Datasheet

HP ZBook 17 G6 Mobile Workstation

Extreme performance to meet extraordinary demands

Our flagship ZBook is our ultimate laptop for those who need desktop performance on the go. Edit multiple content streams, manipulate complex data and develop in virtual reality—all on an impressive 17-inch diagonal screen.



HP recommends Windows 10 Pro.

Desktop performance. Unplugged.

- Blitz render times and speed through multi-app workflows with next generation NVIDIA Quadro® graphics, 128 GB of memory[1] and multiple cores. And, with our industry-leading thermal design, everything stays cool and quiet even under the heaviest workloads.

Software certified

- Work confidently knowing your laptop is certified to tackle the most demanding applications. We've partnered with leading software providers to ensure your ZBook is optimized for peak performance.

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.

- Work anywhere without compromising on performance or security with Windows 10 Pro, powered by HP's collaboration and connectivity technology.[1]
- Harness the power of virtual reality to accelerate your workflows with in-process walkthroughs & viewing, interactive VR content and ad-hoc design reviews.[2]
- Accelerate your workflow. Power through projects with up to 128 GB RAM for fast rendering, editing and visual effects performance.[3]
- Take multitasking to the next level with the Intel® Core™ i9 processor designed to handle complex, multithreaded apps like Adobe Premier Pro, and with fast clock speeds you can boost your speed on single threaded apps like Autodesk 3ds Max.[4,5]
- Run demanding professional apps with the newest generation Intel® Xeon® processors for powerful performance and productivity.[4]
- Experience high-end visualization and seamlessly render your biggest projects with the next generation VR-ready NVIDIA Quadro® graphics.
- Strenuously tested to meet software certification and deliver superb performance with leading software providers, including Autodesk, Adobe and SolidWorks.
- Protect your work with industry-leading security features and RAID 1 maintains a backup copy of all your files in case you ever need them.
- Bring your projects to life with one billion colors on the stunning 400 nit, 4K UHD HP DreamColor display. Maintain color accuracy with a built-in color calibration system.[7]
- Blitz through multiple tasks and ditch external drives with up to 10 TB storage and 5 drives. Get 6 TB local NVMe storage - up to 21x faster than standard HDD and 6x faster than SATA SSD.[8]
- Our ZBooks are designed to undergo extensive MIL-STD 810G testing.[9]
- Enhanced transfer and upload speeds via dual Thunderbolt™ 3 ports. Get wide-ranging connectivity options to ensure maximum device interaction: USB 3.0, HDMI, mDP, SD card, Smart Card Reader and more.

HP recommends Windows 10 Pro.

HP ZBook 17 G6 Mobile Workstation Specifications Table





Available Operating Systems	Windows 10 Pro 64 – HP recommends Windows 10 Pro.[1] Windows 10 Pro for Workstations 64[1] Windows 10 Home 64[1] Windows 10 Home Single Language 64[1] Windows 10 China Government Edition[1] FreeDOS 3.0 Red Hat® Enterprise Linux® 7 - Web support only[43]
Processor family[2,3,4,5,25]	9th Generation Intel® Core™ i5 processors (i5 9300H, i5 9400H); 9th Generation Intel® Core™ i7 processors (i7 9750H, I7 9850H); 9th Generation Intel® Core™ i9 processor (i9 9880H); 9th Generation Intel® Xeon® processor (Xeon E-2286M)
Available Processors[2,3,4,5,16,25]	Intel® Core™ i5 9300H with Intel® UHD Graphics 630 (2.4 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores) Intel® Core™ i7 9750H with Intel® UHD Graphics 630 (2.6 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores) Intel® Core™ i5-9400H with Intel® UHD Graphics 630 (2.5 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores), vPro™ 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, vPro™ Intel® Core™ i9-9880H with Intel® UHD Graphics 630 (2.3 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 16 MB cache, 8 cores), vPro™ Intel® Xeon® E 2286M with Intel® UHD Graphics P630 (2.4 GHz base frequency, up to 5.0 GHz with Intel® Turbo Boost Technology, 16 MB cache, 8 cores), vPro
Display size (diagonal)	17.3"
Maximum memory	128 GB DDR4-2667 non-ECC SDRAM; 64 GB DDR4-2667 ECC SDRAM [7] Transfer rates up to 2667 MT/s.
Memory slots[8,9,10]	4 SODIMM
Internal storage	500 GB M.2 SATA FIPS 140-2 SED SSD[11] 256 GB up to 2 TB PCIe® NVMe™ M.2 SSD[11] 512 GB PCIe® NVMe™ M.2 SED SSD[11] 512 GB 7200 rpm SATA FIPS 140-2 SED HDD[11] 500 GB up to 1 TB 7200 rpm SATA HDD[11] 256 GB up to 1 TB M.2 SATA SSD[11] 2 TB 5400 rpm SATA HDD[11]
Storage acceleration[49]	16 GB PCIe® NVMe™ Intel® Optane™ Memory for storage acceleration
Optical drive	Blu-ray writer and DVD-Writer
Display[21,23]	17.3" diagonal FHD eDP anti-glare WLED-backlit and ambient light sensor 300 nits 72% sRGB (1920 x 1080) 17.3" diagonal UHD eDP anti-glare WLED-backlit touch screen with Corning® Gorilla® Glass 5 and ambient light sensor 400 nits 95% sRGB (3840 x 2160) HP Dream Color display 17.3" diagonal UHD anti-glare WLED-backlit 400 nits 100% AdobeRGB (3840 x 2160)
Available Graphics	Integrated: Intel® UHD Graphics 630; Intel® UHD Graphics P630[16] Discrete: NVIDIA® Quadro® RTX 5000 (16 GB GDDR6 dedicated); NVIDIA® Quadro® RTX 4000 (8 GB GDDR6 dedicated); NVIDIA® Quadro® RTX 3000 (6 GB GDDR6 dedicated); NVIDIA® Quadro® T1000 (4 GB GDDR5 dedicated)
Audio[45]	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
Expansion slots	1 smart card reader; 1 SD media card reader
Ports and Connectors	Left side: 1 RJ-45; 1 USB 3.1 Gen 1 (charging); 2 USB 3.1 Gen 1 Right side: 1 power connector; 1 Mini DisplayPort™ 1.4; 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)[6,15,48]
Available Keyboards	HP Collaboration Keyboard, full-size, spill-resistant, backlit, with drain and DuraKeys, clickpad with glass surface, multi-touch gestures and taps enabled
Available Pointing Devices	Dual pointstick; Clickpad with multi-touch gestures enabled, taps enabled as default; Microsoft Precision Touchpad Default Gestures Support
LAN[12] Network Interface[12]	Integrated Intel® I219-LM GbE, vPro™ Integrated Intel® I219-V GbE, non-vPro™ Optional Near Field Communication (NFC) module
WWAN [14]	Intel® XMM™ 7360 LTE Advanced Optional Near Field Communication (NFC) module
Camera[17,18]	720p HD webcam; 1080p FHD webcam with IR
Available Software[26,27,28,29,35,36,46]	Bing search for IE11; Buy Office; HP Hotkey Support; HP Noise Cancellation Software; HP Performance Advisor; HP Recovery Manager; HP Remote Graphics Software; HP Support Assistant; Skype for Business Certified; HP JumpStart; HP Mobile Connect Pro; Native Miracast support; HP Connection Optimizer; HP Cloud Recovery
Security management[22,24,30,31,33,34,38,47,49,50]	Absolute persistence module; HP BIOSphere Gen5; HP Client Security Suite Gen5; HP Device Access Manager; HP FingerPrint Sensor; HP Manageability Integration Kit; HP Power On Authentication; HP Secure Erase; HP Security Manager; HP Sure Recover Gen2; HP Sure Sense; HP Sure Start Gen5; Master Boot Record security; Microsoft Defender; Pre-boot authentication; Security lock slot; Trusted Platform Module TPM 2.0 Embedded Security Chip
Power	200 W Slim Smart external AC power adapter
Battery type[37]	HP Long Life 6-cell, 95.6 Wh Li-ion polymer
Dimensions	16.4 x 11.3 x 1.3 in; 41.6 x 28.8 x 3.3 cm
Weight	Starting at 7 lb; Starting at 3.2 kg
Energy efficiency compliance[41]	ENERGY STAR® certified and EPEAT® 2019 registered where applicable. EPEAT® registration varies by country. See www.epeat.net for registration status by country.
Environmental specifications[42]	Low halogen

HP recommends Windows 10 Pro.

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Accessories and services (not included)

HP 17.3 Business Slim Top Load



Make it easy to carry your 17.3" diagonal notebook when you're on the move with the HP 17.3 Business Top Load. It has two carrying handles and a crossbody strap and is ready to help protect its precious cargo with lockable[1] zippers, a secure RFID pocket, and plenty of room.
Product number: 2UW02AA

HP Thunderbolt Dock G2 with Combo Cable



Reinvent docking and boost productivity with our 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: 3TR87AA

HP Slim Wireless Keyboard and Mouse



Boost productivity and maximize your workspace with the stylish and compact HP Slim Wireless Keyboard and Mouse, designed to complement the 2015 class of HP Business PCs.
Product number: T6L04AA

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

ZBook 17 G5 battery kit (95 Whr)



Product number: 4ME80AA

HP 3 Year Premier Care Essential Hardware Support

HP Premier Care Solutions

Experience optimal uptime when working in the office, remotely, and on the road with the HP Essential Care suite of coverage, protection, and support services.
Product number: UB5Q4E (for 1 year platforms) UB5H4E (for 3 year platforms)

HP recommends Windows 10 Pro.

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Messaging 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] Requires optional VR-ready NVIDIA Quadro® graphics.
[3] Up to 128GB memory is an optional, configurable feature.
[4] 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.
[5] Adobe Premier Pro and Autodesk 3ds Max sold separately.
[7] DreamColor display required for 1 billion colors and is an optional or add on feature.
[8] 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.
[9] 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.

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] Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
[4] Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for more information.
[5] 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
[6] HDMI port-cable not included.
[7] Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.
[8] Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory channels.
[9] Intel® allows architectures designed with four DIMM slots to run at 2400 MT/s
[10] Maximum memory capacities assume Windows 64-bit operating systems. With Windows 32-bit operating systems, memory above 3 GB may not all be available due to system resource requirements.
[11] For storage drives GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35 GB (for Windows 10) is reserved for system recovery software.
[12] GbE - 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.
[13] 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.
[14] 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.
[15] Mini DisplayPort 1.4 with discrete, 1.2 with UMA.
[16] Intel® Integrated graphics: Intel® UHD Graphics 630 integrated on CoreTM i7 processors and Intel® UHD Graphics P630 integrated on Xeon® processors.
[17] FHD and HD content required to view HD images respectively.
[18] Windows Hello face authentication utilizes a camera specially configured for near infrared (IR) imaging to authenticate and unlock Windows devices as well as unlock your Microsoft Passport.
[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.
[25] 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.
[26] Skype is not offered in China.
[27] HP Mobile Connect Pro is only available on preconfigured devices with WWAN. For geographic availability refer to http://www.hp.com/go/mobileconnect.
[28] 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. For more information: http://windows.microsoft.com/en-us/windows-8/project-wireless-screen-miracast.
[29] HP Performance Advisor Software - HP Performance Advisor is ready and waiting to help you get the most out of your HP Workstation from day one—and every day after. Learn more or download at: https://www8.hp.com/us/en/workstations/performance-advisor.html
[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.
[32] Requires Windows and Intel® 8th generation processors.
[33] Microsoft Defender Opt in and internet connection required for updates.
[34] Security lock slot is Lock sold separately.
[35] HP Support Assistant requires Windows and Intel® 8th generation processors.
[36] HP Connection Optimizer requires Windows 10.
[37] 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.
[38] HP Sure Start Gen5 is available on select HP PCs with Intel processors. See product specifications for availability.
[40] Supports HP Fast Charge Technology.
[41] Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more information.
[42] External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
[43] For detailed Linux® OS/hardware support information, see: http/www.hp.com/linux_hardware_matrix
[45] Dual-microphone array when equipped with optional webcam and optional world facing microphone.
[46] HP Remote Graphics Software - The remote desktop solution for serious workstation users and their most demanding applications. Download at: http://www.hp.com/go/RGS
[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™.
[48] HDMI 2.0b with discrete, 1.4 with UMA.
[49] HP Sure Recover Gen2: See product specifications for availability. Requires an open, wired network connection. Not available on platforms with multiple internal storage drives. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data. HP Sure Recover (Gen1) does not support platforms with Intel® Optane™.
[50] HP Sure Sense requires Windows 10. See product specifications for availability.

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