

HP EliteBook 8 G2a 14-inch Notebook Next Gen AI PC

HP EliteBook 8 G2a 16-inch Notebook Next Gen AI PC



Key Experiences and Product Spec



The gold standard trusted by business, preferred by IT.

Key Product Experiences

- **AI-efficiency, speed, and power—all in a travel-ready PC:** Analyze and create with fast local AI capabilities³ as you multitask on-the-go. The HP EliteBook 8 G2a—a highly secure HP Copilot+ PC⁴ delivers profound performance, long battery life, and scales effortlessly into IT infrastructures.
- **Lightning-fast local AI performance for demanding workflows.:** Work confidently with reliable, AI-enhanced productivity³ wherever work takes you on the HP EliteBook 8 G2a—featuring an AMD Ryzen™ AI processor² and up to 50 TOPS NPU³ for AI-enhanced speed, smart automation, and seamless multitasking.
- **Cool and quietly powerful. Boldly premium mobile design:** Enjoy meetings, calls, and deep work without distraction from fan noise. HP Smart Sense⁵ and advanced thermal design keeps things cool and quiet, while enterprise-focused design brings premium comfort and effortless mobility to your day.
- **Stay connected with HP Go:** Discover HP Go⁵³, the easy to set up 5G cellular solution¹² for your PC. Enjoy seamless, out-of-the-box connectivity for effortless communication, collaboration, and creativity that utilizes the strongest stable connection available.
- **Help protect our shared future:** The HP EliteBook 8 G2a AI PC is designed using at least 90% recycled magnesium in the outer covers (WWAN)⁷, at least 50% post-consumer recycled plastic in the keycaps⁸, and the outer box packaging is 100% sustainably sourced or recycled.⁹
- **Protected by HP Wolf Security:** HP Wolf Security for Business creates a hardware-enforced defense. It detects and self-heals BIOS attacks and helps fight ransomware and phishing attacks. It's a future-ready investment in protection against quantum computing attacks.²

Product Specs:

Operating System	Windows 11 Pro ¹³
Processor(s)	AMD® Ryzen™ 5 non-Pro/Pro ² AMD® Ryzen™ 7 Pro/non-Pro ² (NPU up to 50 TOPS) ³
Graphics	Integrated: AMD Radeon™ Graphics
Memory	16GB/24GB/32GB/48GB/64GB DDR5-5600 MT/s 16GB/32GB/48GB/64GB DDR5X-8533 MT/s
Internal Storage	256GB up to 1TB PCIe® Gen4 NVMe™ M.2 SSD Value ¹⁵ 256GB PCIe® Gen4 NVMe™ M.2 SED OPAL2 SSD Value ¹⁵ 512GB up to 2TB PCIe® Gen5 NVMe™ M.2 SSD Value ¹⁵ 512GB PCIe® Gen5 NVMe™ M.2 SED OPAL2 SSD Value ¹⁵ 1TB PCIe® Gen5x4 NVMe™ M.2 SED OPAL2 SSD
Display	<p>14”:</p> <p>14" diagonal 2.5K (2560 x 1600), 120Hz (VRR), UWVA, Anti-Glare, WLED + Low Blue Light, 400 nits, DCI-P3 100% + Adobe 100%, LCD Panel (NeoOled);</p> <p>14" diagonal, WUXGA (1920 x 1200), UWVA, Anti-Glare, WLED, 300 nits, sRGB 62.5%, low power, LCD Panel;⁴⁶</p> <p>14" diagonal, WUXGA (1920 x 1200), UWVA, Anti-Glare, OLED + Low Blue Light, 300 nits, DCI-P3 95%, OLED Panel;⁴⁶</p> <p>14" diagonal, WUXGA (1920 x 1200), touch¹¹, UWVA, Anti-Glare, WLED, 300 nits, sRGB 62.5%, low power, LCD Panel;⁴⁶</p> <p>14" diagonal, WUXGA (1920 x 1200), UWVA, Anti-Glare, WLED + Low Blue Light, 400 nits, sRGB 100%, low power, LCD Panel;⁴⁶</p> <p>14" diagonal, WUXGA (1920 x 1200), UWVA, Anti-Glare, Low Blue Light, 800 nits, sRGB 100%, Sure View 6¹⁶ LCD Panel⁴⁶</p> <p>14" diagonal, WUXGA (1920 x 1200), touch¹¹, UWVA, Anti-Glare, Low Blue Light, 800 nits, sRGB 100%, Sure View 6¹⁶ LCD Panel⁴⁶</p> <p>14" diagonal, WUXGA (1920 x 1200), touch+¹¹, UWVA, BrightView, Low Blue Light, 800 nits, sRGB 100%, Sure View 6¹⁶ LCD Panel⁴⁶</p> <p>16”:</p> <p>16" diagonal 2.5K (2560 x 1600), 120Hz (VRR), UWVA, Anti-Glare, WLED + Low Blue Light, 400 nits, DCI-P3 100% + Adobe 100%, LCD Panel (NeoOled);</p> <p>16" diagonal, WUXGA (1920 x 1200), UWVA, Anti-Glare, WLED, 300 nits, sRGB 62.5%, LCD Panel;⁴⁶</p> <p>16" diagonal, WUXGA (1920 x 1200), UWVA, Anti-Glare, OLED + Low Blue Light, 300 nits, DCI-P3 95%, OLED Panel;⁴⁶</p> <p>16" diagonal, WUXGA (1920 x 1200), touch¹¹, UWVA, Anti-Glare, WLED, 300 nits, sRGB 62.5%, LCD Panel;⁴⁶</p> <p>16" diagonal, WUXGA (1920 x 1200), UWVA, Anti-Glare, WLED + Low Blue Light, 400 nits, sRGB 100%, low power, LCD Panel;⁴⁶</p> <p>16" diagonal, WUXGA (1920 x 1200), UWVA, Anti-Glare, Low Blue Light, 800 nits, sRGB 100%, Sure View 6¹⁶ LCD Panel⁴⁶</p>
Webcam	5MP HDR camera; 5MP HDR camera with Image Signal Processing (ISP) and AI Presence Detection + IR ¹⁸
Audio	Audio by Poly Studio ²⁸ , dual stereo speakers with discrete amplifiers, dual microphones enhanced by AI noise reduction

Input Devices	HP Premium Keyboard - spill-resistant with optional backlit keyboard and Durakeys; Integrated Power Button and Programmable key; Larger clickpad with multi-touch gesture support, Microsoft Precision clickpad
Input/Connectivity	Right side: 1 x USB Type-C® 10Gbps signaling rate ¹⁷ (USB Power Delivery, DisplayPort™ 1.4); 1 x USB Type-A 5Gbps signaling rate ¹⁷ (Powered); 1 x Security lock slot; 1 x Nano SIM card slot (optional); Left side: 2 x Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate ¹⁷ (USB Power Delivery, DisplayPort™ 2.1); 1 x HDMI 2.2 ⁰ ; 1 x headphone/mic combo jack; 1 x Smartcard reader (optional). 14" & 16" only: Optional RJ-45 ^{17,47}
Wireless technology	Mediatek RZ616 Wi-Fi 6E ⁵⁹ and Bluetooth® 5.3 AIM-T wireless card; card; Mediatek MT7925 Wi-Fi 7 ⁶⁰ and Bluetooth® 6 AIM-T wireless card Optional: HP Module with NXP NFC Controller NPC300 I2C NCI; Becks RW220-GL LTE (Low Power) (CAT-1bis); HP R15 5G Solution HP GO 2.0 ^{52,53}
Power	HP 100W Wall Mount USB Type-C® GaN Halogen Free AC power adapter ¹⁸ HP 65W Wall Mount USB Type-C® GaN Halogen Free AC power adapter ¹⁸ HP 65W Standard USB Type-C® GaN AC power adapter ¹⁸
Weight and Dimensions	14" : Starting at 1.449 kg, 3.19lb; (Does not include power adapter.) ²⁵ 315.6 mm (W) x 222 mm (D) x 11.75 mm (front) / 15.5 mm (rear). 12.43 in (W) x 8.74 in (D) x 0.46 in (front) / 0.61 in (rear). Maximum height 18.95mm : Maximum height 0.75 in ²⁶ 16" : 1.749 kg, 3.86lb (Does not include power adapter.) ²⁵ 359 mm (W) x 250 mm (D) x 11.55 mm (front) / 15.5 mm (rear). 14.13 in (W) x 9.84 in (D) x 0.45 in (front) / 0.61 in (rear). Maximum height 21.65mm: Maximum height 0.85 in ²⁶
Color	Glacier Silver
Software	Buy Microsoft Office (Sold Separately), HP Connection Optimizer, Edge Customization, HP Hotkey Support, HP Mac Address Manager, HP Notifications, HP PC Hardware Diagnostics UEFI, HP PC Hardware Diagnostics Windows, HP Privacy Settings, HP Services Scan, HP Support Assistant, HSA Fusion for Commercial, HSA Telemetry for Commercial, HP app, Poly Camera Pro ¹² , Poly Lens, HP IQ ⁵⁶
Security & Manageability	Secured-Core PC Enable, Windows Hello Enhanced Sign-In Security (ESS), HP Wolf Security for Business ² , HP Sure Admin ³² , HP Sure Click ³⁰ , HP Sure Recover ³⁵ , HP Sure Run ⁵⁰ , HP Sure Sense ³¹ , HP Sure Start ³⁴ , HP Tamper Lock ⁴⁹ ; TPM 2.0 embedded security chip (Common Criteria EAL4+ and FIPS 140-2 Level 2 Certified); Absolute Persistence Module, Audio Permanent Disable, BIOS Update via Network, HP BIOS Recovery, HP BIOSphere, HP DriveLock & Automatic DriveLock, HP Secure Erase, HP Wake on WLAN, Optional Hardened Touch Fingerprint Sensor (FPS);
Sustainable Impact Specifications	At least 90% recycled magnesium top cover(WWAN) ⁸ [vary by configurations]; Backlit keycaps made with at least 50% recycled Post-consumer recycled CD/DVD ⁹ & non-backlit keyboards 80% Post-consumer recycled ⁹ ; At least 30% ocean-bound plastic in the speaker box and at least 70% used in the keyboard membrane ³⁹ ; Outer box packaging is 100% sustainably sourced ¹⁰ ; Low Halogen; EPEAT Climate+™ Gold 2.0 in U.S ⁵⁴ , ENERGY STAR® certified; TCO Certified; Power Consumption Measurement. ⁵⁵
Productivity and Tools	Copilot+ PC ¹ , HP IQ ⁵⁶ ; Poly Camera Pro ¹² , HP Wolf Security for Business ² , Built-in HP Endpoint Security Controller (ESC) ⁶¹ , Smart Sense ⁵⁷ , Onlooker Detection ^{43,44} with auto Sure View ⁴⁶

Disclaimers:

1. On some devices, some Copilot+ PC experiences require free updates continuing to roll out from Microsoft. Timing varies by device and region. See aka.ms/copilotpluspcs. Copilot is NOT available in China, Russia, Belarus, and embargoed regions Cuba, Iran, North Korea, Crimea.
2. 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.
3. 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.
4. 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.
5. ISV solutions are sold separately and may require a subscription and NPU.
6. Nested pen is an optional feature that must be configured at the time of purchase.
7. Actual battery life will vary with use and environmental conditions, and will naturally decrease with time and usage.
8. 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.
9. Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 EPEAT standard.
10. HP paper and fiber based packaging for PCs, displays, home and office print, and supplies is reported by suppliers as recycled or certified, with a minimum of 97% by volume verified by HP. Packaging is the box that comes with the product and all paper-based materials inside the box. Packaging for commercial print, industrial, and 3D products, scanners, personal systems accessories, and spare parts is not included.
11. Touch will reduce actual brightness
12. Poly Camera Pro requires Windows OS.
13. 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>.
14. For systems configured with more than 3 GB of memory and a 32-bit operating system, all memory may not be available due to system resource requirements. Addressing memory above 4 GB requires a 64-bit operating system. Memory modules support data transfer rates up to 2666 MT/s, 2933 MT/s or 3200 MT/s as depending on processor config; with 1 DIMM per channel. Additional DIMM loading on any channel may impact maximum memory speed. Actual data rate is determined by the system's configured ; See processor specifications for supported memory data rate.
15. For storage drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows) is reserved for system recovery software.
16. HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.
17. Actual throughput may vary
18. Optional feature must be configured at time of purchase.
19. HDMI cable sold separately.
20. HDMI 2.1 Support resolution up to 4K @60 Hz
21. 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.
24. 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.
25. Actual weight will vary by configuration.
26. Front height measurement is near the front edge where the chassis bottom cover taper begins. Back height measurement is near the back edge where the chassis bottom cover taper ends, excluding transition area to rubber feet.
27. Dimensions may vary by configuration.
28. Requires Windows OS.

29. 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.
30. HP Sure Click requires Windows 10 and higher. See https://bit.ly/2PrLT6A_SureClick for complete details.
31. HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS.
32. HP Sure Admin requires Windows 10 and HP BIOS
33. HP Client Security Manager Gen6/Gen7 requires Windows and is available on the select HP Elite and Pro PCs.
34. HP Sure Start is available on select HP PCs and requires Windows 10 Pro and higher
35. HP Sure Recover is available on select HP PCs and requires Windows 10 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. Network based recovery using Wi-Fi is only available on PCs with Wi-Fi Module.
36. HP Manageability Integration Kit can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>
37. 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
38. Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 EPEAT standard.
39. Percentage of ocean-bound plastic contained in each component varies by product. Ocean Bound plastic is expressed as a percentage of the total weight plastic. Ocean Bound plastic is based on the definition set by the UL2809 standard
40. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. See www.epeat.net for registration status and tier levels by country.
41. Power Consumption Measurement with real-time total power usage tracking will release in 2024 on our commercial notebook line. The energy consumption data is planned to be available to end users within HP app and ITDMs via HP Proactive Insights in May 2024. Fleet management within HP Proactive Insights requires Windows 10 or higher and registration for the Workforce Experience platform at <https://admin.hp.com>. Some features and capabilities may require additional purchase of HP services and/or commercial hardware capable of supporting the HP Insights agent for Windows, Mac, & Android. Activation and restrictions may apply. Select HP Workforce Solutions require an HP Insights agent for Windows, Mac, & Android, available for download at <https://admin.hp.com/software>. For full system requirements and services that require the agent, please visit <https://admin.hp.com/requirements>. The agent collects telemetry and analytics around devices and applications that integrate into the Workforce Experience platform and is not sold as a standalone service. Internet access with connection to the Workforce Experience platform is required. HP follows stringent GDPR privacy regulations, and the platform is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security.
42. Requires Windows 10 or higher. For supported HP PCs with the latest HP Endpoint Security Controller
43. Requires HP app and Windows OS.
44. Requires ISP+ camera that must be configured at purchase
45. External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.
46. All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
47. RJ-45 port must be configured at time of purchase and is not available in all regions
48. HP Connect is available at admin.hp.com for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Intune Service. Subscription to Microsoft Intune required and sold separately. Network connection required.
49. HP Tamper Lock requires a supervisor password be established prior to use.
50. HP Sure Run is available on select HP PCs and requires Windows 11.
51. 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.
52. 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.
53. HP Go integrates pre-embedded carrier profiles, pre-activation processes, and pre-configured APNs at the factory, enabling seamless out-of-the-box connectivity. Requires 5G module and Windows support for carrier profile management and network selection. US-based subscription service ONLY

54. This applies to EPEAT Registered products that meet Global Electronics Council, Sustainable Use of Resources Criteria (EPEAT-SUR-2025), January 29, 2025. Available at www.gec.org. EPEAT tier levels may vary by country. See www.epeat.net for registration status and tier levels by country. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. See www.epeat.net for registration status and tier levels by country.
55. Power Consumption Measurement with real-time total power usage tracking will release in 2024 on our commercial notebook line. The energy consumption data is planned to be available to end users within HP App and ITDMs via HP Proactive Insights in May 2024. Fleet management within HP Proactive Insights requires Windows 10 or higher and registration for the Workforce Experience platform at <https://admin.hp.com>. Some features and capabilities may require additional purchase of HP services and/or commercial hardware capable of supporting the HP Insights agent for Windows, Mac, & Android. Activation and restrictions may apply. Select HP Workforce Solutions require an HP Insights agent for Windows, Mac, & Android, available for download at <https://admin.hp.com/software>. For full system requirements and services that require the agent, please visit <https://admin.hp.com/requirements>. The agent collects telemetry and analytics around devices and applications that integrate into the Workforce Experience platform and is not sold as a standalone service. Internet access with connection to the Workforce Experience platform is required. HP follows stringent GDPR privacy regulations, and the platform is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security.
56. HP IQ delivery app is preloaded on select HP PCs; it will be automatically updated to the future featured HP IQ application if you have auto updates enabled in Windows or will be available for download from the Microsoft Store. The future featured HP IQ app uses artificial intelligence. Features vary by configuration. For complete details see https://support.hp.com/us-en/document/ish_13696672-13696717-16.
57. Smart Sense requires HP App and Windows 11 OS. Features may vary by platform.
58. Optional feature must be configured at time of purchase.
59. Wi-Fi® supporting gigabit data rate is achievable with Wi-Fi 6E (802.11ax) when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 160MHz channels.
60. 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.
61. HP Connect for Microsoft Endpoint Manager: HP Connect is available at admin.hp.com for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Intune Service. Subscription to Microsoft Intune required and sold separately. Network connection required.