HP ZBook Power 16 inch G11 Mobile Workstation PC

Step up performance. Not size

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 pro-grade components to run pro software apps for CAD, 3D concepting, modeling, rendering and more.

Pro-certified power within reach

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Power through professional workflows

Tackle your biggest projects and blaze through 3D modeling with up to an Intel® Core™ Ultra 9 CPU with optional Intel vPro®[1,2], and NVIDIA RTX™ 3000 Ada Laptop GPU.[3] Eliminate slowdowns and take-on heavy multitasking with 64GB RAM[4] and 8TB storage.[5]

Durable with a premium touch

With an all-aluminum chassis and MIL-STD 810 durability,[6] this laptop is tough enough to last with a distinctly premium touch. See more screen with a narrow bezel and get smooth motion with a 120Hz refresh rate[7] on the 2K QHD display.[3]

Connect. Communicate. Collaborate

Collaborate effectively on ZBook Power with a high quality 5MP camera[3], AI Noise Suppression software[10] to block background noises, a long-lasting battery[9], and Wi-Fi 6E[8] for a reliable internet connection.

Help protect our shared future with PCs that drive towards increasing sustainability

At HP, we care about the impact our products have on our people, communities, and the planet. That's why this device is EPEAT® Gold registered[12] and the outer box packaging is 100% sustainably sourced[13].

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Windows 11
Work without compromising on performance with Windows 11[14] combined with HP's collaboration and security technology.

Intel® Core™ Ultra Processor[1]
Unleash productivity with a new architecture that delivers power-efficient performance for complex business workloads and is purpose-built for the next era of AI software by sending the right task to the right engine at the right time.

NVIDIA® Graphics
Power through projects with up to NVIDIA RTX™ 3000 Ada Generation Laptop GPU,[3] certified for pro-apps.

Lightning-Fast Storage
Blitz through multiple tasks and ditch external drives with up to 8 TB local NVMe storage.[15]

Smart Power[16] Management
HP Smart Sense[17] intelligently optimizes your PC's thermal and power management based on your usage. Select full performance mode when completing demanding tasks to maximize performance.

Large Memory Configurations
Power through projects with up to 64 GB RAM[3] for fast editing and design.

2K QHD 120Hz Display
Get lost in the captivating definition and ultra-sharp details. The 2560 x 1600 resolution transforms your content for a remarkable viewing experience and with a 120Hz refresh rate get smooth motion for high-speed videos.[3,18,19]

HP Fast Charge
Long battery life gets you through a day of meetings without plugging in. Quickly recharge your PC with HP Fast Charge. You'll get up to 50% battery life in just 30 minutes of charging.[20]

AI Noise Suppression
Collaborate with confidence with advanced features like AI Noise Suppression[10] to suppress background noise for crisp, clear calls.

HP Wolf Security
HP Wolf Security for Business[21] requires Windows 10 or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features and OS requirement.

Wi-Fi 6E
Get a fast and reliable connection in dense wireless environments with Wi-Fi 6E.[8]

Military Standards Testing
Designed for ultimate durability, this ZBook undergoes brutal MIL-STD 810H[6] tests to help ensure this PC keeps rolling through your workday.

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Specifications Table

Available Operating Systems	Windows 11 Pro[1] Windows 11 Home[1] Windows 11 Home Single Language[1] Windows 11 Enterprise[1] Ubuntu 24.04 LTS Ubuntu 22.04 LTS FreeDOS 3.0
Processor family[2,3,4,5,12,25]	Intel® Core™ Ultra 5 processor; Intel® Core™ Ultra 7 processor; Intel® Core™ Ultra 9 processor
Available Processors[2,3,4,5,12,25]	Intel® Core™ Ultra 9 185H (Up to 3.8 GHz E-core Max Turbo frequency, up to 5.1 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 22 threads), supports Intel® vPro® Technology Intel® Core™ Ultra 7 165H (Up to 3.8 GHz E-core Max Turbo frequency, up to 5.0 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 22 threads), supports Intel® vPro® Technology Intel® Core™ Ultra 7 155H (up to 3.8 GHz E-core Max Turbo frequency, up to 4.8 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 22 threads) Intel® Core™ Ultra 5 135H (Up to 3.6 GHz E-core Max Turbo frequency, up to 4.6 GHz P-core Max Turbo frequency, 18 MB L3 cache, 4 P-cores and 8 E-cores, 18 threads), supports Intel® vPro® Technology Intel® Core™ Ultra 5 125H (up to 3.6 GHz E-core Max Turbo frequency, up to 4.5 GHz P-core Max Turbo frequency, 18 MB L3 cache, 4 P-cores and 8 E-cores, 18 threads)
Chipset	Intel® integrated SoC
Maximum memory	64 GB DDR5-5600 non-ECC SDRAM [7] Transfer rates up to 5600 MT/s.
Memory slots	2 SODIMM; supports dual channel[8,9,10,32]
Internal storage	512 GB up to 2 x 4 TB PCIe® Gen4 x4 NVMe™ M.2 2280 TLC SSD[11,52] 256 GB up to 512 GB PCIe® Gen4 x4 NVMe™ M.2 2280 TLC SED OPAL 2 SSD[7] 512 GB up to 1 TB PCIe® Gen4 x4 NVMe™ M.2 2280 SSD[11]
Display size (diagonal, metric)	40.6 cm (16")
Display[21,22,23,24]	
Available Graphics	Integrated: Intel® Arc™ Graphics Discrete: NVIDIA RTX™ 3000 Ada Generation Laptop GPU (8 GB GDDR6 dedicated) NVIDIA RTX™ 2000 Ada Generation Laptop GPU (8 GB GDDR6 dedicated) NVIDIA RTX™ 1000 Ada Generation Laptop GPU (6 GB GDDR6 dedicated) NVIDIA RTX™ 500 Ada Generation Laptop GPU (4 GB GDDR6 dedicated)
Audio	Audio by Poly Studio, dual stereo speakers, HP World Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio [45]
Memory card device	1 smart card reader (select models); 1 SD card reader (optional); Nano SIM card slot (optional)
Ports and connectors	Left side: 1 USB Type-A 5Gbps signaling rate (charging); 1 HDMI 2.1; 1 headphone/microphone combo; 1 power connector; 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1) ; Right side: 1 USB Type-A 5Gbps signaling rate; 1 RJ-45; 1 SD 4.0 card reader; 1 nano security lock slot[6,55,56]

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Specifications Table

Keyboard	HP Premium Quiet Keyboard, spill-resistant, full-size, backlit, keyboard with a Programmable Key and numeric keypad
Mouse	ClickPad Mylar with multi-touch gesture support, taps enabled as default; Microsoft Precision Touchpad with gesture support
Communications	LAN: Intel® I219-LM GbE; Intel® I219-LM GbE, vPro®; Intel® I219-V GbE, non-vPro®[12]; WLAN: Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card, vPro®; Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card, non-vPro®[13]; WWAN: HP 4000 4G LTE Advanced Pro[10]; LPWAN: Qualcomm® 9205 LTE Cat-M1 Modem (no internet)[27]
Camera	FHD camera; 5 MP IR camera[17,18]
Software	Adobe offer[51]; Bing search for IE11; Buy Microsoft Office (sold separately); HP Connection Optimizer[36]; HP Easy Clean[44]; HP Easy Clean Keyboard Driver; Hotkey support; HP MAC Address Manager; HP Notifications; HP PC Hardware Diagnostics UEFI; HP PC Hardware Diagnostics Windows; HP Power Manager[31]; HP Privacy Settings; myHP[34]; HP Smart Support[14]; HP Support Assistant[35]; HSA Fusion for Commercial; Copilot in Windows with Copilot key[39]; Poly Lens; Battery Health Manager[60]
Security management	HP Client Security Manager[33]; HP Sure Admin; HP Sure Click[19]; HP Sure Recover Gen6[49]; HP Sure Run Gen5[43]; HP Sure Sense[50]; HP Sure Start Gen7[38]; HP Tamper Lock[46]; Secured-Core PC Enable; Windows Hello Enhanced SIgn-in Security (ESS) Enable
Management features	HP Client Catalog (download); HP Client Management Script Library (download); HP Cloud Recovery; HP Connect for Microsoft Endpoint Manager; HP Driver Packs (download); HP Image Assistant Gen5 (download); HP Manageability Integration Kit (download)[30]; HP Patch Assistant (download)[28]
Power	150 W Slim Smart external AC power adapter[20]
Battery type	HP Long Life 6-cell, 83 Wh Li-ion polymer[37,40]
Battery life	Up to 13 hours[54]
Dimensions	35.94 x 25.1 x 2.29 cm; (Dimensions vary by configuration); 552 x 69 x 345 mm (Package)
Weight	Starting at 2.12 kg; (Weight varies by configuration and components.)
Ecolabels	EPEAT® registered configurations available[41]
Energy star certified	ENERGY STAR® certified
Sustainable impact specifications	Low halogen; Bulk packaging available; External power supply 90% efficiency; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable; 60% post-consumer recycled plastic[42,47,48]

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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/or naming is not a measurement of higher performance. Optional feature that must be configured at purchase.

[2] Intel vPro® requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or Wi-Fi 6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vPro® Essentials and Enterprise vary. See http://intel.com/vpro.

[3] Optional feature that must be configured at purchase

[4] Up to 64GB memory is an optional, configurable feature.

[5] For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB of system disk (for Windows) is reserved for system recovery software. Optional feature that must be configured at purchase.

[6] 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.

[7] All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

[8] Wi-Fi 6E is an optional feature that must be configured at purchase. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. Available in countries where Wi-Fi 6E is supported.

[9] Battery life will 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 MobileMark25 battery benchmark https://bapco.com/products/mobilemark-2018/https://bapco.com/products/mobilemark-25/ for additional details.

[10] AI Noise Suppression is delivered automatically through Windows update or can be downloaded from https://support.hp.com/us-en/drivers. Requires Windows 10 or higher, compatible with internal PC speakers, microphone and analog headsets. The AI Noise Suppression setting can be configured through the Application HP Audio Control.

[12] Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information.

[14] 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 is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply, and additional requirements may apply over time for updates. See http://www.windows.com .

[15] Optional feature that must be configured at purchase. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB of system disk (for Windows) is reserved for system recovery software. Optional feature that must be configured at purchase.

[16] HP Power Manager requires Windows 10 and higher can be downloaded from the Microsoft store.

[17] HP Smart Sense requires Windows 10 or higher and Intel processors.

[18] Quad high-definition (QHD) content is required to view QHD images.

[19] All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

[20] Recharges your 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.

[21] HP Wolf Security for Business requires Windows 10 or 11 Pro or higher, includes various HP security features and is available on HP Pro, Elite and Workstation products. See product details for included security features.

provided thru Windows Update and will check entitlement on each hardware device to determine if an HP TechPulse-enabled service has been purchased and, will download applicable software automatically. To disable this feature, please follow the instructions at http://www.hpdaas.com/requirements. The HP Insights agent is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access with connection to portal is required. For full system requirements, please visit http://www.hpdaas.com/requirements.

[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® Iris® Xᵉ Graphics capabilities require system to be configured with Intel® Core™ i5 or i7 processors and dual channel memory. Intel® Iris® Xᵉ Graphics with Intel® Core™ i5 or 7 processors and single channel memory will only function as UHD graphics.

[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] 150 W power adapter is only available with discrete graphic options.

[21] QHD content required to view QHD images.

[22] HP Sure View Reflect integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.

[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] Intel vPro® requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or Wi-Fi 6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vPro® Essentials and Enterprise vary. See http://intel.com/vpro .

[26] HP Connect for Microsoft Endpoint Manager is available from the Azure Market Place for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Endpoint Manager. Subscription to Microsoft Endpoint Manager required and sold separately. Network connection required.

[27] Cat M1 LPWAN (Mobile Narrowband) cards support select platforms with the HP Protect & Trace with Wolf Connect service, but do not support mobile broadband/Internet use.

[28] HP Patch Assistant available on select HP PCs with the HP Manageability Kit that are managed through Microsoft System Center Configuration Manager. HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html .

[29] HP Sure Admin requires Windows 10 or higher, HP BIOS, HP Manageability Integration Kit from http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.

[30] HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html .

[31] HP Power Manager requires Windows 10 and higher and can be downloaded from the Microsoft Store.

[32] 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.

[33] HP Client Security Manager Gen7 requires Windows and is available on the select HP Elite and Pro PCs.

[34] myHP requires Windows OS.

[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 is available on select HP PCs and requires Windows 10 and higher.

[39] Requires Windows 11 and an NPU. Timing of feature delivery and availability varies by market and device. Requires Microsoft account to log in. Where Copilot in Windows is not available, the Copilot key will lead to the Bing search engine. See http://aka.ms/WindowsAIFeatures .

[40] For new batteries, actual battery Watt-hours (Wh) may differ from the design capacity and may have a full charge capacity that differs by up to 10, which is typical for lithium-ion batteries. Battery capacity naturally decreases over time and with use, depending on several factors such as battery health management settings, shelf life, temperature, environment, loaded apps, features, system configuration, and power settings.

[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.

[43] HP Sure Run is available on select HP PCs and requires Windows 10 and higher.

[44] HP Easy Clean requires Windows 10 RS3 and higher and will disable the keyboard, touchscreen, and clickpad only. Ports are not disabled. See user guide for cleaning instructions.

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

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

[47] Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.

[48] 100% outer box packaging made from sustainably sourced certified and recycled fibers. Fiber cushions made from 100% recycled wood fiber and organic material. Any plastic cushions are made from >90% recycled plastic.

[49] HP Sure Recover Gen6 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 with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS.

[51] Click on Adobe icon in the start menu to take advantage of a 30 day trial membership of select Adobe software. The software is tied to the device and is not transferrable. You may also choose to enter your payment details to auto-renew and continue to use the software beyond the 30 day trial. See Adobe for complete details.

[52] Storage Slot 1 can support both PCIe Gen3 and Gen4 drives.

[54] Battery life will 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 MobileMark25 battery benchmark https://bapco.com/products/mobilemark-2018/ for additional details.

[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.

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 is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com .

[2] Multi-Core 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. (AMD's numbering is not a measurement of clock speed. Qualcomm's numbering is not a measurement of clock speed.)

[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] Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third party software may have specific configuration or compatibility requirements. Performance varies by use, configuration, and other factors.

[13] Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, and Windows 10 to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported.

[14] HP Smart Support requires the HP Insights agent to be installed. For Gen 9 and earlier HP commercial devices, customer must manually download at hp.com/active-care or by providing consent at the time of your hardware's first boot, which enables HP to install the HP Insights Agent to collect information related to the Device. For HP commercial Gen 10 and higher devices, HP Services Scan is

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