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HP ZBook 14 G2 Mobile Workstation Specifications

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Product image



HP ZBook 14 G2 Mobile Workstation

Product features



Feature	Description
Processor*	<ul style="list-style-type: none"> ● 5th Generation Intel® Core™ i7 5600U (2.6 GHz, 4 MB cache, 2 cores)* Up to 3.2 GHz with Intel Turbo Boost Technology ● 5th Generation Intel® Core™ i7 5500U (2.4 GHz, 4 MB cache, 2 cores)* Up to 3.0 GHz with Intel Turbo Boost Technology ● 5th Generation Intel® Core™ i5 5300U (2.3 GHz, 3 MB cache, 2 cores)* Up to 2.9 GHz with Intel Turbo Boost Technology ● 5th Generation Intel® Core™ i5 5200U (2.2 GHz, 3 MB cache, 2 cores)* Up to 2.7 GHz with Intel Turbo Boost Technology <p>NOTE: *Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. 64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel® 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Intel's numbering is not a measurement of higher performance.</p>
Chipset	Non-applicable, processor specific



Feature	Description
Intel Core i5 with VPRO/Core i7 with VPRO Technology Capable	<p>Intel Core i5 with vPro and Core i7 with vPro technology is a selectable feature that is available on units configured with select processors, a qualified Intel Centrino® WLAN module and a preinstalled Windows operating system. It provides advances in remote manageability, security, energy efficient performance, and wireless connectivity. Intel Active Management Technology 9.0 (iAMT) offers built-in manageability and proactive security for networked mobile workstations, even when they are powered off* or when the operating system is inoperable. It can help identify threats before they reach the network, isolate infected systems, and update mobile workstations regardless of their power state.</p> <p>NOTE: *Requires a Windows operating system, network hardware and software, connection with a power source, and a direct (non-VPN) corporate network connection which is either cable or wireless LAN. Some functionality of Intel Core i5 with vPro/Core i7 with vPro technology, such as Intel Active Management technology and Intel Virtualization technology, requires additional third- party software in order to run. Availability of future "virtual appliances" applications for Intel Core i5 with vPro/Core i7 with vPro technology is dependent on third- party software providers. Compatibility with future "virtual appliances" is yet to be determined.</p>
Graphics	<ul style="list-style-type: none"> ● Intel HD 5500 Graphics* ● AMD FirePro™ M4150 FireGL (1 GB dedicated GDDR5) ● Microsoft DirectX 11.1 (Shader Model 5.0) and OpenGL 4.2 capable ● AMD Enduro™ Technology supported <p>NOTE: * Supports up to 3 independent displays via internal LCD Panel, system DisplayPort, system VGA, or using the HP UltraSlim Docking Station DisplayPort and VGA ports (sold separately).</p>
Display	<p>Internal</p> <p>Non-Touch</p> <ul style="list-style-type: none"> ● 14.0" diagonal LED-backlit HD SVA eDP anti-glare (1366x768) ● 14.0" diagonal LED-backlit HD SVA eDP anti-glare (1366x768) with camera ● 14.0" diagonal LED-backlit HD+ SVA eDP anti-glare (1600x900) ● 14.0" diagonal LED-backlit HD+ SVA eDP anti-glare (1600x900) with camera ● 14.0" diagonal LED-backlit FHD UWVA IPS eDP anti-glare + PSR (1920x1080)



Feature	Description
	<ul style="list-style-type: none"> • 14.0" diagonal LED-backlit FHD UWVA IPS eDP anti-glare + PSR (1920x1080) with camera <p>Touch</p> <ul style="list-style-type: none"> • 14.0" diagonal LED-backlit FHD UWVA IPS eDP anti-glare + PSR + touch (1920x1080) • 14.0" diagonal LED-backlit FHD UWVA IPS eDP anti-glare + PSR + touch (1920x1080) with camera • Touch panel has chemically-strengthened Corning® Gorilla® Glass 3 top cover <p>External</p> <ul style="list-style-type: none"> • Up to 30-bit (2³⁰) per pixel "Deep Color" (total of 1,073,741,824 color variations) <p>VGA</p> <p>Port supports resolutions up to 1920x1200 at 60 Hz, and lower resolutions at up to 75 Hz.</p> <p>DisplayPort w/MST (Multi-stream Transport)</p> <ul style="list-style-type: none"> • Supports resolutions up to QFHD 3840 x 2160, 24/30-bit color depth at 60 Hz, and WUXGA (1920 x 1200) monitors, with 24/30-bit color depth up to 120 Hz. <p>DisplayPort Features</p> <ul style="list-style-type: none"> • Multi-stream Transport (MST): Multi-stream Transport is a DP 1.2 feature that allows daisy chaining of DP 1.2 monitors (requires monitor with DP 1.2 MST capability), or the use of DP 1.2 hubs with MST to achieve a maximum of 3 active displays. <p>DVI-D (single link)</p> <ul style="list-style-type: none"> • DVI support requires a DP-to-DVI adapter (sold separately). Dual-Link DVI is supported with an active USB powered adapter (sold separately). <p>NOTE: Resolutions are dependent upon monitor capability, and resolution and color depth settings.</p>

Feature	Description
Storage and drives	<p>Z Turbo Drive Storage Bay</p> <ul style="list-style-type: none"> • 320/500 GB*5400 rpm SMART SATA II HDD <p>NOTE: *For hard drives GB = 1 billion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 8.1) of system disk is reserved for the system recovery software.</p>
Memory	<p>Primary Storage Bay</p> <p>Hard Drives</p> <ul style="list-style-type: none"> • 1 TB 7200rpm SMART SATA III • 500 GB 7200 rpm SMART SATA III • 500 GB 7200 rpm SMART SATA III Self Encrypting Drive • 500 GB 5400 rpm SMART SATA III Self Encrypting Drive FIPS 140-2 compliant <p>Solid State Drive</p> <ul style="list-style-type: none"> • 128/180/240/256/512 GB SATA 6 Gb/sec • 180/256 GB SATA 6 Gb/sec Self Encrypting Drive <p>HP 3D DriveGuard (Windows only)</p> <ul style="list-style-type: none"> • The hard drive is mounted directly to the notebook frame, reducing the transmission of shock to the hard drive. Uses three-axis digital motion detection with intelligent sensitivity to help protect the hard drive during normal use from shock and vibration. The digital accelerometer temporarily halts all data transfer and parks the hard drive when abrupt motion is detected. <p>Z Turbo Drive Storage Slot (M.2)</p> <ul style="list-style-type: none"> • 256 GB PCIe Solid State Drive <p>NOTE: If 256 GB Z Turbo Drive (PCIe SSD) is selected, it will be set as primary storage, and any of the HDD and SSD can be configured as secondary storage. For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB (for Windows 7) of system and up to 30 GB (for Windows 8) disk is reserved for system recovery software.</p>
Networking/Communications	Local Area Network (LAN)



Feature	Description
	<p data-bbox="523 174 1422 210">Integrated Intel I218-LM Gigabit Network Connection (10/100/1000)*</p> <p data-bbox="523 250 635 286">Wireless</p> <p data-bbox="523 327 1453 600">Support for a broad range of secure, integrated wireless LAN and wireless WAN options featuring support for the latest industry standards. Broadband Wireless (WWAN) requires a Windows operating system and is available in select countries as a standard, factory configurable feature only. Integrated Bluetooth is also available (factory configurable only) and can be combined with any of the supported wireless LAN and wireless WAN options.</p> <p data-bbox="523 640 927 676">WLAN** (Wireless LAN Options)</p> <ul data-bbox="523 716 1453 963" style="list-style-type: none"> • Intel Dual Band Wireless-AN 7265 802.11a/b/g/n (2x2) + Bluetooth 4.0 Combo Adapter • Intel Dual Band Wireless-AC 7265 802.11a/b/g/n (2x2) Wi-Fi + Bluetooth 4.0 Combo Adapter • Intel Dual Band Wireless-AC 3160 802.11ac (1x1) Wi-Fi + Bluetooth 4.0 Combo Adapter <p data-bbox="523 1003 1018 1039">WWAN *** (Mobile Broadband) options</p> <ul data-bbox="523 1079 1302 1214" style="list-style-type: none"> • HP hs3110 HSPA+ Intel® Mobile Broadband Module • HP lt4112 LTE/HSPA+ Gobi™ 4G Mobile Broadband Module • HP lt4211 LTE/EV-DO/HSPA+ Gobi™ 4G Mobile Broadband Module <p data-bbox="523 1254 951 1290">Intel® Wireless Display (WiDi)****</p> <p data-bbox="523 1330 1445 1406">Intel® WiDi technology enables users to stream content wirelessly from a compatible computer to a projector, TV or monitor.</p> <div data-bbox="523 1447 1461 2087" style="background-color: #f0f0f0; padding: 10px;"> <p data-bbox="552 1464 1436 2078">NOTE: *The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required. **Wireless access point and Internet service is required and is not included. Availability of public wireless access points limited. ***WWAN is an optional feature and WWAN connection requires wireless data service contract, network support, and is not available in all areas. Contact your service provider to determine the coverage area and availability. Connection speeds will vary based on location, environment, network conditions and other factors. 4G LTE not available on all products, in all regions and only available on products featuring Intel processors. ****Integrated Intel Wi-Di feature is available on select configurations only and requires separately purchased projector, TV or monitor with an integrated or</p> </div>

Feature	Description
	<p>external Wi-Di receiver. For more information on Intel® Wi-Di Display visit www.intel.com/go/wirelessdisplay .</p>
Audio/Multimedia	<p>Audio</p> <ul style="list-style-type: none"> • DTS Studio Sound HD audio (Windows OS only) • Integrated stereo speakers • Integrated microphone (dual-microphone array when equipped with optional webcam) • Button for volume mute; function keys for volume up and down • Combo mic-in / stereo headphone-out jack <p>Webcam</p> <p>720p HD* webcam (select models)</p> <ul style="list-style-type: none"> • HD format (widescreen) • Supports videoconferencing and still image capture • High quality fixed focus lens • Video capture at various resolutions up to 1280x720 resolution (720p) and up to 30fps • M-JPEG compression supports higher frame rates for video capture and videoconferencing • Improved low light sensitivity • Improved dynamic range <p>NOTE: *HD content required to view HD images.</p>



Feature	Description
Keyboard/Pointing devices/Buttons and function keys	<p>Keyboard</p> <p>Optional backlit keyboard with Function key control to toggle backlit brightness setting - off/full/half brightness The HP spill-resistant keyboard is designed using a thin layer of Mylar film under the keyboard and a drain system that funnels fluid through a hole in the bottom of the notebook. This minimizes the risk of damage to sensitive components underneath. The 101/102-key compatible keyboard features a full-pitch key layout with desktop keyboard features, such as editing keys, both left and right control and alt keys, function keys, and 19.05 x 19.05 mm key pitch (center-to-center spacing). U.S. and International key layouts are available. Other features include hot keys for instant access to power conservation and brightness.</p> <p>Pointing devices</p> <ul style="list-style-type: none"> • Touchpad with On/Off button, two-way scroll, gestures, two pick buttons • Point stick with two additional point stick buttons • Image sensor touchpad for enhanced performance and improved precision on scroll and gesture <p>Buttons and Function Keys</p> <p>Separate launch buttons provide easy access to the following features: wireless on/off, volume mute. Function keys provide control of the following features: standby mode, external display, volume down, volume up, HP Power Assistant (Windows 7 only), and display brightness.</p>

Power specifications

Specification	Description
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Specification	Description
Stand-alone power requirements (AC power)	<ul style="list-style-type: none"> • Nominal operating voltage: <ul style="list-style-type: none"> • 19.5 V dc @ 3.3 A • Average Operating Power: <ul style="list-style-type: none"> • Windows 7 (64-bit) AMD FirePro Graphics: 16.8 W • Windows 7 (32-bit) AMD FirePro Graphics: 16.28 W • Max operating power: <ul style="list-style-type: none"> • < 65 W

Display specifications

14" diagonal LED-backlit HD SVA eDP anti-glare (1366 x 768)

Specification	Description
Outline Dimensions (W x H x D)	32.09 x 20.56 x 0.36 cm (12.6 x 8.09 x 0.14 in)
Active Area	30.94 x 17.395 cm (12.18 x 6.85 in)
Weight	320g (0.71 lb) (max)
Diagonal Size	35.6 cm (14.0 in)
Surface Treatment	Anti-glare
Contrast Ratio	300:1 (min)
Refresh Rate	60 Hz



Specification	Description
Brightness	200 nit (typical)
Pixel Resolution	<ul style="list-style-type: none"> • Format 1366 x 768 (HD) • Configuration RGB Stripe
Interface	eDP 1.2 (1 lane)
LCD Mode	TN
PPI	125 ppi
Viewing Angle	SVA 40/40/15/30 (Left/Right/Down/Up)

14" diagonal LED-backlit HD+ SVA eDP anti-glare (1600 x 900)

Specification	Description
Outline Dimensions (W x H x D)	32.09 x 20.56 x 0.36 cm (12.6 x 8.09 x 0.14 in)
Active Area	30.96 x 17.415 cm (12.19 x 6.86 in)
Weight	325 g (0.72 lb) (max)
Diagonal Size	35.6 cm (14.0 in)



Specification	Description
Surface Treatment	Anti-glare
Contrast Ratio	300:1 (min)
Refresh Rate	60 Hz
Brightness	250 nit (typical)
Pixel Resolution	<ul style="list-style-type: none"> • Format 1600 x 900 (HD+) • Configuration RGB Stripe
Interface	eDP 1.2 (1 lane)
LCD Mode	TN
PPI	131 ppi
Viewing Angle	SVA 40/40/15/30 (Left/Right/Down/Up)

14" diagonal LED-backlit FHD UWVA IPS eDP anti-glare + PSR (1920 x 1080)

Specification	Description
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Specification	Description
Outline Dimensions (W x H x D)	32.09 x 20.56 x 0.3 cm (12.6 x 8.09 x 0.12 in)
Active Area	30.93 x 17.4 cm (12.18 x 6.85 in)
Weight	340 g (0.75 lb) (max)
Diagonal Size	35.6 cm (14.0 in)
Surface Treatment	Anti-glare
Contrast Ratio	600:1 (min)
Refresh Rate	60 Hz
Brightness	300 nit (typical)
Pixel Resolution	<ul style="list-style-type: none">• Format 1920 x 1080 (FHD)• Configuration RGB Stripe
Interface	eDP 1.3+PSR (2 lane)
LCD Mode	IPS/FFS/AHVA

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Specification	Description
PPI	157 ppi
Viewing Angle	UWVA 85/85/85/85 (Left/Right/Down/Up)

14" diagonal LED-backlit FHD UWVA IPS eDP anti-glare + PSR + touch (1920 x 1080)

Specification	Description
Outline Dimensions (W x H x D)	32.09 x 20.56 x 0.3 cm (12.6 x 8.09 x 0.12 in)
Active Area	30.93 x 17.4 cm (12.18 x 6.85 in)
Weight	340 g (0.75 lb) (max)
Diagonal Size	35.6 cm (14.0 in)
Touch enabled	Yes
TSP Type	Capacitive
Touch point supported	Min 5-point & Max 10-point for Windows 8
Surface Treatment	Anti-glare



Specification	Description
Contrast Ratio	600:1 (min)
Refresh Rate	60 Hz
Brightness	300 nit (typical)
Pixel Resolution	<ul style="list-style-type: none"> • Format 1920 x 1080 (FHD) • Configuration RGB Stripe
Interface	eDP 1.3+PSR (2 lane)
LCD Mode	IPS/FFS/VA
PPI	157 ppi
Viewing Angle	UWVA 85/85/85/85 (Left/Right/Down/Up)

Storage and drives

500 GB 5400 rpm SATA FIPS* Hard Drive

Specification	Description
Drive weight	95 g (0.25 lb)



Specification	Description
Capacity	500 GB
Height	7 mm (0.28 in)
Width	70 mm (2.75 in)
Interface	ATA-8, SATA 3.0
Transfer rate (synchronous maximum):	600 MB/s (Drive Capability)
Seek time (typical reads, including settling)	<ul style="list-style-type: none"> • Single Track: 1.5 ms • Average: 12 ms • Maximum: 22 ms
Cache	16 MB
Rotational speeds	5400 rpm
Logical Blocks	976,773,168
Operating Temperature	0° to 60° C (32° to 140° F) [ambient temp]
Features	ATA Security, TCG Opal SSC 2.0 and FIPS 140-2-level2

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help?

Specification	Description
<p>NOTE: *FIPS-certified, hardware-based AES-256 encryption image.</p>	

1 TB 7200 rpm SATA Hard Drive

Specification	Description
Drive weight	115 g (0.25 lbs)
Capacity	1 TB
Height	9.5 mm (0.37 in)
Width	69.85 mm (2.75 in)
Interface	ATA-8, SATA 3.0
Rotational speed	7200 rpm
Logical blocks	1,953,525,168
Operating temperature [case temp]	0° to 60° C (32° to 140° F) (ambient temp)
Features	ATA Security; S.M.A.R.T., NCQ, Ultra DMA



Specification	Description
Transfer rate (synchronous maximum):	600 MB/s (Drive Capability)
Seek time (typical reads, including settling)	<ul style="list-style-type: none"> • Single Track:: 2 ms • Average: 13 ms • Maximum: 15 ms

500 GB 7200 rpm SATA Hard Drive

Specification	Description
Drive weight	92 - 95g (0.20 - 0.21lbs)
Capacity	500 GB
Height	7/9.7 mm (0.28/0.38 in)
Width	69.85 mm (2.75 in)
Interface	ATA-8, SATA 3.0
Rotational speed	7200 rpm
Logical blocks	976,773,168
Operating temperature [case temp]	0° to 60° C (32° to 140° F) [top cover temp]



Specification	Description
Features	ATA Security; S.M.A.R.T., NCQ, Ultra DMA
Transfer rate (synchronous maximum):	600 MB/s (Drive Capability)
Seek time (typical reads, including settling)	<ul style="list-style-type: none"> • Single Track:: 1.5 ms ~ 2 ms • Average: 12 ms ~ 13 ms • Maximum: 18 ms ~ 22 ms

500 GB 7200 rpm SMART SATA 3 Self Encrypting Drive

Specification	Description
Drive weight	95 g (0.21 lbs)
Capacity	500 GB
Height	7/9.5 mm (0.28/0.37 in)
Width	69.85 mm (2.75 in)
Interface	ATA-8, SATA 3.0
Rotational speed	7200 rpm



Specification	Description
Logical blocks	976,773,168
Operating temperature [case temp]	0° to 60° C (32° to 140° F) [top cover temp]
Features	ATA Security; TCG OPAL v1.00
Transfer rate (synchronous maximum):	300 MB/s (Drive Capability)
Seek time (typical reads, including settling)	<ul style="list-style-type: none"> • Single Track:: 2 ms • Average: 13 ms • Maximum: 18 ms
Cache	32 MB

SATA 6 Gb/s 512 GB, 2.5-inch Solid State Drive

Specification	Description
Drive weight	78 g (0.17 lbs)
Capacity	512 GB
Height	7 mm (0.28 in)
Width	69.85 mm (2.75 in)



Specification	Description
Interface	ATA-8, SATA 3.0
Logical blocks	1,000,215,216
Operating temperature	0° to 70° C (32° to 158° F) [ambient temp]
Features	ATA Security; DIPM; TRIM; DEVSLP
Performance	<ul style="list-style-type: none"> • Maximum Sequential Read: 505 MB/s • Maximum Sequential Write: 470 MB/s

SATA 6 Gb/s 256 GB, 2.5-inch SATA Solid State Drive

Specification	Description
Drive weight	78 g (0.17 lbs)
Capacity	256 GB
Height	7 mm (0.28 in)
Width	69.85 mm (2.75 in)



Specification	Description
Interface	ATA-8, SATA 3.0
Performance	<ul style="list-style-type: none"> • Maximum Sequential Read: Up to 460 MB/s • Maximum Sequential Write: Up to 260 MB/s
Logical blocks	500,118,192
Operating temperature	0° to 70° C (32° to 158° F) [ambient temp]
Features	ATA Security; DIPM; TRIM

SATA 6 Gb/s 256 GB, 2.5-inch SATA SED Solid State Drive

Specification	Description
Drive weight	78 g (0.17 lbs)
Capacity	256 GB
Height	7 mm (0.28 in)
Width	69.85 mm (2.75 in)
Interface	ATA-8, SATA 3.0



Specification	Description
Performance	<ul style="list-style-type: none"> • Maximum Sequential Read: Up to 550 MB/s • Maximum Sequential Write: Up to 500 MB/s
Logical blocks	500,118,192
Operating temperature	0° to 70° C (32° to 158° F) [ambient temp]
Features	ATA Security; DIPM; TRIM

SATA 6 Gb/s 240 GB, 2.5-inch Solid State Drive

Specification	Description
Drive weight	78 g (0.17 lbs)
Capacity	240 GB
Height	7 mm (0.28 in)
Width	69.85 mm (2.75 in)
Interface	ATA-8, SATA 3.0



Specification	Description
Performance	<ul style="list-style-type: none"> • Maximum Sequential Read: Up to 540 MB/s • Maximum Sequential Write: Up to 490 MB/s
Logical blocks	468,862,128
Operating temperature	0° to 70° C (32° to 158° F) [ambient temp]
Features	ATA Security; DIPM; TRIM; DEVSLP

SATA 6 Gb/s 180 GB, 2.5-inch Solid State Drive

Specification	Description
Drive weight	78 g (0.17 lbs)
Capacity	180 GB
Height	7 mm (0.28 in)
Width	69.85 mm (2.75 in)
Interface	ATA-8, SATA 3.0

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Specification	Description
Performance	<ul style="list-style-type: none"> • Maximum Sequential Read: Up to 540 MB/s • Maximum Sequential Write: Up to 490 MB/s
Logical blocks	351,651,888
Operating temperature	0° to 70° C (32° to 158° F) [ambient temp]
Features	ATA Security; DIPM; TRIM; DEVSLP

SATA 6 Gb/s 128 GB, 2.5-inch Solid State Drive

Specification	Description
Drive weight	78 g (0.17 lbs)
Capacity	128 GB
Height	7 mm (0.28 in)
Width	69.85 mm (2.75 in)
Interface	ATA-8, SATA 3.0

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help?

Specification	Description
Performance	<ul style="list-style-type: none"> • Maximum Sequential Read: Up to 550 MB/s • Maximum Sequential Write: Up to 350 MB/s
Logical blocks	250,069,680
Operating temperature	0° to 70° C (32° to 158° F) [case temp]
Features	ATA Security; DIPM; TRIM; DEVSLP

Z Turbo Drive 256 GB, M.2 PCIe Solid State Drive

Specification	Description
Drive weight	10 g (0.02 lbs)
Capacity	256 GB
Height	61 mm (0.24 in)
Width	22.1 mm (0.87 in)
Interface	ATA-8, PCIe 2.0

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help?



Specification	Description
Performance	<ul style="list-style-type: none"> • Maximum Sequential Read: 730 MB/s • Maximum Sequential Write: 620 MB/s
Logical blocks	500,118,192
Operating temperature	0° to 70° C (32° to 158° F) [case temp]
Features	ATA Security; DIPM; TRIM; DEVSLP
<p>NOTE: *For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB (for Windows 7) of system and up to 30 GB (for Windows 8) disk is reserved for system recovery software.</p>	

Security

HP Fingerprint Sensor

Voltage	3.0-3.6V
Operating temperature	-10° - 75°C (14° - 167°F)
Current consumption image	36mA
Low latency wait for finger	950 uA



Capture rate	3000 lines/sec
ESD Resistance	IEC 6100-4-2 4B (+/-15KV)
Detection Matrix	200*1 (plus another secondary line); 508 dpi, sensor area 12*3 mm

Audio/multimedia - DTS Sound+

Hardware

Specification	Description
Implementation	IDT 92HD91
Function Key Volume controls	Volume up, volume down, and mute
Full duplex	Yes
Microphone in	Stereo
Headphone/Line out	Stereo
Integrated microphone	Yes, dual digital microphone array when equipped with optional webcam

Audio output quality

Specification	Description
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Specification	Description
Frequency response	20 Hz - 20 kHz
Signal to noise ratio	>85 dB
Total harmonic distortion	0.01%
Noise floor	-110 dB
Play/Record sampling rate(s)	8 kHz - 48kHz
DAC	16, 20 or 24-bit
ADC	16 or 20-bit

Integrated Stereo Speakers

Specification	Description
Power rating	2 W
Impedance	4 Ohms

Power

HP 65W Smart AC Adapter



Specifications	
Dimensions	10.6 x 4.7 x 2.8 cm (4.17 x 1.85 x 1.1 in)
Weight	280 g (0.62 lb)
Input	<p>100 to 240 VAC</p> <ul style="list-style-type: none"> • Input Efficiency: 87% min at 115/230 VAC • Input frequency range: 47 to 63 Hz • Input AC current: 1.7 A at 90 VAC, 0.85 A at 180 VAC
Output power	<ul style="list-style-type: none"> • Output power: 65 W • DC output: 18.5 V • Hold-up time: 5 msec at 115 VAC input • Output current limit: <11A, Over voltage protection- 29V max automatic shutdown
Connector	3 pin/grounded, mates with interchangeable cords
Environmental Design	<ul style="list-style-type: none"> • Temperature <ul style="list-style-type: none"> • Operating: 0° to 40° C (32° to 104° F) • Non-operating (storage): -20° to 65° C (-4° to 149° F) • Altitude: 0 to 3,048 m (0 to 10,000 ft) • Humidity: 20% to 80% • Storage Humidity: 10% to 90%
EMI and safety certifications	CE Mark- full compliance with LVD and EMC directives; Worldwide safety standards- IEC950, EN60950, UL1950, Class 1, SELV; Agency approvals- C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCIB, NOM-1 NYCE; MTBF- over 200,000 hours at 25°C ambient condition.

3-cell HP Long Life (50Whr) Lithium-Ion Polymer



Specifications	Description
Dimensions (H x W x L)	19.89x10.28x0.84 cm (7.8 x 4.01 x 0.3 in)
Weight	280 g
Cells/Type	3-cell Lithium-Ion Polymer
Energy	<ul style="list-style-type: none"> • Voltage: 11.1 • Amp-hour capacity: 4.504Ah • Watt-hour capacity: 50Wh
Temperature	<ul style="list-style-type: none"> • Operating (charging): 0° to 45° C (32° to 113° F) • Operating (discharging): -10° to 60° C (14° to 140° F) • Non-operating: -20° to 60° C (-4° to 140° F)
Battery Re-Charge Time	<ul style="list-style-type: none"> • System in OFF or Standby Mode: 3 hours
Fuel Gauge LED	No
Warranty	<p>1 year or 3 years*</p> <p>NOTE: *Battery warranty depends on the platform warranty.</p>
Optional Travel Battery Available	No

6-cell HP Long Life (60WHr) Lithium-Ion Polymer

Specifications	Description
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Specifications	Description
Dimensions (H x W x L)	32 x 21.85 x 1.51 cm (12.59 x 8.6 x 0.59 in)
Weight	603 g
Cells/Type	3-cell Lithium-Ion Polymer
Energy	<ul style="list-style-type: none"> • Voltage: 11.1 • Amp-hour capacity: 5.4 Ah • Watt-hour capacity: 60 Wh
Temperature	<ul style="list-style-type: none"> • Operating (Charging): 0° to 45° C (32° to 113° F) • Operating (Discharging): -10° to 50° C (14° to 140° F) • Non-operating: -20° to 60° C (-4° to 140° F)
Battery Re-Charge Time	<ul style="list-style-type: none"> • System in OFF or Standby Mode: 3 hours
Fuel Gauge LED	Yes
Warranty	<p>1 year or 3 years*</p> <p>NOTE: *Battery warranty depends on the platform warranty.</p>
Optional Travel Battery Available	Yes



Specifications	Description
Local Area Network (LAN)	Integrated Intel I218-LM Gigabit Network Connection (10/100/1000)*
Wireless	Support for a broad range of secure, integrated wireless LAN and wireless WAN options featuring support for the latest industry standards. Broadband Wireless (WWAN) requires a Windows operating system and is available in select countries as a standard, factory configurable feature only. Integrated Bluetooth is also available (factory configurable only) and can be combined with any of the supported wireless LAN and wireless WAN options.
WLAN** (Wireless LAN Options)	<ul style="list-style-type: none"> ● Intel Dual Band Wireless-AN 7265 802.11a/b/g/n (2x2) + Bluetooth 4.0 Combo Adapter ● Intel Dual Band Wireless-AC 7265 802.11a/b/g/n (2x2) Wi-Fi + Bluetooth 4.0 Combo Adapter ● Intel Dual Band Wireless-AC 3160 802.11ac (1x1) Wi-Fi + Bluetooth 4.0 Combo Adapter
WWAN *** (Mobile Broadband) options	<ul style="list-style-type: none"> ● HP hs3110 HSPA+ Intel Mobile Broadband Module ● HP lt4112 LTE/HSPA+ Gobi 4G Mobile Broadband Module ● HP lt4211 LTE/EV-DO/HSPA+ Gobi 4G Mobile Broadband Module
Intel Wireless Display (WiDi)****	Intel WiDi technology enables users to stream content wirelessly from a compatible computer to a projector, TV or monitor.

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Specifications	Description
	<p>NOTE: *The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required. **Wireless access point and Internet service is required and is not included. Availability of public wireless access points limited. ***WWAN is an optional feature and WWAN connection requires wireless data service contract, network support, and is not available in all areas. Contact your service provider to determine the coverage area and availability. Connection speeds will vary based on location, environment, network conditions and other factors. 4G LTE not available on all products, in all regions and only available on products featuring Intel processors. ****Integrated Intel Wi-Di feature is available on select configurations only and requires separately purchased projector, TV or monitor with an integrated or external Wi-Di receiver. For more information on Intel Wi-Di Display visit www.intel.com/go/wirelessdisplay .</p>

Physical specifications

Specification	Description
Dimensions (H x W x D)	21 x 339 x 237 mm (0.83 x 13.35 x 9.33 in)
Weight	<ul style="list-style-type: none"> • Weight – w/Touch Starting at 1.71 kg (4.21 lb) With 3cell 50Whr battery, without hard drive and with 256 GB Z Turbo Drive (PCIe SSD) and FHD touch panel • Weight – Non Touch Starting at 1.71 kg (3.77 lb) With 3cell 50Whr battery, without hard drive and with 256 GB Z Turbo Drive (PCIe SSD) and FHD non-touch panel <p>NOTE: Weight varies by configuration and components.</p>

Software/OS

Preinstalled Software with Windows Operating System



Feature	Description	
BIOS	<p>Windows 7</p> <ul style="list-style-type: none"> • HP BIOSphere¹ • HP Sure Start² • HP BIOS Protection³ • HP Disk Sanitizer External Edition⁴ • BIOS Update via Network • Master Boot Record Security • Power On Authentication • Pre-Boot Security • Secure Erase⁶ • Absolute Persistence Module⁷ 	<p>Windows 8.1</p> <ul style="list-style-type: none"> • HP BIOSphere¹ • HP Sure Start² • HP BIOS Protection³ • HP Disk Sanitizer External Edition⁴ • BIOS Update via Network • Master Boot Record Security • Power On Authentication • Pre-Boot Security • Secure Erase⁶ • Hybrid Boot • Measured Boot • Secure Boot • Absolute Persistence Module⁷
MultiMedia	<p>Windows 7</p> <ul style="list-style-type: none"> • CyberLink Power DVD, BD • CyberLink YouCam BE 	<p>Windows 8.1</p> <ul style="list-style-type: none"> • CyberLink Power DVD, BD
Communication	<p>Windows 7</p> <ul style="list-style-type: none"> • HP GPS and Location⁸ • HP Connection Manager⁹ • Intel® Wireless Display (WiDi) Software for Windows¹¹ 	<p>Windows 8.1</p> <ul style="list-style-type: none"> • HP Mobile Connect • HP Wireless Hotspot¹⁰ • Intel® Wireless Display (WiDi) Software for Windows¹¹ • HP Roaming Alert • Native Miracast Support¹²



Feature	Description	
HP Value Add	<p>Windows 7</p> <ul style="list-style-type: none"> • HP 3D DriveGuard • HP ePrint Driver¹³ • HP Hotkey • HP PageLift¹⁴ • HP Support Assistant • HP Recovery Manager • HP Recovery Disk Creator 	<p>Windows 8.1</p> <ul style="list-style-type: none"> • HP 3D DriveGuard • HP ePrint Driver¹³ • HP Hotkey • HP PageLift¹⁴ • HP Support Assistant • HP Registration App
3 rd Party	<p>Windows 7</p> <ul style="list-style-type: none"> • Foxit PhantomPDF Express for HP 	<p>Windows 8.1</p> <ul style="list-style-type: none"> • Foxit PhantomPDF Express for HP
Microsoft Products	<p>Windows 7</p> <ul style="list-style-type: none"> • Buy Office • Bing Search 	<p>Windows 8.1</p> <ul style="list-style-type: none"> • Buy Office • Bing Search
Manageability	<p>Windows 7</p> <ul style="list-style-type: none"> • HP Driver Packs¹⁵ • HP SoftPaq Download Manager (SDM) • HP System Software Manager (SSM)¹⁵ • HP BIOS Config Utility (BCU)¹⁵ • HP Client Catalog¹⁵ • HP CIK for Microsoft SCCM¹⁵ • LANDESK Management¹⁵ 	<p>Windows 8.1</p> <ul style="list-style-type: none"> • HP Driver Packs¹⁵ • HP SoftPaq Download Manager (SDM) • HP System Software Manager (SSM)¹⁵ • HP BIOS Config Utility (BCU)¹⁵ • HP Client Catalog¹⁵ • HP CIK for Microsoft SCCM¹⁵ • LANDESK Management¹⁵
	<p>NOTE: For more information on HP Client Management Solutions refer to: http://www.hp.com/go/clientmanagement.</p>	



Feature	Description	
Client Security	<p>Windows 7</p> <ul style="list-style-type: none"> • HP Device Access Manager 	<p>Windows 8.1</p> <ul style="list-style-type: none"> • HP Device Access Manager
Software	<p>Windows 7</p> <ul style="list-style-type: none"> • HP Drive Encryption¹⁷ • HP File Sanitizer¹⁸ • HP Security Manager • HP SpareKey • Microsoft Security Essentials¹⁹ 	<p>Windows 8.1</p> <ul style="list-style-type: none"> • HP Drive Encryption¹⁷ • HP File Sanitizer¹⁸ • HP Security Manager • HP SpareKey • Microsoft Defender
Standard	<p>Windows 7</p> <ul style="list-style-type: none"> • TPM 1.2 • Integrated Smart Card Reader • Pre-boot Authentication 	<p>Windows 8.1</p> <ul style="list-style-type: none"> • TPM 1.2 • Integrated Smart Card Reader • Pre-boot Authentication

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Feature	Description
	<p>NOTE: The Absolute Persistence agent is shipped turned off, and must be activated by customers when they purchase a subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. For more information on HP Client Security Software Suite, refer to http://www.hp.com/go/clientsecurity. 1 Available only on business PCs with HP BIOS. 2 HP Sure Start is the first and only self-healing technology solution created to protect against malware and virus attacks aimed at the BIOS. 3 May require a manual recovery step if all copies of BIOS are compromised or deleted. 4 For the use cases outlined in the DOD 5220.22-M Supplement. Only supports traditional Hard Drives. 5 Requires initial user set up. 6 For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88. 7 Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software. 8 GPS access requires an unobstructed path to multiple satellites. Performance may be affected if/when used inside of buildings, bridges or heavily congested metropolitan areas. Requires separately purchased GPS navigation software available from multiple GPS applications. 9 HP Mobile Connect is only available on preconfigured devices with WWAN. 10 The wireless hotspot application requires an active internet connection that is shared with the connecting devices. Wireless hotspot data usage may incur additional charges. Check with your service provider for plan details. 11 Integrated Intel® Wi-Di Display is available on select configurations only and requires a separate projector, TV or monitor with an integrated or external Wi-Di receiver. For more information on Intel® Wi-Di Display visit www.intel.com/go/wirelessdisplay. 12 Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming media players that also support Miracast. You can use Miracast to share what you're doing on your PC and present a slide show. 13 Requires an Internet connection to HP web-enabled printer and HP ePrint account registration. 14 Requires Windows 7 or higher. 15 Subscription required. 16 Requires Windows. Data is protected prior to Drive Encryption login. Turning the PC off or into hibernate logs out of Drive Encryption and prevents data access. 17 For the use cases outlined in the DOD 5220.22-M Supplement. Supports standard Hard Drives. Initial setup required. 18 Opt in and internet connection required for updates.</p>

Environmental specifications

Specification	Description



Specification	Description
Temperature	<p>Operating:</p> <ul style="list-style-type: none"> • Not writing optical <p>0° to 35° C (32° to 95° F)</p> <ul style="list-style-type: none"> • Writing optical <p>5° to 35° C (41° to 95° F)</p> <p>Non-operating:</p> <ul style="list-style-type: none"> • -20° to 60° C (-4° to 140° F)
Relative humidity	<ul style="list-style-type: none"> • Operating: 10% to 90%, non-condensing • Non-operating: 5% to 95%, 38.7° C (101.6° F) maximum wet bulb temperature
Shock	<ul style="list-style-type: none"> • Operating: 40 G, 2 ms, half-sine • Non-operating: 200 G, 2 ms, half-sine
Random vibration	<ul style="list-style-type: none"> • Operating: 0.75 grms • Non-operating: 1.50 grms
Altitude (unpressurized)	<ul style="list-style-type: none"> • Operating: -15.24 to 3,048 m (-50 to 10,000 ft) • Non-operating: -15.24 to 12,192 m (-50 to 40,000 ft)



Specification	Description
Planned Industry Standard Certifications	<ul style="list-style-type: none"> • UL: Yes • CSA: Yes • FCC Compliance: Yes • ENERGY STAR: Select models* • EPEAT: Gold target** • ICES: Yes • Australia / NZ A-Tick Compliance: Yes • CCC: Yes • Japan VCCI Compliance: Yes • KCC: Yes • BSMI: Yes • CE Marking Compliance: Yes

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NOTE: *Configurations of the HP ZBook 14 that are ENERGY STAR qualified are identified as HP ZBook 14 ENERGY STAR on HP websites and on ENERGY STAR website. **EPEAT registration varies by country. EPEAT status listed above applies to U.S. For accessibility information on HP products, please visit: <http://www.hp.com/accessibility>.

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