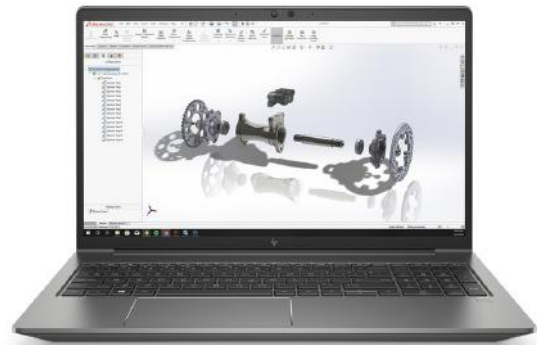# HP ZBook Power 15.6 inch G8 Mobile Workstation PC

Pro-certified power within reach

Now you can upgrade to professional ZBook performance and security at an unbelievably affordable price. Power up your productivity on a durable yet premium design, with pro-grade components including graphics certified for leading software applications.

HP recommends Windows 10 Pro for business

Power through professional workflows

- Blaze through 3D modeling workloads with up to a NVIDIA RTX™ A2000 Laptop GPU, while eliminating slowdowns with Intel® Core™ i9 CPUs,[1] 64GB RAM and dual 2TB M.2 SSDs.[2] Plus, remote collaboration is easy with ZCentral Remote Boost software.[3]

Certified, secured, and supported.

- Get peace of mind with a secure,[4] serviceable mobile workstation that's certified for the professional apps you use every day. HP Sure Suite advanced security features come standard while optional management tools simplify fleet-wide roll-outs.

Durable with a premium touch.

- With a sanitizable[5] all-aluminum chassis and MIL-STD[6] durability, this PC is tough enough to last, yet built with a premium touch. The four-sided narrow bezel maximizes screen real estate, while an optional 4K UHD display makes project details pop.[7]

- Work anywhere without compromising on performance or security with Windows 10 Pro[8] and HP's collaboration and connectivity technology.

- NVIDIA RTX™ professional GPUs deliver the performance professionals need and the flexibility to work from anywhere in a compact form factor.[2]

- Take multitasking to the next level with 11th gen Intel® Core™ i9 processor[1] designed to handle complex, multithreaded apps like Adobe Premiere Pro®, and with fast clock speeds you can boost your speed on single threaded apps as Autodesk® 3ds Max®[11]

- Strenuously tested to meet ISV certification and deliver superb performance and support with leading software providers, including Autodesk® and Adobe®.[11]

- Lend a teammate the power of your device remotely with ZCentral Remote Boost software-included with the purchase of any Z device.[3]

- Security features from HP work together to create an always on, always acting, resilient defense. From the BIOS to the browser, above and below the OS, these constantly evolving solutions help protect your PC from threats.

- Know if someone has tried to open the cover of your PC thanks to a tamper lock intrusion detection system that can require an administrator password to restart the system.[12]

- Built with the environment in mind, this ZBook includes recycled ocean-bound plastics,[13] plastic-free packaging, and ultra-efficient power consumption.

- Built-in Tile™ integration helps you track down your lost or misplaced device.[14]

- Plug in to greater connectivity at your desktop with the HP Thunderbolt Dock for lightning-fast Thunderbolt™ 4[15] transfers and the flexibility to run up to two external 4K displays.[16,17]

- Work without limits in any location with up to 4TB[10] of local PCIe G4 storage.[9]

HP ZBook Power 15.6 inch G8 Mobile Workstation PC Specifications Table

Available Operating Systems	Windows 10 Pro 64 – HP recommends Windows 10 Pro for business[1,14] Windows 10 Home 64[1,14] Windows 10 Home Single Language 64 – HP recommends Windows 10 Pro.[1,14] FreeDOS 3.0
Processor family[2,3,4,5,25]	11th Generation Intel® Core™ i5 processor; 11th Generation Intel® Core™ i7 processor; 11th Generation Intel® Core™ i9 processor
Available Processors[2,3,4,5,16,25]	Intel® Core™ i5-11400H with Intel® UHD Graphics (2.7 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores) Intel® Core™ i5-11500H with Intel® UHD Graphics (2.9 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores), supports Intel® vPro® Technology Intel® Core™ i7-11800H with Intel® UHD Graphics (2.3 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 8 cores) Intel® Core™ i7-11850H with Intel® UHD Graphics (2.5 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 8 cores), supports Intel® vPro® Technology Intel® Core™ i9-11900H with Intel® UHD Graphics (2.5 GHz base frequency, up to 4.9 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 8 cores) Intel® Core™ i9-11950H with Intel® UHD Graphics (2.6 GHz base frequency, up to 5.0 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 8 cores), supports Intel® vPro® Technology
Chipset	Intel® WM590
Display size (diagonal)	15.6"
Maximum memory	64 GB DDR4-3200 non-ECC SDRAM [7] Transfer rates up to 3200 MT/s.
Memory slots[8,9,10]	2 SODIMM; supports dual channel
Internal storage	256 GB up to 2 TB PCIe® Gen3 NVMe™ M.2 SSD[11, 51, 52] 512 GB up to 2 TB PCIe® Gen4 NVMe™ M.2 SSD[11, 51, 52] 256 GB up to 512 GB PCIe® Gen3 NVMe™ M.2 SED SSD[11]
Display[21,23,24]	15.6" diagonal, FHD (1920 x 1080), touch, IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC 15.6" diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 400 nits, low power, 100% sRGB 15.6" diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC 15.6" diagonal, 4K UHD (3840 x 2160), IPS, narrow bezel, anti-glare, 400 nits, low power, 100% sRGB
Available Graphics	Integrated: Intel® UHD Graphics[16] Discrete: NVIDIA® T1200 (4 GB GDDR6 dedicated); NVIDIA RTX™ A2000 (4 GB GDDR6 dedicated); NVIDIA® T600 (4 GB GDDR6 dedicated)
Audio[45]	HP Audio, dual stereo speakers, dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio
Expansion slots	1 smart card reader
Ports and Connectors	Left side: 1 RJ-45; 1 SuperSpeed USB Type-A 5Gbps signaling rate; 1 HDMI 2.0 Right side: 1 power connector; 1 headphone/microphone combo; 1 Thunderbolt™ 4 with USB4 Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 2 Super Speed USB Type-A 5Gbps signaling rate (1 charging)[6,55,56]
Available Keyboards	HP Premium Quiet Keyboard, spill-resistant, full-size, backlit, keyboard with a Programmable Key and numeric keypad
Available Pointing Devices	ClickPad Mylar with multi-touch gesture support, taps enabled as default; Microsoft Precision Touchpad with gesture support
Communications[12,13]	Intel® I219-LM GbE, vPro® Intel® I219-V GbE, non-vPro® Intel® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5 combo, vPro® Intel® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5 combo, non-vPro®
Camera[17,18]	720p HD camera; 720p HD IR camera
Software[15,28,29,32,33,35,36,39,54]	Bing search for IE11; Buy Office; HP Hotkey Support; HP Performance Advisor; HP Recovery Manager; HP Remote Graphics Software; HP Support Assistant; HP JumpStart; Native Miracast support; HP Connection Optimizer; HP Cloud Recovery; HP Admin; HP Privacy Settings; HP QuickDrop; HP Easy Clean; HP PC Hardware Diagnostics; HP ZCentral Remote Boost 2020 Software for Z workstation; Tile™ Application
Software support	HP Smart Support
Security management[19,22,27,30,31,34,38,47,49,50,53]	Absolute persistence module; HP Device Access Manager; HP Power On Authentication; HP Security Manager; Integrated smart card reader; Master Boot Record security; Pre-boot authentication; HP Sure Click; Windows Defender; HP Secure Erase; HP Manageability Integration Kit; HP Sure Sense; HP Secure Platform; HP Sure Recover Gen3; HP BIOSphere Gen6; HP Sure Start Gen6; HP Sure Run Gen3; HP Tamper Lock; Nano Security Lock Slot; HP Client Security Suite Gen7; Trusted Platform Module TPM 2.0; Windows Secured Core
Fingerprint reader	Fingerprint reader (select models)
Power[20]	120 W Slim Smart external AC power adapter; 150 W Slim Smart external AC power adapter
Battery type[37,40]	HP Long Life 6-cell, 83 Wh Li-ion polymer
Dimensions	14.15 x 9.21 x 0.9 in; 35.94 x 23.39 x 2.28 cm
Weight	Starting at 4.16 lb; Starting at 1.89 kg (Weight varies by configuration and components.)
Energy efficiency compliance[41]	ENERGY STAR® certified; EPEAT® registered where applicable. EPEAT® registration varies by country. See www.epeat.net for registration status by country.
Sustainable impact specifications[42]	Low halogen

HP ZBook Power 15.6 inch G8 Mobile Workstation PC

Messaging Footnotes

[1] 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.

[2] Optional, configurable feature that must be configured at purchase.

[3] HP ZCentral Remote Boost does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and laptops without license purchase. With non-Z sender devices, purchase of perpetual individual license or perpetual floating license per simultaneously executing versions and purchase of ZCentral Remote Boost Software Support is required. ZCentral Remote Boost requires Windows 10, RHEL/CentOS (7 or 8), UBUNTU 18.04 or 20.04 LTS, or HP ThinPro 7.1 operating systems. MacOS (10.13, 10.14, 10.15) operating system is only supported on the receiver side. Requires network access. The software is available for download at hp.com/ZCentralRemoteBoost.

[4] Based on HP's unique and comprehensive security capabilities at no additional cost among desktop workstation vendors as of Sept. 2017 on HP Mobile Workstations with 7th Gen and higher Intel® Processors.

[5] Select household wipes can be safely used to clean HP Elite and Workstation PCs up to 1,000 wipes: See wipe manufacturer's instructions for disinfecting and the HP cleaning guide for HP tested wipe solutions at How to Sanitize Your HP Device Whitepaper (http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-7610ENW). Not applicable to HP Elite c1030 Chromebook.

[6] Testing is not intended to demonstrate fitness for U.S. Department of Defense 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.

[7] 4K UHD display is an optional feature that must be configured at purchase.

[8] 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.

[9] Optional, configurable feature.

[10] For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB (for Windows 10) of system disk is reserved for system recovery software.

[11] Adobe, Adobe Premier Pro and Autodesk® 3ds Max® sold separately.

[12] HP Tamper Lock must be enabled by the customer or your administrator.

[13] Speaker enclosure component made with 5% ocean bound plastic as of 2/3/2020.

[14] Some Tile™ features require optional subscription to Tile™ Premium. Ring feature not supported. Tile™ application for Windows 10 available for download from the Windows Store. Mobile phone app available for download from App Store and Google Play. Requires iOS 11 and greater or Android 6.0 and greater see https://support.thetileapp.com/hc/en-us/articles/200424778 for more information. Tile™ will function as long as the PC has battery power.

[15] HP Thunderbolt Dock with Thunderbolt™ 4 sold separately.

[16] External displays sold separate

[17] Optional hybrid graphics is required to run up to two external 4K displays.

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 3200 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 access point and Internet service required and sold separately. Availability of public wireless access points limited. The specifications for Wi-Fi 6 (802.11ax 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 802.11ax WLAN devices. Only available in countries where 802.11ax is supported.

[14] HP tested Windows 10, version 1909 on this platform. For testing information on newer versions of Windows 10, please see https://support.hp.com/document/c05195282

[15] HP Cloud Recovery is available for HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, wired network connection. Note: You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Detail please refer to: https://support.hp.com/us-en/document/c05115630.

[16] Intel® Integrated graphics: Intel® UHD Graphics, 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.

[19] HP Sure Click requires Windows 10. See https://bit.ly/2PrLT6A_SureClick for complete details.

[20] 120 W power adapter is only available with UMA graphics. 150 W power adapter is only available with discrete graphic options.

[21] UHD content required to view UHD images.

[22] HP BIOSphere Gen6 requires Windows 10 and is available on select HP Pro and Elite PCs. Features may vary depending on the platform and configurations.

[23] Resolutions are dependent upon monitor capability, and resolution and color depth settings.

[24] Actual brightness will be lower with HP Sure View or touch-screen.

[25] For full Intel® vPro™ functionality, Windows 10 Pro 64 bit, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or WLAN card and TPM 2.0 are required. Some functionality requires additional 3rd party software in order to run. See http://intel.com/vpro

[27] HP Sure Run Gen3 is available on select Windows 10 Pro or Enterprise based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors.

[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://www8.hp.com/us/en/ads/clientmanagement/overview.html.

[31] Absolute Persistence Module: 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] HP Easy Clean requires Windows 10 RS3 and will disable the keyboard, touchscreen, and clickpad only. Ports are not disabled. See user guide for clean.

[33] HP Quick Drop requires Internet access and Windows 10 PC preinstalled with HP QuickDrop app and either an Android device (phone or tablet) running Android 7 or higher with the Android HP QuickDrop app, and /or an iOS device (phone or tablet) running iOS 12 or higher with the iOS HP QuickDrop app.

[34] Security lock for security slot is sold separately.

[35] HP Support Assistant Internet access required.

[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 warranty as the platform.

[38] HP Sure Start Gen6 is available on select HP PCs and requires Windows 10.

[39] HP ZCentral Remote Boost does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and laptops without license purchase. With non-Z sender devices, purchase of perpetual individual license or perpetual floating license per simultaneously executing versions and purchase of ZCentral Remote Boost Software Support is required. ZCentral Remote Boost requires Windows 10, RHEL/CentOS (7 or 8), UBUNTU 18.04 or 20.04 LTS, or HP ThinPro 7.1 operating systems. MacOS (10.13, 10.14, 10.15) operating system is only supported on the receiver side. Requires network access. The software is available for download at hp.com/ZCentralRemoteBoost.

[40] Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors.

[41] Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. 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.

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

[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™.

[49] HP Sure Recover Gen3 is available on select HP PCs and requires an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data. Network based recovery using Wi-Fi is only available on PC's with Intel Wi-Fi Module.

[50] HP Sure Sense is available on select HP PCs and is not available with Windows10 Home.

[51] Storage slot 1 can support up to PCIe Gen 4 speeds; storage slot 2 can support up to PCIe Gen 3 speeds.

[52] Storage slot 1 and 2 can support both PCIe Gen 3 and Gen 4 drives.

[53] Requires an Intel® vPro® , AMD Ryzen™ Pro processor or Qualcomm® processor with SD850 or higher and requires 8 GB or more system memory. Secured Core PC functionality can be enabled from the factory.

[54] Tile requires Windows 10. Some features require optional subscription to Tile Premium. Ring feature not available on HP ZBook Power G8. Tile application for Windows 10 available for download from the Windows Store. Mobile phone app available for download from App Store and Google Play. Requires iOS 11 and greater or Android 6.0 and greater see https://support.thetileapp.com/hc/en-us/articles/200424778 for more information. HP Tile will function as long as the PC has battery power.

[55] Thunderbolt™ 4 and USB4™ maximum speed of 40Gbps will be divided between the different data workstreams.

[56] SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4

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