HP ZBook 15 G5 Mobile Workstation

HP's best-selling mobile workstation

Get extraordinary performance with industry-leading security packed into a mobile workstation designed to thrive with heavy workloads. You'll have everything you need for rendering, engineering and simulation workflows in a portable device.

HP recommends Windows 10 Pro.

Mobile powerhouse

Get unthrottled performance even with the heaviest multi-application workloads. The HP ZBook 15 has 30% better thermal performance gen over gen to ensure it's quiet and cool with the CPU and GPU running at max performance for long periods of time.

Remarkable expandability, no tools required

With up to four million different configurations[1], the HP ZBook 15 can be customized to meet the demands of every engineer and designer. And when your technology needs to evolve, you can upgrade storage or memory in seconds without tools.

HP's most secure mobile workstation

Protect your work with industry-leading security features. A touch of a button activates HP Sure View[2] privacy screen to protect against visual hacking and RAID 1[3] maintains a backup copy of all your files in case you ever need it.

Featuring

- Be productive in any situation. Windows 10 Pro and powerful security, collaboration, and connectivity features from HP help you power through your day on the HP ZBook 15.[4]
- Speed up your workflow with up to 128 GB RAM for fast performance with rendering, editing and visual effects.[5]
- Do more at once with next-gen 6-core Intel® processors designed to handle complex, multi-threaded apps like Adobe Premier Pro and fast core clock and boost with Autodesk 3ds Max.[6]
- Render photorealistic images and designs quickly with certified NVIDIA® Quadro® P2000 graphics - optimized for stability and peak performance with professional software apps.[7]
- Work with confidence knowing your laptop is certified with leading software applications like Adobe Premier Pro, Revit, SolidWorks and AutoCAD to ensure peak performance even with complex projects.[8]
- Bring your projects to life with one billion colors on the stunning 600 nits, 4K UHD HP DreamColor display. Maintain color accuracy with a built color calibration system.[9]
- Increase productivity with up to 6 TB storage and 3 drives. Get 4 TB local NVMe storage - up to 21x faster than standard HDD and 6x faster than SATA SSD.[10]
- Confidently take your work anywhere knowing your HP ZBook 15 was built for 24x7x365 workloads and passed 14 rigorous military standard tests like shock, drop and dust.[11]
- Experience fast transfer and upload speeds with dual Thunderbolt™ 3 ports. Keep all your devices connected with USB 3.0, HDMI, SD card, Smart Card Reader and Thunderbolt™ 3 ports.
- Host virtual meetings efficiently with the HP Collaboration Keyboard, WWAN LTE and an HP World-Facing Microphone. Experience premium audio with speakers tuned by Bang & Olufsen.[12]
- Innovative docking solution that takes you from laptop to desktop experience. Connect dual 4K displays, charge your devices, take a conference call, and transfer data quickly.[13]
- Accidents happen - which is why we designed our minor spill-resistant full-sized chiclet keyboard with a drain hole so liquid comes out the bottom for easy cleanup.

HP ZBook 15 G5 Mobile Workstation Specifications Table

Available Operating Systems	Windows 10 Pro 64 – HP recommends Windows 10 Pro.[1] Windows 10 Home 64[1] Windows 10 Pro for Workstations 64[1] FreeDOS 2.0 Red Hat® Enterprise Linux® 7 - Web support only[33] Ubuntu 16.04.3 LTS - Web support only[33]
Processor family[2,3,4,31,32,35]	Intel® Xeon® processor (E-2176M, E- 2186M); 8th Generation Intel® Core™ i9 processor (i9-8950HK); 8th Generation Intel® Core™ i7+ processor (Core™ i7 and Intel® Optane™ memory) (i7-8750H, i7-8850H); 8th Generation Intel® Core™ i7 processor (i7-8750H, i7-8850H); 8th Generation Intel® Core™ i5+ processor (Core™ i5 and Intel® Optane™ memory) (i5-8300H, i5-8400H); 8th Generation Intel® Core™ i5 processor (i5-8300H, i5-8400H)
Available Processors[2,3,4,31,32,35]	Intel® Xeon® E 2186M vPro™ with Intel® UHD Graphics P630 (2.9 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores) Intel® Xeon® E 2176M vPro™ with Intel® UHD Graphics P630 (2.7 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores) Intel® Core™ i9 8950HK with Intel® UHD Graphics 630 (2.9 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores) Intel® Core™ i7+ 8850H vPro™ (Core™ i7 and 16 GB Intel® Optane™ memory) with Intel® UHD Graphics 630 (2.6 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores) Intel® Core™ i7 8850H vPro™ with Intel® UHD Graphics 630 (2.6 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores) Intel® Core™ i7+ 8750H (Core™ i7 and 16 GB Intel® Optane™ memory) with Intel® UHD Graphics 630 (2.2 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores) Intel® Core™ i7-8750H with Intel® UHD Graphics 630 (2.2 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores) Intel® Core™ i5+ 8400H vPro™ (Core™ i5 and 16 GB Intel® Optane™ memory) with Intel® UHD Graphics 630 (2.5 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores) Intel® Core™ i5 8400H vPro™ with Intel® UHD Graphics 630 (2.5 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores) Intel® Core™ i5+ 8300H (Core™ i5 and 16 GB Intel® Optane™ memory) with Intel® UHD Graphics 630 (2.3 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores) Intel® Core™ i5-8300H with Intel® UHD Graphics 630 (2.3 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores)
Maximum memory	128 GB DDR4-2667 non-ECC SDRAM; 64 GB DDR4-2667 ECC SDRAM; 64 GB DDR4-2667 non-ECC SDRAM [5,36] Transfer rates up to 2400 MT/s.
Memory slots	4 SODIMM
Internal storage	up to 2 TB 5400 rpm SATA [6] 500 GB up to 1 TB 7200 rpm SATA [6] up to 500 GB 7200 rpm SATA SED [6] up to 500 GB 7200 rpm SATA FIPS 140-2 SED [6] 500 GB up to 2 TB 5400 rpm SATA SSHD [6] 256 GB up to 1 TB SATA SSD [6] up to 256 GB M.2 SATA SED SSD [6] up to 512 GB M.2 SATA FIPS 140-2 SED SSD [6] 256 GB up to 2 TB PCIe® NVMe™ M.2 SSD [6] 256 GB up to 512 GB PCIe® NVMe™ M.2 SED SSD [6] 2 x 1 TB up to 2 x 2 TB PCIe® NVMe™ M.2 SSD [6,36,37]
Display	15.6" diagonal FHD IPS eDP anti-glare LED-backlit, 220 cd/m² (1920 x 1080); 15.6" diagonal 4K IPS eDP + PSR anti-glare LED-backlit and ambient light sensor, 400 cd/m² (3840 x 2160); 15.6" diagonal 4K IPS eDP + PSR LED-backlit touch screen with Corning® Gorilla® Glass 4 and ambient light sensor, 400 cd/m² (3840 x 2160); 15.6" diagonal FHD IPS eDP + PSR anti-glare LED-backlit with ambient light sensor, 400 cd/m² (1920 x 1080); HP Sure View Integrated Privacy Screen 15.6" diagonal FHD eDP + PSR LED-backlit touch screen with Corning® Gorilla® Glass 4, 650 cd/m² (1920 x 1080); HP DreamColor 15.6" diagonal 4K IPS anti-glare LED-backlit, 600 cd/m², 100% AdobeRGB (3840 x 2160) [9,33]
Available Graphics[9,101111]	Integrated: Intel® UHD Graphics 630; Intel® UHD Graphics P630 Discrete: AMD Radeon™ Pro WX 4150 Graphics (4 GB GDDR5 dedicated); NVIDIA® Quadro® P1000 (4 GB GDDR5 dedicated); NVIDIA® Quadro® P2000 (4 GB GDDR5 dedicated) (Intel® UHD Graphics 630 integrated on Core™ i7, Core™ i5 and Core™ i9 processors. Intel® UHD Graphics P630 integrated on Xeon® processors.)
Audio	HP tuned Bang & Olufsen, dual stereo speakers, HP World Facing Microphone supporting HP Noise Reduction software, dual array digital microphone, functions keys for volume up and down, combo microphone/headphone jack, HD audio, HP Clear Sound Amp [13]
Keyboard	HP Collaboration Keyboard, full-size, spill-resistant, backlit, with drain and DuraKeys, clickpad with image sensor and glass surface, multi-touch gestures and taps enabled
Pointing device[38]	Image sensor touchpad with on/off button, two-way scroll, gestures, three buttons; Pointstick with three additional pointstick buttons; Touchpad with Color Calibration Sensor
Communications	LAN: Integrated Intel® I219-LM GbE ; WLAN: Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) Wi-Fi® and Bluetooth® 5.0 Combo; Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) Wi-Fi® and Bluetooth® 5.0 Combo, non-vPro™ [7]; WWAN: HP lt4132 LTE/HSPA+ 4G Mobile Broadband Module; Intel® XMM™ 7360 LTE Advanced [8,14] (Optional Near Field Communication (NFC) module)
Expansion slots	1 UHS-II SD card reader; 1 smart card reader (SD supports next generation secure digital and is backward compatible to SDHC, SDXC)
Ports and Connectors	Left side: 1 RJ-45; 1 USB 3.0; 1 USB 3.0 (charging) Right side: 1 HDMI 2.0; 1 headphone/microphone combo; 1 power connector; 1 USB 3.0; 2 USB 3.1 Type-C™ Thunderbolt™ 3 (DisplayPort™ 1.3)
Camera	HP Privacy HD Camera 720p; HP Privacy HD IR Camera 720p, face authentication with Windows Hello [9,12,14,30]
Available Software	Bing search for IE11; Buy Office; HP ePrint Driver + JetAdvantage; HP Hotkey Support; HP Noise Cancellation Software; HP Performance Advisor; HP Recovery Manager; HP Remote Graphics Software; HP Support Assistant; HP Velocity; Skype for Business Certified; HP LAN-WLAN Protection; HP JumpStart; HP Client Security Suite Gen4 [15,16,17,18]
Security management	Absolute persistence module; Common Criteria EAL4+ Augmented Certified Discrete TPM 2.0 Embedded Security Chip; DriveLock and Automatic DriveLock; HP Device Access Manager; HP FingerPrint Sensor; HP Password Manager; HP Power On Authentication; HP Security Manager; Pre-boot authentication; HP Sure Click; Measured Boot; HP BIOS Config Utility (BCU); HP Client Catalog; HP Driver Packs; HP System

HP ZBook 15 G5 Mobile Workstation Specifications Table

	Software Manager (SSM); HP Manageability Integration Kit Gen2; HP BIOSphere with Sure Start Gen4; HP Secure Disk Erase; HP Host Based Mac Address; Windows Defender[19,20,21,22,23,26,27,28,29]
Battery type	HP Long Life 4-cell, 90 Wh Li-ion polymer [26,34]
Dimensions	14.8 x 10.4 x 1 in; 37.6 x 26.4 x 2.6 cm
Weight	Starting at 5.79 lb; Starting at 2.6 kg (Weight varies by configuration and components.)
Environmental	Low halogen[25]
Energy efficiency compliance	ENERGY STAR® certified and EPEAT® registered configurations available[24]
Warranty	3 year or 1 year limited warranty options available, depending on country. Batteries have the same 1 year or 3 year limited warranty as the platform. 24/7 operation will not void the HP warranty. Optional HP Care Pack Services are extended service contracts which go beyond your standard limited warranties.

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Accessories and services (not included)

HP Thunderbolt Dock 230W G2		Reinvent docking and boost productivity with HP's most versatile Thunderbolt™ dock, the small, sophisticated HP Thunderbolt Dock G2. Designed for workspace flexibility and network manageability[1], it delivers USB-C™[2] device connectivity and optional integrated audio.[3]
HP Professional Slim Top Load Case		Designed for business pros who want a protective laptop case without the bulk, the HP Professional Slim Top Load Case delivers ample storage in a stylish, slim design. **Product number: H4J91AA**
HP Comfort Grip Wireless Mouse		The HP Comfort Grip Wireless Mouse features a 30-month battery life[1] and a bold, modern design that integrates seamlessly with HP Business Notebooks. **Product number: H2L63AA**
HP 200W Smart AC Adapter (4.5mm)		Conserve battery life, be more productive, and get uninterrupted power for your HP ZBook and select HP Docking Stations[1] with HP 200W Smart AC Adapter. **Product number: W2F75AA**
HP Z32 31.5-inch 4K UHD Display		Experience extraordinary, precise color and see more of your projects at one time on a display with stunning 4K[1] resolution. **Product number: 1AA81A8**
HP 3 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2 for Notebooks HP 3 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2 for Notebooks		When hardware issues come up, the sooner you can get running again, the better. Have expertise at the ready with HP Hardware Next Business Day Onsite Service with Accidental Damage Protection, and vastly improve your product uptime. With high-quality remote assistance or convenient onsite support available the next business day, help is there when you need it—so you can get back to work. Product number: UA6Z7E (for 1 year platforms), UB0E4E (for 3 year platforms)

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Messaging Footnotes

[1] Based on total components and configuration possibilities.
[2] HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and functions in landscape orientation.
[3] Raid 1 planned to be available in December 2018.
[4] Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com
[5] 128 GB RAM planned to be available in December 2018.
[6] Adobe Premier Pro and Autodesk 3ds Max software sold separately.
[7] NVIDIA® Quadro® P2000 graphics is a configurable option.
[8] Adobe Premier Pro, Revit, SolidWorks and AutoCAD software sold separately.
[9] DreamColor display required for 1 billion colors and is an optional or add-on feature.
[10] For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) of the system disk is reserved for system recovery software.
[11] MIL-STD-810G 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.
[12] WWAN module is optional, must be configured at the factory and requires a separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.
[13] ZBook dock with Thunderbolt™ and dual displays sold separately.

Technical Specifications Footnotes

[1] Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.
[2] 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 performance.
[3] In accordance with Microsoft's support policy, HP does not support the Windows® 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows®8 or Windows 7 drivers on http://www.support.hp.com
[4] vPro. Some functionality of this technology, such as Intel Active management technology and Intel Virtualization technology, requires additional 3rd party software in order to run. Availability of future "virtual appliances" applications for Intel vPro technology is dependent on 3rd party software providers. Compatibility future "virtual appliances" is yet to be determined.
[5] Intel® allows architectures designed with four DIMM slots to run at 2400 MT/s.
[6] For storage drives GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) is reserved for system recovery software.
[7] Wireless cards are optional or add-on features and requires separately purchased wireless access point and internet service. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ac WLAN devices.
[8] WWAN is an optional feature. WWAN use requires separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products, and in all regions.
[9] HD content required to view HD images.
[10] Intel® HD graphics 630 is configurable as a standalone graphics option; Intel® HD graphics P630 only used when NVIDIA® Optimus™ Technology is enabled.
[11] NVIDIA® Quadro® mobile professional graphics support up to four independent displays when using a HP ZBook Dock with Thunderbolt 3 (sold separately) or DP 1.2 hubs with MST.
[12] Privacy camera not available on touchscreen.
[13] Dual-microphone array when equipped with optional webcam and optional world facing microphone.
[14] Optional or add-on feature
[15] HP ePrint Driver requires an internet connection to HP web-enabled printer and HP ePrint account registration (for a list of eligible printers, supported documents and image types and other HP ePrint details, see www.hp.com/go/businessmobileprinting.
[16] HP Remote Graphics Software requires a Windows, Linux®, or Mac®OS X 10.10 and newer operating system and network access.
[17] HP Client Security Suite Gen 4 requires Windows and Intel® or AMD 8th generation processors.
[18] BIOS Absolute Persistence module is shipped turned off, and will be activated when customers purchase and activate a subscription. Service may be limited. Check with Absolute for availability outside the U.S. The optional subscription service of Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: http://www.absolute.com/company/legal/agreements/computrace-agreement.
[20] Finger Sensor is optional
[21] HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement.
[22] HP Password manager requires Windows.
[23] HP BIOSphere Gen4 requires Intel® or AMD 8th generation processors. HP Sure Start Gen4 is available on HP Z Workstations products equipped with 8th generation Intel® or AMD processors.
[24] EPEAT® registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country.
[25] External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
[26] Battery is internal and not replaceable by customer. Serviceable by warranty. Batteries have a default one year limited warranty except for Long Life batteries which will have same 1-year or 3-year.
[27] HP Secure Disk Erase is for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.
[28] HP Sure Click is available on select HP platforms and supports Microsoft® Internet Explorer, Google Chrome, and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode. Check http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-0922ENW for all compatible platforms as they become available.
[29] Windows Defender Opt In, Windows 10, and internet connection required for updates.
[30] Windows Hello optional
[31] Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system.
[32] Intel Turbo Boost performance varies depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for more information.
[33] Supported not preloaded.
[34] 4 cell now only w/ UMA, and not possible with DSC
[35] Intel® Optane™ memory is only available if HDD is selected and 2nd M.2 is not selected.
[36] Available in December 2018
[37] RAID 1 Configuration requires 2 NVMe PCIe M.2 drives; both drives must be the same capacity and only available on NVMe technology.
[38] Color calibration sensor is only available with the DreamColor display

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