HP ZBook 15v G5 Mobile Workstation

Supercharge your projects on a high performance laptop that packs a punch at a low cost, with high speed processors and graphics certified for peak performance.

HP recommends Windows 10 Pro.

Pro-grade performance
- Get lightening fast response times with 6-core Intel® Xeon® processors and 32GB memory, even when running multiple apps at once. Access large 4K files quickly with 4TB high-speed storage and speed up rendering time with NVIDIA® Quadro® graphics.

Software certified
- Work with confidence knowing your laptop is certified to tackle your most important applications. We've partnered with leading software providers like Autodesk and SolidWorks to ensure the HP ZBook 15v is optimized for peak performance.

Built to last
- The HP ZBook 15v was designed for rigorous military standard testing including drop, shock and harsh environments[1]. Now you can take your work on the road with confidence knowing your laptop was built for durability.

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 15v.
- Tackle complex 2D and 3D models with certified NVIDIA® Quadro® graphics - optimized for stability and peak performance with professional software apps.
- Do more at once with 6-core Intel® Xeon® processors designed to handle complex, multi-threaded applications like Autodesk Revit®.
- Increase productivity with up to 1 TB local PCIe NVMe storage - up to 21x faster than standard HDD and 6x faster than SATA SSD.
- Stay connected for longer with up to 10 hours of battery life and super-fast recharge, powering up by 50% in just 30 minutes.
- Collaborate and connect remotely through a 720-pixel webcam for sharp picture quality. Log in quickly and securely with facial recognition and a webcam shutter.
- Protect your confidential files with HP Sure Start G4, the hardware-enforced self-healing protection that automatically recovers the BIOS.
- Experience premium audio with custom tuned Bang & Olufsen speakers.
- Unclutter your work environment with HP's most powerful docking solution. Experience lightning fast Thunderbolt™ connectivity with remarkable performance.

HP ZBook 15v G5 Mobile Workstation Specifications Table

Operating System	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
Processor Family	8th Generation Intel® Core™ i7 processor (i7-8750H, i7-8850H); 8th Generation Intel® Core™ i5 processor (i5-8300H, i5-8400H); 8th Generation Intel® Xeon® E3 processor (E3-2176M, E3-2186M)[2,3]
Processors[2,3,4]	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™ i5-8300H with Intel® UHD Graphics 630 (2.6 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores); Intel® Core™ i5-8400H vPro™ processer 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™ i7-8850H vPro™ processer 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® Xeon® E-2176M vPro™ processer 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)
Maximum Memory	32 GB DDR4-2667 ECC SDRAM; 32 GB DDR4-2667 non-ECC SDRAM [5] Transfer rates up to 2667 MT/s.
Memory Slots	2 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 SATA SSHD [6] 256 GB up to 1 TB SATA SSD [6] 256 GB up to 512 GB M.2 SATA SED SSD [6]
Available Graphics	Integrated: Intel® UHD Graphics 630; Intel® UHD Graphics P630 [8,9] Discrete: NVIDIA® Quadro® P600 (4 GB GDDR5 dedicated) [10]
Audio	Bang & Olufsen, dual stereo speakers, dual array digital microphone, functions keys for volume up and down, combo microphone/headphone jack, HD audio [13]
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]
Expansion Slots	1 UHS-II SD card reader SD supports next generation secure digital and is backward compatible to SDHC, SDXC
Ports and Connectors	Left side: 1 AC power; 1 USB 3.0; 1 USB 3.0 (charging) Right side: 1 HDMI 2.0; 1 headphone/microphone combo; 1 power connector; 1 RJ-45; 1 USB 3.0; 1 USB 3.1 Type-C™ Thunderbolt™ 3 (DisplayPort™ 1.3)
Input Device	HP Collaboration Keyboard, full-size, spill-resistant, backlit, with drain and DuraKeys, clickpad with image sensor and glass surface, multi-touch gestures and taps enabledClickpad with multi-touch gesture support
Camera	HP Privacy HD Camera 720p; HP Privacy HD IR Camera 720p, face authentication with Windows Hello; HP Privacy FHD IR Camera 1080p, face authentication with Windows Hello [8,11,13,29]
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; HP WorkWise (requires Bluetooth); Skype for Business Certified; HP LAN-WLAN Protection; HP JumpStart; HP Client Security Suite Gen4 [14,15,16,17]
Security	Absolute persistence module; Common Criteria EAL4+ Augmented Certified Discrete TPM 2.0 Embedded Security Chip; DriveLock and Automatic DriveLock; HP FingerPrint Sensor; One-step log-on; Optional USB port disable at factory (user configurable via BIOS); Power-on password (via BIOS); RAID (available as a configurable option); Removable media write/boot control; SATA port disablement (via BIOS); Security lock slot; Serial enable/disable (via BIOS); Setup password (via BIOS); Support for Intel® Anti-Theft Technology; IR camera with Windows Hello [18,19,20,21]
Power	120 W Slim Smart external AC power adapter; 150 W Slim Smart external AC power adapter HP Long Life 3-cell, 52 Wh Li-ion polymer; HP Long Life 4-cell, 70 Wh Li-ion polymer [25]
Dimensions	36.5 x 25.65 x 2.54 cm
Weight	Starting at 2.14 kg
Environmental Certification	Low halogen[24]
Energy Efficiency Compliance	ENERGY STAR® certified and EPEAT® registered configurations available [23]

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Recommended Accessories and Services

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]

Product number: 2UK38AA

HP 3-year Travel Next Business Day Low End Notebook Only Hardware Support

This HP services offers notebook users on the go prompt, reliable coverage in major geographies of the world, for 3 years. For more information on Care Pack services, please visit www.hp.com/go/cpc.

Product number: UC909E

Messaging Footnotes

[1] MIL-STD-810G testing is pending . 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.

[2] 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.

[3] 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.

[4] Windows 10 MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com External link icon for additional details.

[5] Recharges the battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.

[6] Facial recognition and webcam shutter are optional features that must be configured at purchase.

[7] HP Sure Start Gen4 is available on HP Z Workstations equipped with 8th generation Intel® or AMD processors.

[8] ZBook dock with Thunderbolt™ sold separately.

Screen images courtesy of Motus Motorcycles.

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] Only 2 DIMM configurations run at 2400 MHz and 4 DIMM configurations run at 2133 MHz.

[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] HD content required to view HD images.

[9] Intel® HD graphics 630 is configurable as a standalone graphics option; Intel® HD graphics P630 only used when NVIDIA® Optimus™ Technology is enabled.

[10] 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. AMD Radeon™ Pro professional graphics support up to six independent displays when using an HP ZBook Dock with Thunderbolt 3 (sold separately) or DP 1.2 hubs with MST.

[11] Privacy camera is not available on touchscreen.

[12] Dual-microphone array when equipped with optional webcam and optional world facing microphone.

[13] Optional or add-on feature.

[14] 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.

[15] HP Remote Graphics Software requires a Windows, Linux®, or Mac®OS X 10.10 and newer operating system and network access.

[16] HP Workwise smartphone app is available as a free download on the App Store and Google Play. See requirements at www.hp.com/go/workwise.

[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.

[19] Finger Sensor is optional

[20] HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement.

[21] 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.

[22] HP Password manager requires Windows.

[23] EPEAT® registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country.

[24] External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.

[25] Battery is internal and not replaceable by customer. Serviceable by warranty.

[26] HP Secure Disk Erase is for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.

[27] 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.

[28] Microsoft Security Defender requires Windows 10

[29] Windows Hello optional

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