HP ZBook 15 G6 Mobile Workstation (6TV31EA)

HP's best-selling ZBook

Our powerhouse ZBook thrives with heavy workloads from rendering to engineering to simulation. With room to grow, it's the only machine you'll ever need.



HP recommends Windows 10 Pro for business Full-throttle performance

Get blazing-fast performance with the heaviest multi-app workloads. Boost your speed on single and multi-threaded apps with the high-performance multi-core Intel processor. Through it all, our cutting-edge thermal design keeps everything cool and guiet.

Ready to expand. No tools required.

When your technology needs evolve, you can easily upgrade. Simply remove the back panel and switch out your memory or storage in seconds.

Industry-leading security

Advanced security features come standard on every ZBook 15. System safeguards like HP Client Security Suite and HP Sure Start - the industry's first self-healing BIOS - mean your device is locked down tight, so your data and identity are too.

Featuring

Windows 10 Pro 64

Work without compromising on performance or security with Windows 10 Pro, powered by HP's collaboration and connectivity technology.

Intel® Core™ i7 processor

Run several CPU-heavy programs simultaneously without sacrificing performance with an Intel® Core™ i7 processor. [3]

15.6" Diagonal FHD Display At 250 Nits

Get clear and sharp visuals in full high definition. Comfortably work without reflections on an anti-glare screen.

HP Z Turbo Drive High-speed Storage

Work without limits in any location with local PCIe storage that's up to 6x faster than SATA SSD, and up to 21x faster than traditional HDD storage. [4]

Military Standard Testing

Our ZBooks are designed for rigorous military standard testing including drop, shock and harsh environments. Now you can take your work on the road with confidence knowing your laptop was built for durability. [5]

Specifications

Operating system	Windows 10 Pro 64
Processor family	9th Generation Intel® Core™ i7 processor
Processor	Intel® Core™ i7-9850H with Intel® UHD Graphics 630 (2.6 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores)
Memory	32 GB DDR4-2666 SDRAM (2 x 16 GB)
Memory Slots	4 SODIMM
Internal Storage	1 TB PCIe® NVMe™ SSD
Optical drive	Not included
Graphics	Discrete
Graphics (discrete)	NVIDIA® Quadro RTX™ 3000 (6 GB GDDR6 dedicated)
Graphics	Integrated
Graphics (integrated)	Intel® UHD Graphics 630
Display	39.6 cm (15.6") diagonal FHD IPS anti-glare WLED-backlit, 250 nits, 45% NTSC (1920 x 1080)
Display	15.6" diagonal FHD IPS anti-glare WLED-backlit, 250 nits, 45% NTSC (1920 x 1080) ^[19,20,21,23]
Display size (diagonal)	39.6 cm (15.6")
Display size (diagonal)	15.6"
Audio features	Audio by Bang & Olufsen, dual stereo speakers, HP World Facing Microphone dual array digital microphone, functions keys for volume up and down, combo microphone/headphone jack, HD audio
Minimum dimensions (W x D x H)	37.6 x 26.4 x 2.6 cm
Minimum dimensions (W x D x H)	14.8 x 10.4 x 1 in
Weight	Starting at 2.6 kg (Weight varies by configuration and components.)
	Starting at 5.7 lb
Weight	(Weight varies by configuration and components.)
Weight Keyboard	<u> </u>
	(Weight varies by configuration and components.)
Keyboard	(Weight varies by configuration and components.) HP Dual Point backlit spill-resistant Collaboration Keyboard
Keyboard Pointing device	(Weight varies by configuration and components.) HP Dual Point backlit spill-resistant Collaboration Keyboard Touchpad with multi-touch gesture support
Keyboard Pointing device Camera	(Weight varies by configuration and components.) HP Dual Point backlit spill-resistant Collaboration Keyboard Touchpad with multi-touch gesture support 1080p FHD webcam with IR
Keyboard Pointing device Camera Ports	(Weight varies by configuration and components.) HP Dual Point backlit spill-resistant Collaboration Keyboard Touchpad with multi-touch gesture support 1080p FHD webcam with IR 1 RJ-45; 1 USB 3.1 Gen 1; 1 USB 3.1 Gen 1 (charging)
Keyboard Pointing device Camera Ports Expansion slots	(Weight varies by configuration and components.) HP Dual Point backlit spill-resistant Collaboration Keyboard Touchpad with multi-touch gesture support 1080p FHD webcam with IR 1 RJ-45; 1 USB 3.1 Gen 1; 1 USB 3.1 Gen 1 (charging) 1 smart card reader; 1 SD media card reader 1 power connector; 1 USB 3.1 Gen 1; 1 HDMI 2.0b; 1 headphone/microphone combo; 2 USB Type-C™ (Thunderbolt™
Keyboard Pointing device Camera Ports Expansion slots Ports	(Weight varies by configuration and components.) HP Dual Point backlit spill-resistant Collaboration Keyboard Touchpad with multi-touch gesture support 1080p FHD webcam with IR 1 RJ-45; 1 USB 3.1 Gen 1; 1 USB 3.1 Gen 1 (charging) 1 smart card reader; 1 SD media card reader 1 power connector; 1 USB 3.1 Gen 1; 1 HDMI 2.0b; 1 headphone/microphone combo; 2 USB Type-C™ (Thunderbolt™ 3, pass through support DispalyPort™ 1.4, USB 3.1 Gen 2, with BC 1.2)
Keyboard Pointing device Camera Ports Expansion slots Ports Network interface type	(Weight varies by configuration and components.) HP Dual Point backlit spill-resistant Collaboration Keyboard Touchpad with multi-touch gesture support 1080p FHD webcam with IR 1 RJ-45; 1 USB 3.1 Gen 1; 1 USB 3.1 Gen 1 (charging) 1 smart card reader; 1 SD media card reader 1 power connector; 1 USB 3.1 Gen 1; 1 HDMI 2.0b; 1 headphone/microphone combo; 2 USB Type-C™ (Thunderbolt™ 3, pass through support DispalyPort™ 1.4, USB 3.1 Gen 2, with BC 1.2) WLAN
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Keyboard Pointing device Camera Ports Expansion slots Ports Network interface type Network interface Power	(Weight varies by configuration and components.) HP Dual Point backlit spill-resistant Collaboration Keyboard Touchpad with multi-touch gesture support 1080p FHD webcam with IR 1 RJ-45; 1 USB 3.1 Gen 1; 1 USB 3.1 Gen 1 (charging) 1 smart card reader; 1 SD media card reader 1 power connector; 1 USB 3.1 Gen 1; 1 HDMI 2.0b; 1 headphone/microphone combo; 2 USB Type-C™ (Thunderbolt™ 3, pass through support DispalyPort™ 1.4, USB 3.1 Gen 2, with BC 1.2) WLAN Intel® Dual Band Wi-Fi 6 AX200 (2x2) and Bluetooth® 5 combo, vPro™ 150 W Slim Smart external AC power adapter
Keyboard Pointing device Camera Ports Expansion slots Ports Network interface type Network interface Power Battery type	(Weight varies by configuration and components.) HP Dual Point backlit spill-resistant Collaboration Keyboard Touchpad with multi-touch gesture support 1080p FHD webcam with IR 1 RJ-45; 1 USB 3.1 Gen 1; 1 USB 3.1 Gen 1 (charging) 1 smart card reader; 1 SD media card reader 1 power connector; 1 USB 3.1 Gen 1; 1 HDMI 2.0b; 1 headphone/microphone combo; 2 USB Type-C™ (Thunderbolt™ 3, pass through support DispalyPort™ 1.4, USB 3.1 Gen 2, with BC 1.2) WLAN Intel® Dual Band Wi-Fi 6 AX200 (2x2) and Bluetooth® 5 combo, vPro™ 150 W Slim Smart external AC power adapter HP Long Life 4-cell, 90 Wh Li-ion polymer
Keyboard Pointing device Camera Ports Expansion slots Ports Network interface type Network interface Power Battery type Energy efficiency	(Weight varies by configuration and components.) HP Dual Point backlit spill-resistant Collaboration Keyboard Touchpad with multi-touch gesture support 1080p FHD webcam with IR 1 RJ-45; 1 USB 3.1 Gen 1; 1 USB 3.1 Gen 1 (charging) 1 smart card reader; 1 SD media card reader 1 power connector; 1 USB 3.1 Gen 1; 1 HDMI 2.0b; 1 headphone/microphone combo; 2 USB Type-C™ (Thunderbolt™ 3, pass through support DispalyPort™ 1.4, USB 3.1 Gen 2, with BC 1.2) WLAN Intel® Dual Band Wi-Fi 6 AX200 (2x2) and Bluetooth® 5 combo, vPro™ 150 W Slim Smart external AC power adapter HP Long Life 4-cell, 90 Wh Li-ion polymer ENERGY STAR® certified

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Accessories and services

No Recommended Accessories and Services

Messaging Footnotes

- [3] Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher nerformance
- [4] For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30GB (for Windows 10) of system disk is reserved for system recovery software.
- [5] Testing is not intended to demonstrate fitness of U.S. Department of Defense (DoD) contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.

Technical Specifications Footnotes

- [19] HP Sure View is optional and must be configured at purchase.
- [20] HP Sure View available on 2nd half of 2019.
- [21] UHD content required to view UHD images.
- [22] HP BIOSphere Requires Intel® 8th generation processors. HP Sure Start Gen5 Available on HP Elite and HP Z Workstation products equipped with Intel® 8th generation processors.
- [23] Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- [24] HP Client Security Manager Gen5 requires Windows and is available on select HP Pro, Elite and Z PCs. See product specifications for details.
- [30] HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement
- [31] 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. For full details visit: http://www.absolute.com/company/legal/agreements/computrace-agreement. 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.
- [33] Microsoft Defender Opt in and internet connection required for updates.
- [34] Security lock slot is Lock sold separately.
- [38] HP Sure Start Gen5 is available on select HP PCs with Intel processors. See product specifications for availability.
- [39] HP Sure Sense requires Windows 10. See product specifications for availability.
- [47] Secure Erase For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.

Learn more at

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