HP ZBook Power 15.6 inch G9 Mobile Workstation PC



Upgrade to professional ZBook performance and security at an unbelievably affordable price. Power up your productivity on this durable yet premium device—delivering enhanced collaboration features and prograde components to seamlessly run leading professional software applications.



*Product image may differ from actual product

HP recommends Windows 11 Pro for business

Power through professional workflows

 Tackle your biggest projects and blaze through 3D modeling workloads with up to an NVIDIA RTX™ A2000 Laptop GPU.³ Eliminate slowdowns and take-on serious multitasking with up to an Intel[®] Core™ i9 vPro[®] processor,^{1,2,3} 64GB memory⁴ and 8TB storage.^{3,5}

Durable with a premium touch

 With an all-aluminum chassis and MIL-STD 810 durability,⁶ this mobile workstation is tough enough to last, with a distinctly premium touch. See more screen, in mesmerizing clarity, with a narrow bezel 4K UHD display that makes project details pop.²

Connect. Communicate. Collaborate

Collaborate effectively from anywhere with up to 16-hours of battery life,⁸ a 720p HD camera, and AI enhanced audio software¹¹ that blocks background noises. And, with next-gen Wi-Fi 6E get a fast, reliable connection—even in dense Wi-Fi[®] environments.^{9,10}

Certified, secured and supported

- Get peace of mind with a serviceable, high-performance PC that's certified to work with
 professional apps and comes with HP Wolf Security for Business—protecting below, in
 and above the OS.¹² Simplify fleet-wide rollouts with optional management tools.
- Work anywhere without compromising on performance or security with Windows 11¹³ powered by HP's collaboration and connectivity technology.
- Blitz through multiple tasks and ditch external drives with up to 8 TB local NVMe storage^{5,14}
- Power through projects with up to 64 GB RAM⁴ for fast editing and design.
- Power through projects with up to NVIDIA® A2000 laptop GPU,³ certified for pro-apps.
 Take multitasking to the next level with up to Intel® Core™ i9 vPro® processors^{1,2,3}
 - designed to handle complex, multithreaded apps.
- Designed for ultimate durability, this ZBook undergoes brutal MIL-STD 810H⁶ tests to help ensure this PC keeps rolling through your workday.
- HP Wolf Security for Business creates a hardware-enforced, always-on, resilient defense. From the BIOS to the browser, above, in, and below the OS, these constantly evolving solutions help protect your PC from modern threats.¹²
- Strenuously tested to meet ISV certification and deliver superb performance and support with leading software providers.
- Get a fast and reliable connection in dense wireless environments with Wi-Fi 6E.¹⁰
- Help protect our shared future with PCs that drive towards increasing sustainability.
- Connect to everything you need with a wide-range of connectivity options: multiple USB 3.1 Type-A ports, Thunderbolt™ 4 with USB Type-C[®],¹⁵ HDMI 2.0,¹⁶ Smart Card Reader, and headphone/microphone combo jack.
- Plug in to greater connectivity at your desktop with the optional HP Thunderbolt Dock for lightning-fast ThunderboltTM 4^{15,17} transfers and the flexibility to run up to two external 4K displays.^{18,19}



HP ZBook Power 15.6 inch G9 Mobile Workstation PC Specifications Table







*Product image may differ from actual product

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AvailableOperating Systems	Windows 11 Pro ¹ Windows 11 Proc Education ¹ Windows 11 Home – HP recommends Windows 11 Pro for business ¹ Windows 11 Home Single Language – HP recommends Windows 11 Pro for business ¹ Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade) ^{1,2} FreeDOS 3.0
Processor family ^{2,3,4,5,25}	12th Generation Intel®Core™ i5 processor; 12th Generation Intel®Core™ i7 processor; 12th Generation Intel®Core™ 9 processor
AvailableProcessors ^{2,3,4,5,16,25}	Intel®Core™ 0-12900HK with Intel®UHD Graphics (1.8 GHz E-corebase frequency, 2.5 GHz P-corebase frequency, up to 3.8 GHz E-coreMax Turbo frequency, up to 5.0 GHz P-coreMax Turbo frequency, 24 MBL3 cache, 6 P-cores and 8 E-cores, 20 threads), httel®Core™ 0-12900H with Intel®UHD Graphics (1.8 GHz E-corebase frequency, 2.5 GHz P-corebase frequency, up to 3.8 GHz E-coreMax Turbo frequency, up to 5.0 GHz P-coreMax Turbo frequency, 24 MBL3 cache, 6 P-cores and 8 E-cores, 20 threads), supports Intel®vPo® Technology, httel®Core™ 7- 12800H with Intel®UHD Graphics (1.8 GHz E-corebase frequency, 2.4 GHz P-corebase frequency, up to 3.7 GHz E-coreMax Turbo frequency, up to 4.8 GHz P-coreMax Turbo frequency, up to 3.2 GHz P-corebase frequency, 2.4 GHz P-corebase frequency, up to 3.7 GHz E-coreMax Turbo frequency, up to 4.8 GHz P-corebase frequency, up to 3.2 GHz P-corebase frequency, up to 3.2 GHz P-corebase frequency, up to 5.2 GHz P-corebase frequency, up to 4.8 GHz E-corebase frequency, up to 3.2 GHz P-corebase frequency, up to 3.2 GHz P-corebase frequency, up to 4.8 GHz E-corebase frequency, up to 5.2 GHz P-corebase frequency, up to 7.2 GHz P-corebase frequency, up to 3.2 GHz E-corebase frequency, up to 4.5 GHz P-corebase frequency, up to 3.3 GHz E-corebase frequency, up to 4.5 GHz P-corebase frequency, up to 3.3 GHz E-corebase frequency, up to 4.5 GHz P-corebase frequency, 1.7 GHz P-corebase frequency, 1.7 GHz P-corebase frequency, 1.8 GHZ E-corebase frequency, 1.0 to 4.5 GHz P-corebase frequency, 1.0 to 3.3 GHz E-corebase frequency, 1.0 to 4.5 GHz P-corebase frequency, 1.0 to 3.3 GHz E-corebase 1.0 GHz P-corebase frequency, 1.8 MBL3 cache, 6 P-cores and 8 E-cores, 1.6 threads), supports Intel®VPo® Technology, Intel®Core® T-2500H with Intel®UHD Graphics (1.8 GHz E-corebase frequency, 2.5 GHz P-corebase frequency, 1.0 to 3.3 GHz E-corebase frequency, 2.5 GHz P-corebase frequency, 1.0 to 4.5 GHz P-corebase frequency, 1.8 MBL3 cache, 6 P-cores and 8 E-cores, 1.6 threads), supports Intel®VPo® Technology, Intel®Core® T-2500
Maximum memory	64 GB DDR5-4800 non-ECC SDRAM 7 Transferrates up to 4800 MT/s.
Memoryslots	2 SODIMM; supports dual channel ^{8,9,10}
Internal storage	256 GB up to 4 TB PCIe® Gen4 NVMe™ M.2 SSD ^{11,52} 256 GB up to 512 GB PCIe® Gen4 NVMe™ M.2 SSD SSD ¹¹ up to 8 TB PCIe® Gen4 x2 NVMe™ ¹¹
Display size (diagonal, metric)	39.6 cm (15.6")
Display	39.6 cm (15.6°) diagonal, FHD (1920 x 1080), touch, IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC; 39.6 cm (15.6°) diagonal, FHD (1920 x 1080), touch, IPS, narrow bezel, anti- reflection Corning® Gorilla® Glass 5, 250 nits, 45% NTSC; 39.6 cm (15.6°) diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 400 nits, low power, 100% sRGB; 39.6 cm (15.6°) diagonal, AK UHD (3840 x 2160), IPS, narrow bezel, anti-glare, 400 nits, low power, 100% sRGB ^{14,21,23,24}
AvailableGraphics	Integrated: Intel®ins®X® Graphics ^{16,32} Discrete: NVIDIA RTX™A1000 Laptop GPU (4 GB GDDR6 dedicated); NVIDIA RTX™A2000 Laptop GPU (8 GB GDDR6 dedicated); NVIDIA®T600 Laptop GPU (4 GB GDDR6 dedicated)
Audio	HP Audio, dual stereo speakers, dual array digital microphones, functions keys for volume up and down, combo microphone/headphonejack, HD audio 45
Memory card device	1 smart card reader (select models)
Ports and Connectors	Left side: 1 SuperSpeed USB Type-A 5Gbps signaling rate (charging); 1 HDM ⁶ ; Right side: 1 Thunderbolt™ 4 with USB4™ Type-C®40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge); 2 SuperSpeed USB Type-A 5Gbps signaling rate (charging) ^{28,55}
Input devices	HP Premium Quiet Keyboard, spill-resistant, full-size, backlit, keyboard with a Programmable Keyand numeric keypad; ClickPad Mylar with multi-touch gesture support, taps enabled as default; Microsoft Precision Touchpad with gesture support;
Communications	LAN: htel®1219-LM GbE, vPro®; htel®1219-V GbE, non-vPro®; WLAN: htel®Wi-FiGE AX211 (2x2) and Bluetooth®5.3 wireless card, vPro®; htel®Wi-FiGE AX211 (2x2) and Bluetooth®5.3 wireless card, non-vPro® ^{12,13} ; NFC Mirage WNC XRAV-1
Camera	720p HD camera; 720p HD R camera ^{17,18}
Software	Bing search for E11; Buy Office; HP Hotkey Support; HP Performance Advisor; HP Recovery Manager; HP Remote Graphics Software; HP Support Assistant; HP Jump Start; Native Miracast support; HP Connection Optimizer; HP Cloud Recovery; HP Admin; HP Privacy Settings; HP QuickOrop; HP Easy Clean; HP PC Hardware Diagnostics; HP ZCentral Remote Boost 2020 Software for Z workstation; TiPe: MapLication; HP Auto Lock and Awake; "Sci5:3:9
Availablesoftware	HP Smart Support ⁴³
Securitymanagement	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 BIOS phere 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; ^{19,22,27,30,31,34,38,47,49,50,53}
Security Software Licenses	HP Wolf Pro Security Edition ⁵⁶
Fingerprintreader	Fingerprintreader (select models)
Management features	HP Power Manager ³³
Power	120 W Slim Smart external AC power adapter; 150 W Slim Smart external AC power adapter ²⁰
Battery type	HP Long Life6-cell, 83 Wh Li-ion polymer ^{37,40}
Batterylife	Up to 18 hours
Dimensions	35.94 x 23.39 x 2.28 cm
Weight	Starting at 1.93 kg; (Weight varies by configuration and components.)
Ecolabels	EPEAT® registered configurations available ⁴¹
Energy star certified (series fixed)	ENERGY STAR® certified
Sustainable impact specifications	Low Halogen; 40% post-consumer recycled plastic; Bulk packaging available; External power supply 90% efficiency; Molded paper pulp cushion inside boxis 100% sustainably sourced and recyclable; Ocean-bound plastic in speaker enclosure(s) ^{42,44,46,48,51}
Warranty	3 year (3/3/0) limited warranty includes 3 years of parts and labor. No on-siterepair. Terms and conditions vary by country. Certain restrictions and exclusions apply.

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Accessories and services (not included)



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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 br naming is not an easurement of higher performance. ² For full Intel[®] vPro[®] functionality, Windows 10 Pro 64 bit, avPro supported processor, vPro enabled chipset, vPro enabled wired LAN and br WLAN card and TPM 2.0 are required. Some functionality requires additional 3rd party software in order to run. See

http://intel.com/vpro ³ Optional, configurable feature that must be configured at purchase

http://findi.com/kpro
 Optional, com/kpro
 Optional, com/kprox
 Optional, com/kprox
 Optional, com/kprox
 Descriptional feature that must be configured at purchase.
 Descriptional feature that must be configured at purchase.
 Testing is not intended to demonstrate fitness of U.S. Department of Defense (DoD) contract requirements or formilitary 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.
 Select house/hold wipes can be safely used to clean HP Elteand 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 Sanitze Your HP Device Whitepaper (http://h20195.www2.hp.com/kz/GetDocument.aspx?docname=4AA7-7610EMW). Not applicabile to HP Eltec 1030 Chomebook.
 Battery Ifeewill vary depending on the 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 MobileWark18 battery benchmarkhttps://bag.oc.om/products/mobilemark-2018/for additional detais.
 Wi-FIGE is an optional feature that must be configured at purchase.
 Wi-FIGE requires aWi-FIGE route; sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-FIGE is backwards compatible with nitemal PC speakers, microphone and and g headsets. The DNN lose Reduction setting can be configured through Hindows update corta.
 Not Note Reduction setting can be configured through Mindows update corta.
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 Not all features are availa

Technical Specifications Footnotes

¹ Notal features are available in all editions or versions of Windows. Systems may require upgraded and *bit* separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed intermet and Microsoft account required. 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. Notal Lustomers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware, asoftware configurations. Intel's numbering, branding and *bit* naming is not a measurement of higher performance.
³ Processors peed denotes maximum performance may expressions will nu at lower speeds in battery optimization mode.
⁴ Intel⁸ Turbo Boost performance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with hitel and AMD 7 th generation and forward processors or provide any Windows 8 or Windows 7 drivers on http://www.support.hc.com
⁶ HDMIport-cable not included.
⁷ Due to the non-industry standard nature of some third-party memory modules.

http://www.support.hp.com
HDMI port-cable not included.
Pue to then on-industry standard nature of some third-party memory modules, werecommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.
Maximized dual-channel performance requires SDDIMMs of the same size and speed in both memory channels.
Intel® allows architectures designed with four DIMM slots to run at 3200 MT/s.
Nakamum 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.
In or storage drives, GB = 1 billion bytes. The 1 trillion bytes. The schular formatic capacity is less. Up to 35GB (for Windows) is reserved for system recovery software.
CB = The term '10/100/1000' or 'iggabit' Ethemet indicates compatibility with IEEE standard 802. 3ab for Gigabit Ethemet, and does not connote actual operating speed of 1 Gb/s. Forhigh-speed transmission, connection to a Gigabit Ethemet server and network infrastructure is required.
Wi-FIGE requires a Wi-FIGE router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-FIGE is backwards compatibile with prior 802.11 specs. And available in countries where Wi-FIGE is supported.
Ho Zomarafeature. InfraRed feature, PS Anti-reflection Touchscreen feature are based on the selection of display.
HP Zoentar Remote BoostS end er does not comperensial led on Z Wiorkstations but used and run on all Z desktop and laptops without license purchase through 2022. With non-Z sender devices, purchase of Zeentral Remote BoostS on der non-a-2 Hardware requires alkined windows 10, RHEL/CentOS (7 or 8), or UBUNTU 18, 04 or 20. 04 UTS operating systems. macOS (10.14 or newe) operating system and ThinPro 7.2 areonly supported on there evier side. Requires network access. The software's available f

 ¹⁰ HP Sure Lick requires Windows 10 Pro oringine or Enterprise. Seent(ps://bit.iv/2Prol.04_Sure(Lick ror Complete details.
 ¹⁰ LOV power adapter is only available livit MDA graphics. 150 W power adapter is only available with discrete graphic options.
 ²¹ LOV power adapter is only available livit MDA graphics. 150 W power adapter is only available with discrete graphic options.
 ²² HP BIOS phere Gen6 features may vary depending on the platform and configuration.
 ²³ Resolutions are dependent upon monitor capability, and resolution and color depth settings.
 ²⁵ Forfull Intel[®] VPro[®] Kinctionality, Windows 10 Pro 64 bit, avPro supported processor, vPro enabled chipset, vPro enabled wired LAN and *b*r WLAN card and TPM 2.0 are required. Some functionality requires additional 3rd party software in order to run.
 ²⁶ FP full Intel[®] VPro[®] Kinctionality. 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 *b*r an IDS device (phone or tablet) running in S1 2 or higher with the iOS HP QuickDrop app, and *b*r an IDS device (phone or tablet) running in S1 2 or higher with the iOS HP QuickDrop app, and *b*r an IDS device (phone or tablet) running in S1 2 or higher with the iOS HP QuickDrop app, and *b*r an IDS device (phone or tablet) running in S1 2 or higher with the iOS HP QuickDrop app, and *b*r an IDS device (phone or tablet) running in S1 2 or higher with the iOS HP QuickDrop app, and *b*r an iDS device (phone or tablet) running in S1 2 or higher with the iOS HP QuickDrop app, and *b*r an iDS device (phone or tablet) running iDS 12 or higher with the iOS HP QuickDrop app, and *b*r an iDS device (phone or tablet) running iDS 12 or higher with the iDS HP QuickDrop app, and *b*r an iDS device (phone or tablet) running iDS 12 or higher with the iDS HP QuickDrop app, and *b*r an iDS device (phone or tablet) ru Software. ³² The system must be populated with dual channel memory for Intel Iris XE. Otherwise, system uses the Intel® UHD Graphic

Software. ³⁷ The system must be populated with dual channel memory for htel Vis XE. Otherwise, system uses the htel[®] UHD Graphics. ³⁷ Marage and monitory our battery's performance and condition and customize charging options with the easy-to-use HP Power Manager dashboard. ³⁸ Security lock for security sold separately. ³⁹ Micasats 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'redoing on your PC and present aslide show. Formore information: http://windows.microsoft.com/an-us/windows-B/project-wireless-screen-miracast. ³⁷ Battery is internal and not treplaceable by varianty. 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. ³⁹ HP Support Assistant: Requires Windows and Internet access. 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 EPEA1* registration according to EEE 1680. 1- 2018 EPEA1*, EPEA1* status varies by country. Visit http://www.epeat.net formore information ⁴² External power supplies, WUAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchasemay nothe blow Haldogen. ⁴³ PLS purport for download, please with the://www.hp.com/smart-support. ⁴⁴ PEA martSupport automatically collects the telemetry necessary upon initial boor of the product deliver device-level configuration data and health insights and is available preinstalled on select products, thru HP Factory Configuration Services; or it can bedownloade. Form ore information about how to enable HPS mart Support for download, please wish thtp://www.hp.com/smart-support. ⁴⁵ Decret Eage-forthemethods outlined in the Attoinal world facing m

available on PC's with Intel Wi-FFModule. ⁵⁰ HP Sure Sense is available on select HP PC s and is not available with Windows10 Home. ⁵¹ 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers. ⁵² Storage Slot 1 can support both PC le Gen 3 and Gen 4 drives. ⁵³ Requires an hel® vPro®, AMD Ryzen ™ Pro processor or Qualcomm® processor with SDBS0 or higher and requires 8 GB or more system memory. Secured Core PC functionality can be enabled from the factory. ⁵⁵ Thundeholt™ 4 and USB4[™] maximum speed of 40Gbps will be divided between the different data workstreams. ⁵⁵ HP WolfPro Security Edition (including HP Sure Click Pro and HP SureSense Pro) is available preloaded on select SKUs and, depending on the HP product purchased, includes apaid 1-year or 3-year license. The HP WolfPro Security Edition software is licensed under the license terms of the HP Wolf Security Software - End-User license Agreement (EULA) that can be found at: https://support.hp.com/us-end/document/sh_3875769-3873014-16 as that EULA is modified by the following: "7. Term. Unless otherwise term initia leer drive prusuant to the terms contained in this EULA, the license for the HP WolfPro Security Edition (Pro Security Edition for HP-Sure Click Pro) is erefetive are used 1 (a) purchase arenewal license for the HP WolfPro Security Edition for HP-Sure Click Pro) is effective upon activation and will continue for either a twelve(12) month or thity-six (36) month license term ('Initial Term'). At the end of the Initial Term you may either (a) purchase arenewal license for the HP WolfPro Security Edition for HP.com, HP Sales or an HP Channel Partne; or (b) continue using the standard versions of HP Sure Click and HP Sure Click Pro) is ended to a standard versions of HP Sure Click and HP Sure Sense at no additional cost with no future software updates or HP Support

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