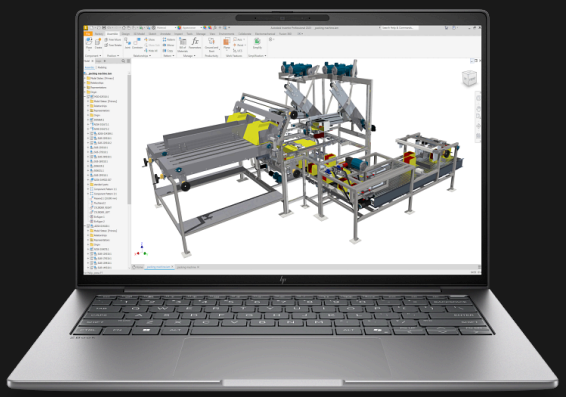
HP ZBook 8 G2a 14 inch Mobile Workstation PC

Uplevel to mobile pro performance.



Accomplish more anywhere[1]. The HP ZBook 8 introduces top performers to AI workstation power in a slim, light design to stay productive on demanding tasks like 3D modeling, design reviews, and architectural layouts – wherever your work takes you.

Mobile performance. Upgraded.

Bring your biggest idea to life faster. With a next-gen AMD Ryzen™ AI 9 HX PRO 470 processor with Copilot+ NPU[2] and integrated Radeon™ unified memory graphics, and up to 64GB of RAM[3], the HP ZBook 8 delivers reliable pro app performance.

Ready to work. Anywhere.

Take your work with you in a thin and light laptop with up to 17.8 hours battery life[4]. Dual cooling fans allow you to stay productive without overheating, plus reliable Wi-Fi 7 and optional 5G with HP Go connectivity[5] helps you stay connected wherever you are.

Unleash Local AI Power on ZBook 8

Save time for your best work with local AI on the HP ZBook 8—a powerful Copilot+ PC. Offload and run AI productivity tasks locally on up to a 55 TOPS NPU[2] while also tackling demanding AI-enhanced professional workflows.

Built for a better tomorrow

HP is innovating with purpose to drive impactful, lasting change. This device is ENERGY STAR® certified, EPEAT Gold[6] registered and has attained EPEAT Climate+. Its cover and keycaps are crafted with 50% recycled aluminum and 50% recycled plastics[7].

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HP Recommends Windows 11 Pro for business with Microsoft Copilot

Work anywhere without compromising performance with Windows 11 and HP collaboration, security, and connectivity technology. Summarize and rewrite content, get relevant content recommendations, and stay organized with Microsoft Copilot.[8,9]

AMD Ryzen™ AI PRO processor

Unleash power-efficient performance with an AMD Ryzen™ AI PRO 400-series processor. This CPU unlocks new levels of performance for the next era of AI-enhanced software and greatly increases efficiency for productivity tasks.[2]

Large Memory Configurations

Power through projects with up to 64 GB RAM for fast editing and design.[10]

Lightning-fast Storage

Blitz through multiple tasks with up to 2 TB local NVMe storage.[11]

HP Smart Sense

HP Smart Sense intelligently optimizes your PC's thermal and power management based on your usage. Select full performance mode when completing demanding tasks to maximize performance.[12]

AI Noise Reduction

Collaborate with confidence with advanced features like AI Noise Reduction to suppress background noise for crisp, clear calls.

HP Sure View 6

Work confidently in public with HP Sure View 6 - screen privacy technology that's activated with one keystroke. Sure View reduces visual light to make your screen unreadable when viewed from the side to keep your information private anywhere.[13]

HP DreamColor Display

Have confidence in what you see on screen with an optional HP DreamColor Display with 100% DCI-P3 color gamut and a 120Hz refresh rate you get smooth motion for high-speed videos.[14,15]

Network Connectivity

Stay connected from nearly anywhere with support for various network connectivity options. Choose up to Wi-Fi 7 and optional 5G with HP Go for a fast and reliable wireless connection or with the all new RJ-45 get a smooth wired Internet experience.[5,16,20]

Poly Camera Pro

Look your best on video calls and save some power too. Manage your video controls for internal and external cameras with Poly Camera Pro. Now Auto Frame, Spotlight, Background Blur, and virtual backgrounds save power running on the NPU.[17]

Protected by HP Wolf Security

HP Wolf Security for Business includes built-in, hardware-enforced, always-on protection designed for business-oriented Workstations.[18]

Workforce Experience Platform (WXP)

The HP Workforce Experience Platform (WXP) empowers IT teams with AI-powered insights and workflow automation, reducing digital friction to increase employee satisfaction.[19]

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Specifications Table

Available Operating Systems	Windows 11 Pro[1] Windows 11 Home Single Language – HP recommends Windows 11 Pro for business[1] Windows 11 Home – HP recommends Windows 11 Pro for business[1] Windows 11 Pro (Windows 11 Enterprise available with a Volume Licensing Agreement)[1] FreeDOS Ubuntu 24.04 LTS[2]
Processor family[51,6]	AMD Ryzen™ AI 7 PRO processor; AMD Ryzen™ AI 5 PRO processor; AMD Ryzen™ AI 7 processor; AMD Ryzen™ AI 9 HX PRO processor
Available Processors[51,3,4,5,6]	AMD Ryzen™ AI 9 HX PRO 470 (up to 5.2 GHz max boost clock, 24 MB L3 cache, 12 cores, 24 threads) with AMD Radeon™ 890M Graphics and AMD Ryzen™ AI (55 NPU TOPS) AMD Ryzen™ AI 7 PRO 450 (up to 5.1 GHz max boost clock, 16 MB L3 cache, 8 cores, 16 threads) with AMD Radeon™ 860M Graphics and AMD Ryzen™ AI (50 NPU TOPS) AMD Ryzen™ AI 5 PRO 440 (up to 4.8 GHz max boost clock, 16 MB L3 cache, 6 cores, 12 threads) with AMD Radeon™ 840M Graphics and AMD Ryzen™ AI (50 NPU TOPS) AMD Ryzen™ AI 5 435 (up to 4.5 GHz max boost clock, 8 MB L3 cache, 6 cores, 12 threads) with AMD Radeon™ 840M Graphics and AMD Ryzen™ AI (50 NPU TOPS) AMD Ryzen™ AI 7 450 (up to 5.10 GHz max boost block, 16 MB L3 cache, 8 cores, 18 threads) with AMD Radeon™ 860M Graphics and AMD Ryzen AI™ (50 NPU TOPS)
Neural Processing Unit	AMD Ryzen™ AI
Product colour	Meteor silver
Maximum memory	64 GB DDR5-5600 MT/s non-ECC Transfer rates up to 5600 MT/s.
Memory slots	2 SODIMM
Internal storage	512 GB up to 2 TB PCIe® Gen5 NVMe™ M.2 SSD[11] 256 GB up to 1 TB PCIe® Gen5 NVMe™ Performance M.2 SED SSD[11] 256 GB up to 512 GB PCIe® NVMe™ M.2 SSD[11]
Maximum storage capacity	Up to 2 TB
Display size (diagonal, metric)	35.6 cm (14")
Available Displays (Metric)	35.6 cm (14") diagonal, WQXGA (2560 x 1600), 120 Hz, anti-glare, 500 nits, 100% DCI-P3, HP DreamColor 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, Low Blue Light, 800 nits, sRGB 100%, HP Sure View 6 integrated privacy screen 35.6 cm (14") diagonal, 2.5K (2560 x 1600), IPS, anti-glare, Low Blue Light, 400 nits, AD-100 35.6 cm (14") diagonal, WUXGA (1920 x 1200), 60 Hz, IPS, anti-glare, 300 nits, sRGB 62.5% 35.6 cm (14") diagonal, WUXGA (1920 x 1200), 60 Hz, IPS, anti-glare, Low Blue Light, 400 nits, sRGB 100% 35.6 cm (14") diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, Low Blue Light, 800 nits, sRGB 100%, HP Sure View 6 integrated privacy screen 35.6 cm (14") diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 400 nits, sRGB 62.5%
Available Graphics	Integrated: AMD Radeon™ 890M Graphics AMD Radeon™ 860M Graphics AMD Radeon™ 840M Graphics[20,21,23]
Audio	Audio by Poly Studio, 2 integrated stereo speakers (1W/8 ohm per speaker), discrete amplifiers, 2 integrated dual array digital microphones
Memory card device	1 smart card reader (select models); Nano SIM card slot (optional)
Ports and connectors	Left side: 1 HDMI 2.1; 1 3.5 mm audio combo jack; 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1)[12,13,14] ; Right side: 1 USB Type-A 5Gbps signaling rate; 1 RJ-45; 1 nano security lock slot; 1 USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4)

HP ZBook 8 G2a 14 inch Mobile Workstation PC

Specifications Table

Keyboard	HP Premium Keyboard – spill-resistant, full-size, backlit keyboard with DuraKeys; HP Premium Privacy Keyboard – spill-resistant, full-size, backlit keyboard with DuraKeys
Mouse	Clickpad with multi-touch gesture support; Microsoft Precision Touchpad with gesture support
Communications	LAN: Realtek RTL8111EPP 1 GbE Ethernet Controller; WLAN: MediaTek Wi-Fi 6E RZ616 (2x2) and Bluetooth® 5.3 wireless card; MediaTek Wi-Fi 7 MT7925 (2x2) and Bluetooth® 6.0 wireless card[16,17]; WWAN: HP R15 5G Solution; HP R15 5G Go Solution[15,18,49]; LPWAN: HP RW220-GL LTE (Low Power) (CAT-1bis)[19] NFC Mirage WNC XRAV-1
Camera	5 MP camera; 5 MP IR camera
Software	Buy Microsoft Office (sold separately); Copilot in Windows with Copilot key[54,61]; HP Connection Optimizer[59]; HP Hotkey support; HP MAC Address Manager; HP Notifications; HP UEFI BIOS Certification Level 2.9; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Services Scan[40]; HP Smart Support[55]; HP Support Assistant[57]; HP App[36]; HSA Fusion for Commercial; HSA Telemetry for Commercial; Poly Camera Pro; Poly Lens[58]; Edge Customization; Data Science Stack; Ubuntu Data Science Stack
Security management	HP Tamper Lock (select models) HP Sure View Reflect[35] ; HP Wolf Security for Business includes: HP Sure Start, HP Secure Erase[32,22]; HP Sure Click[34]; HP Sure Recover[30]; HP Sure Run[31]; HP Sure Sense[42]; Secured-Core PC Enable[33]; Windows Hello Enhanced SIgn-in Security (ESS) Enable[25]; Absolute Persistence Module[60]; HP BIOS Recovery[25]; HP Sure Admin[29]; BIOS Update via Network; HP BIOSphere[44]; HP DriveLock and Automatic DriveLock; HP Wake on WLAN; Audio Permanent Disable; TPM 2.0 Embedded Security Chip (Common Criteria EAL4+ Certified) (FIPS 140-2 Level 2 Certified)
Security Software Licenses	HP Wolf Pro Security Edition[56]
Fingerprint reader	Fingerprint reader in power button (select models)
Management features	HP Client Catalog (download)[9]; HP Client Management Script Library (download)[10]; HP Cloud Recovery[26]; HP Patch Assistant (download); HP Image Assistant (download)[38]; HP Manageability Integration Kit (download)[27]; HP Power Manager with Battery Health Manager (download)[53]; HP Driver Packs (download); HP Connect for Microsoft Endpoint Manager
Power	HP 140 W Slim External AC USB Type-C® power adapter; HP 100 W wall mount USB Type-C® GaN power adapter; HP 65 W USB Type-C® GaN power adapter
Battery type	HP Long Life 3 cell, 68 Wh Polymer[41]
Battery recharge time	Supports battery HP fast charge: approximately 50% in 30 minutes[43]
Dimensions	31.6 x 22.2 x 1.9 cm; (Dimensions vary by configuration)
Weight	Starting at 1.46 kg; (Weight varies by configuration and components.)
Ecolabels	EPEAT Gold with Climate+[64]
Energy star certified	ENERGY STAR® certified
Sustainable impact specifications	Molded paper pulp cushion inside box is made of 100% recycled or certified sources; Outside box and corrugated cushions are 100% from certified or recycled sources and recyclable; At least 60% post-consumer recycled plastic; Low halogen; Bulk packaging available; External power supply 90% efficiency[45,46,47,48,50]

HP ZBook 8 G2a 14 inch Mobile Workstation PC

Messaging Footnotes

[1] Compared to HP ZBook G1a.
[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. AMD's numbering, branding, and/or naming is not a measurement of higher performance. Optional feature that must be configured at purchase. Features and software that require an 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.
[3] Memory is an optional feature that must be configured at purchase.
[4] Based on preliminary engineering estimates and the comparison between ZBook 8 G1i with a 62Whr and ZBook 8 G2i with a 68Whr. 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 MobileMark30 battery benchmark.
[5] Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows 11 OS, compatible processor, and separately purchased Wi-Fi 7 router to support backwards compatibility with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported. The specification for 802.11BE is a draft specification and is not final. If the final specification differs from the draft specification, it may affect the ability of the device to communicate with other 802.11BE devices. Wi-Fi® supporting gigabit data rate is achievable with Wi-Fi 7 (802.11BE) when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 160MHz channels. Available on select configurations.
[6] Applies to HP PCs, Workstations and Displays manufactured after January 2019. Based on most Gold and Silver EPEAT® registrations by meeting all required criteria and achieving 50-74% of the optional points for EPEAT® Silver and 75-100% of the optional points for EPEAT® Gold according to IEEE 1680.1-2018 EPEAT®. EPEAT tier levels may vary by country. See www.epeat.net for registration status and tier levels by country.
[7] Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT standard for computers, IEEE 1680.1-2018 standard.
[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 11 is automatically updated, which is always 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 .
[9] Microsoft Copilot requires Windows 11. Some features require an NPU. Timing and availability will be dependent on Microsoft and varies by market and device. Requires Microsoft account to log in. Where Copilot is not available, the Copilot key will lead to the Bing search engine. See http://aka.ms/WindowsAIFeatures .
[10] Optional feature that must be configured at purchase.
[11] 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.
[12] HP Smart Sense requires Windows 10 or higher.
[13] Optional feature.
[14] Color accurate HP DreamColor display is an optional feature that must be configured at purchase.
[15] All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
[16] Intel® 5G module is optional and must be configured at the factory. Module designed for 5G NR NSA (non-standalone) networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier supported.
[17] Requires Windows OS.
[18] HP Wolf Security for Business requires Windows 10 or 11 Pro and higher, includes various HP security features and is available on HP Pro, Elite, Workstation, and RPOS products. See product details for included security features.
[19] HP Insights agent for Windows, Mac, & Android. WXP is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Activation and restrictions may apply. Select HP solutions require an HP Insights agent for Windows, Mac, & Android, available for download at https://workforceexperience.hp.com/software . For full system requirements and services that require the agent, please visit https://workforceexperience.hp.com/requirements . The agent collects telemetry and analytics around devices and applications that integrate into the Workforce Experience Platform. Internet access required. WXP Collaboration license required for audio and video collaboration technology monitoring. HP Anyware license or compatible third-party virtual machine license required for virtual machine monitoring. WXP Print Management capabilities are available to select beta customers in the US only. WXP Print Management is planned to be available in a future release in various tiers as an add-on solution in various term licenses.
[20] Intel® 5G module is optional and must be configured at the factory. Module designed for 5G NR NSA (non-standalone) networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier supported. *HP 5G module is optional and must be configured at the factory. Module designed for 5G NR NSA (non-standalone) networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier supported. HP Go is available as a separate subscription in North America, requires 5G and must be configured at the time of purchase on select HP commercial laptops and workstations.

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 11 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] Not all features are available in all editions or versions of Ubuntu. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS to take full advantage of Ubuntu functionality. Ubuntu may be automatically updated. ISP fees may apply and additional requirements may apply over time for updates.
[3] Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.
[4] AMD Max Burst frequency performance varies depending on hardware, software and overall system configuration.
[5] Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
[6] 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. Potential NPU inferencing performance varies by use, configuration, and other factors.
[7] Availability may vary by country.
[8] 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.
[9] HP Client Catalog not preinstalled, however available for download at https://www.hp.com/us-en/solutions/client-management-solutions.html .
[10] HP Client Management Script Library https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools .
[11] For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 32 GB is reserved for system recovery software.
[12] Maximum speed requires DisplayPort™ and PCIe aggregation.
[13] HDMI cable sold separately.
[14] SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.
[15] HP 5G module is optional and must be configured at the factory. Module designed for 5G NR NSA (non-standalone) networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier supported.
[16] Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows OS, select processor, and a Wi-Fi 7 router, sold separately. Wi-Fi 7 is backwards compatible with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported. The specification for 802.11BE is a draft specification and is not final. If the final specification differs from the draft specification, it may affect the ability of the device to communicate with other 802.11BE devices.
[17] 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. And available in countries where Wi-Fi 6E is supported. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.
[18] WWAN is an optional feature and requires factory configuration and 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.
[19] LPWAN (also called Mobile Narrowband) supports HP Protect & Trace with Wolf Connect service through the subscription term, but does not support mobile broadband use.
[20] AMD Radeon™ Graphics on this product comes standard with the AMD Pro Graphics driver.
[21] Support HD decode, DX12, HDMI 1.4, HDCP 2.2 via DP up to 4K @ 60Hz and via HDMI up to 4K @ 30Hz.
[22] HP Secure Erase implements the methods outlined in the National Institute of Standards and Technology Special Publication 800-88r ""Clear"" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.
[23] Shared video memory (UMA) uses part of the total system memory for video performance. System memory dedicated to video performance is not available for other use by other programs.
[24] HD content required to view HD images.
[25] 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.
[26] HP Cloud Recovery is available for Z by HP, HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, 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
[27] HP Manageability Integration Kit not presintalled, however available for downloaded from https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools .
[28] 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.
[29] HP Sure Admin requires HP G8 or newer platforms, Windows 10 or higher, HP BIOS, HP Manageability Kit or KMS Service from http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.
[30] HP Sure Recover is available on select HP PCs and requires Windows 10 or 11 and an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data. HP Sure Recover Gen6 with Embedded Reimaging is an optional feature on select HP PCs which requires Windows 10 or 11 must be configured at purchase. You must back up important files, data, photos, videos, etc. before use to avoid loss of data.
[31] HP Sure Run is available on select HP PCs and requires Windows 10 and higher.
[32] HP Sure Start is available on select HP PCs and requires Windows 10 and higher.
[33] Secured-Core PC Enable 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 is enabled from the factory.
[34] HP Sure Click requires Windows 10 Pro or higher or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.
[35] HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.
[36] HP App requires Windows OS.
[37] Resolutions are dependent upon monitor capability, and resolution and color depth settings.
[38] HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement .
[39] HP Tamper Lock is an optional feature that must be configured at the factory and requires a supervisor password be established prior to use.
[40] HP Services Scan is provided with Windows Update on select products 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. HP TechPulse is a telemetry and analytics platform that provides critical data around devices and applications. For full system requirements or to disable this feature, please visit http://www.hpdaas.com/requirements . Not applicable in China.
[41] 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.
[42] HP Sure Sense requires Windows 10 and higher. See product specifications for availability. On units with WWAN shipping to China, HP Sure Sense is only available via Softpaq download.
[43] Recharges up to 50% within 30 minutes when the system is off or in standby mode when used with the power adapter provided with the notebook. Power adapter minimum of 65 watts required for battery capacities 56Whr or less. Power adapter minimum of 100 watts required for battery capacities greater than 56Whr and less than 83Whr. Power adapter minimum of 120 watts required for battery capacities greater than 83Whr and less than 100Whr. After charging has reached 90% capacity, charging speed will return to normal. Charging time may vary +/-10% due to System tolerance.
[44] HP BIOSphere features may vary depending on the platform and configuration.
[45] Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams.
[46] Recycled plastic is expressed as a percentage of the total weight plastic. Recycled content is based on the definition set in the EPEAT criteria.
[47] Fiber used in paper-based packaging is sourced from certified or recycled sources per HP's Paper Sourcing Policy; certifications such as FSC® apply at the supplier level. Packaging parts contain certified or recycled fibers and are typically recycled in your local paper/carton recycling bin, consult your local guidelines.
[48] Ocean Bound plastic is based on the definition set by the UL2809 standard.
[49] Select SKUs of HP Commercial PC and workstations are configured for HP Go activation. HP Go service plan sold separately.
[50] External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.
[51] 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. AMD's numbering is not a measurement of clock speed.
[52] HP Image Assistant not preinstalled, however available for download at https://ftp.ext.hp.com/pub/caps-softpaq/cmit/HPIA.html .
[53] HP Power Manager with Battery Health can be downloaded by entering your system information here: https://support.hp.com/in-en/document/ish_4449597-3519507-16 .
[54] Copilot+ in Windows requires Windows 11. Some features require an NPU. Timing of feature delivery and availability varies by market and device. Requires Microsoft account to log in. Where Microsoft in Windows is not available, the Copilot key will lead to the Bing search engine. See aka.ms/copilotpluspcs .
[55] HP Smart Support requires the HP Insights agent to be installed. For more information about how to enable or to download HP Smart Support, please visit http://www.hp.com/smart-support .
[56] 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, RPOS and Workstation products. See product details for included security features.
[57] HP Support Assistant is available on Windows. For more information, please visit www.support.hp.com/help/hp-support-assistant .
[58] Poly Lens Desktop requires a Windows OS.
[59] HP Connection Optimizer requires Windows 10 and Windows 11.
[60] Absolute Persistence firmware module is shipped turned off and can only be activated with the purchase a license subscription and full activation of the software agent. License subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. Certain conditions apply. For full details visit: https://www.absolute.com/about/legal/agreements/absolute/ .
[61] May require Windows Update or app download from the Microsoft Store. Microsoft Copilot is NOT available in China, Russia, Belarus, and embargoed regions Cuba, Iran, North Korea, Crimea.

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