L (257.5 cu in)
System weight	3.1 kg (6.8 lb)
Maximum supported weight (desktop orientation)	35.0 kg (77.0 lb)
Tower stand (W x H x D)	125 x 27 x 170 mm (4.9 x 1.1 x 6.7 in)
Packaging (W x H x D)	398 x 218 x 500 mm (15.7 x 8.6 x 19.7 in)
Shipping weight	6.5 kg (14.4 lb)
Palletization profile	<ul style="list-style-type: none"> • 6-units per layer • 10-layer maximum • 60-units per pallet

Software/OS

Feature	Description
Operating system	Preinstalled:



- Windows 8 Pro (64-bit)
 - Windows 8 (64-bit)
 - Windows 7 Ultimate (32-bit)
 - Windows 7 Ultimate (64-bit)
 - Windows 7 Professional (32-bit)
 - Windows 7 Professional (64-bit)
 - Windows 7 Professional (32-bit) (available through downgrade rights f
 - Windows 7 Professional (64-bit) (available through downgrade rights f
 - Windows 7 Home Premium (32-bit)
 - Windows 7 Home Premium (64-bit)
 - FreeDOS 2.0
 - Novell SUSE Linux Enterprise Desktop 11
- Supported:**
- Windows 7 Enterprise (32-bit or 64-bit)
 - Windows 8 (64-bit)
 - Windows 8 Pro (64-bit)
 - Windows 8 Enterprise (64-bit)
- Limited support:**
- Windows XP Professional (32-bit)
- Certified:**
- Novell SUSE Linux Enterprise Desktop 11 1
 - Red Hat Enterprise Linux 641
- Test and document:**
- Windows Vista Enterprise (32-bit or 64-bit)
 - Windows Vista Professional (32-bit or 64-bit)

Security software

Windows 8:

- Computrace (status tracing)¹
- Device Access Manager
- Drive Encryption
- File Sanitizer (Activated via Wizard)
- Disk Sanitizer (external version)²
- Microsoft Security Essentials
- HP Client Security

Windows 7:

- Computrace (status tracing)¹
- Device Access Manager
- Drive Encryption
- File Sanitizer (Activated via Wizard)
- Disk Sanitizer (external version)²
- Microsoft Defender
- Secure Erase
- HP Client Security

Multi-media software

Windows 7/8:

- Cyberlink Media Suite
- Cyberlink PhotoDirector
- Cyberlink Power Director
- Cyberlink Power DVD, BD
- Cyberlink Power2Go (Secure Burn)



Communication software	Windows 8: HP Wireless Hotspot
HP Value Add software	Windows 7: <ul style="list-style-type: none"> • HP ePrint Driver • HP PageLift • HP Support Assistant • HP Recovery Disk Creator Windows 8: <ul style="list-style-type: none"> • HP ePrint Driver • HP PageLift • HP Recovery Manager • HP Support Assistant • HP QuickStart
Third party software	Windows 7: <ul style="list-style-type: none"> • Adobe Flash Player • Bing Search for Internet Explorer 10 • Box • Evernote • PDF Complete • Skype Windows 8: <ul style="list-style-type: none"> • Bing Search • Evernote • PDF Complete, Corporate Edition • Skype

Environmental specifications

Feature	Description
Temperature	<ul style="list-style-type: none"> • Operating: 10° to 35°C (50° to 95°F) • Non-operating: -0° to 60°C (-22° to 140°F)
Relative humidity	<ul style="list-style-type: none"> • Operating: 10% to 90% (non-condensing at ambient) • Non-operating: 5% to 95% (non-condensing at ambient)
Maximum altitude (unpressurized)	<ul style="list-style-type: none"> • Operating: 3048 m (10,000 ft) • Non-operating: 9144 m (30,000 ft)

Warranty information

Terms of warranty apply to the individual model purchased. To see if your HP product is still in warranty, go to the [HP Product Warranty Check page](#).



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