HP EliteBoard G1a Next Gen AI PC

Desktop-grade power. Keyboard-sized freedom

Create a clean desk with the revolutionary HP EliteBoard G1a AI PC. A desktop PC built into a keyboard that connects to any size USB-C® display[4] for shared and dedicated workspaces, delivering relentless local AI performance for demanding workflows.

Minimalism that maximizes your workflow

An incognito desktop AI PC with dual mics and speakers all built into a sleek keyboard – designed to reclaim your desk, simplify your setup and support daisy chained dual 4K monitors[4] without the clutter and tangled wires.

Protection that starts before the threat

Keep your AI workflows private with HP Wolf Security for Business[5] that creates a resilient, hardware-enforced defense by detecting, isolating and self-healing the BIOS from today's firmware attacks and tomorrow's quantum threats.

Adaptable AI that works like you do

Take on demanding enterprise workloads and emerging AI applications[6] with an AI PC intelligently tuned to analyze, create, and optimize with up to 50 TOPS[3] of local AI performance that adapts to you, powered by an optional built-in battery.[7]

*Product image may differ from actual product

Sustainability in action

Help protect our shared future

Craftsmanship with less to build, less to ship, and less on your desk. At least 70% recycled plastic[8] in the covers and keyboard components, thermals crafted from 45% recycled copper,[9] and 100% sustainably sourced or recycled paper-based packaging.[10]

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Featuring

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HP Recommends Windows 11 Pro for business with Microsoft Copilot
Work without compromising on 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.[1,12]

Commanding AMD processor
Power through your work with a reliable AMD Ryzen® processor, featuring an up to 50 TOPS NPU that maximizes efficiency for a fast, responsive experience.[2,3]

Calculated comfort in every keystroke
Engineered for an elite typing experience with backlit keys designed for comfort with smooth, subtle contours. Responsive key travel and tactile feedback for long typing sessions, and an optional fingerprint sensor for secure sign-on.[7]

Compact form, boundless function
Bring meaningful minimalism to your setup with the world's first AI PC built into a keyboard, merging desktop-grade performance in an ultralight, compact device for flexibility that frees you from one desk or display.[13]

A whole new way to spell simplicity with your setup
Connect effortlessly to a wide range of devices with a single USB-C® that can tap into any size dual 4K monitors or docks — making setup seamless in any workspace so you can cut down clutter and get to work, anywhere.[4,14]

Engineered for desk-to-desk endurance
Built to survive those unexpected spills and scrapes, the HP EliteBoard G1a PC is equipped with a spill-resistant, easy-clean keyboard. Designed to pass MIL-STD 810 tests so you stay resilient even in demanding environments.[15]

No downtime drama, just snap-in solutions
Future-ready with easily replaceable top-mounted keyboard, RAM, SSD, and optional battery. This modular design build slashes costs and simplifies maintenance of your device.

Stay quick, cool and quiet under pressure
Adaptive thermals empower whisper-quiet, cool-to-the-touch comfort with on-device AI that monitors your workload and environment in real time to make dynamic adjustments, while HP Smart Sense optimizes power and performance.[16]

Easy power up from a single USB cable
Simplify setup and support with 65 W external power adapter that connects directly to outlets, or link to docks or displays with a single USB-C® cable. An optional 32 W internal battery even lets you go between workspaces without rebooting.[7]

Always audio ready, anywhere
Bring seamless desk-to-desk collaboration to every work session and clarity to every call with integrated dual speakers and microphones tuned by Poly Studio, delivering premium audio that transforms your workspace into a conference room.

Fast and efficient Wi-Fi 7
Get a fast and reliable connection in dense wireless environments with optional gigabit data rate Wi-Fi 7.[17,18]

Connectivity that clicks with your setup
Seamless out-of-the-box setup with a pre-paired wireless mouse designed for comfort and responsiveness. With a customizable button, smooth scroll wheel, and built-in smart features optimize workflows with accurate tracking.

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Technical specifications

Available Operating Systems	Windows 11 Pro[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 (Windows 11 Enterprise available with a Volume Licensing Agreement)[1] FreeDOS Linux® Ready
Available Processors	AMD Ryzen™ AI 7 PRO 350 (up 5.0 GHz max boost clock, 24 MB L3 cache, 8 cores, 16 threads) with AMD Radeon™ 860M Graphics and AMD Ryzen™ AI (50 NPU TOPS) AMD Ryzen™ AI 5 PRO 340 (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 5 330 (2.0 GHz base clock, up to 4.5 GHz max boost clock, 8 MB L3 cache, 4 cores, 8 threads) with AMD Radeon™ 820M Graphics and AMD Ryzen™ AI (50 NPU TOPS)
Neural Processing Unit	AMD XDNA™ 2 architecture[2]
Product colour	Eclipse gray
Form factor	Keyboard PC
Maximum memory	64 GB DDR5-5600 MT/s; (Transfer rates up to 5600 MT/s.); [3] Both slots are accessible/upgradeable by IT or self-maintainers only. Supports dual channel memory.
Memory slots	2 SODIMM
Internal storage	256 GB up to 2 TB PCIe® Gen 4 NVMe™ M.2 SSD[4] 256 GB up to 512 GB PCIe® Gen 4 NVMe™ M.2 SED Opal SSD[4] 32 GB eMMC v5.0 Embedded Flash Storage[48]
Available Graphics	Integrated: AMD Radeon™ Graphics (Support DX12 and HDMI 2.1.)
Audio	Audio by Poly Studio, dual stereo speakers (72 dBL, 450 Hz bass roll-off), integrated dual-array microphones (normal-SNR) with hardware-based noise cancellation
Ports and connectors	Rear: 1 USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1b); 1 nano security lock slot; 1 USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4)[7] ; Optional Ports: HDMI multi-port hub: 2 HDMI 2.1, 1 USB Type-C® 10Gbps signaling rate (65 W USB Power Delivery), 1 USB Type-C® 10Gbps signaling rate (DisplayPort™ 1.4), 1 RJ-45 (1 GbE); USB Type-C® to USB Type-A (optional dongle); USB-Type-C® to HDMI 2.0 (optional dongle); USB-Type-C® to DisplayPort™ 1.4 (optional dongle)[45,46]
Input devices	HP Premium Keyboard[8,49]; HP 675M Bluetooth Wireless Mouse[9]
Communications	MediaTek Wi-Fi 6E RZ616 (2x2) and Bluetooth® 5.3 wireless card; MediaTek Wi-Fi 7 MT7925 (2x2) and Bluetooth® 5.4 wireless card
Software	Buy Microsoft Office (sold separately)[21]; HP Services Scan[22]; HP Smart Support[23]; HP Support Assistant[24]; myHP; HSA Fusion for Commercial; HSA Telemetry for Commercial; Poly Lens[25]; Copilot in Windows with Copilot key[26]; HP Connection Optimizer; Edge Customization; HP Hotkey support; HP MAC Address Manager; HP Notifications; HP UEFI BIOS Certification level 2.8; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP IQ[57]
Security management	HP Tamper Lock[27]; Trusted Platform Module TPM 2.0 Embedded Security Chip shipped with Windows 11 (Common Criteria EAL4+ certified)(FIPS 140-2 Level 2 certified); Absolute Persistence Module[28]; HP BIOS Recovery; BIOS Update via Network; HP BIOSphere Gen6[29]; HP DriveLock and Automatic DriveLock; HP Secure Erase[30]; HP Wake on WLAN; Security lock slot; Secured-Core PC Enable; Windows Hello Enhanced SIgn-in Security (ESS) Enable; HP Sure Admin[31]; HP Sure Click[32]; HP Sure Recover[33]; HP Sure Run[34]; HP Sure Sense[35]; HP Sure Start[36]
Security Software Licenses	HP Wolf Pro Security Edition[37]
Fingerprint reader	Fingerprint sensor integrated with power button (Optional)

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Management features	AMD AIM-T Manageability (default with PRO processors); HP Smart Sense with AMD Auto State Mangagement; System Resource Optimizer; HP Client Catalog (download)[12]; HP Client Management Script Library (download)[13]; HP Cloud Recovery[14]; HP Connect for Microsoft Endpoint Manager[15]; HP Driver Packs (download)[16]; HP Image Assistant (download)[17]; HP Manageability Integration Kit (download)[18]
Power	65 W external USB Type-C® GaN power adapter, non-PFC[10]
Battery type	Internal 32 Wh battery (Optional)[40]; Battery is internal. Fast charging 50% in 30 minutes.
Battery life	Up to 3.5 hours of light productivity[39]
Dimensions	14.1 x 4.7 x 0.7 in; 35.81 x 11.87 x 1.79 cm; 40.8 x 26.3 x 5.7 cm (Package)
Weight	0.67 kg; (Weight will vary by configuration. Does not include power adapter)
Ecolabels	EPEAT® registered configurations available; TCO Certified configurations available; EPEAT® Gold registered in the U.S.[11]
Energy star certified	ENERGY STAR® certified
Certification and compliance	GS Mark; CSA/UL 62368-1; FCC/ICES/CISPR/VCCI; CE Marking; China CCC/SRRC; Taiwan BSMI/NCC; Korea KCC/KC/KES; Ukraine NSoC/TEC; EAEU Compliance; Saudi Arabian Compliance; WW RoHS; MIL-STD 810H
Sustainable impact specifications	100% sustainably sourced and recyclable packaging; 100% recycled rare earth magnets (speaker box); Up to 90% ocean-bound plastic (keycaps and keyboard membrane); Up to 90% recycled steel content (system); Up to 75% recycled plastic content (enclosure)[41,42,43,44]
What's in the box	Canvas cover sleeve (optional); Built-in USB Type-C® cable; Detachable USB Type-C® cable[47]
Warranty	1-year warranty and 90 day software limited warranty options depending on country. HP Worldwide Limited Warranty for the battery is aligned with the warranty period of the HP Hardware Product. Refer to http://www.hp.com/support/batterywarranty/ for additional battery information. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: http://www.hp.com/go/cpc .

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Footnotes

Messaging 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. 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. AMD's numbering is not a measurement of clock speed

[3] 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.

[4] Requires compatible display with USB-C® connection. Compatible display sold separately.

[5] 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.

[6] Sold separately or as an optional feature.

[7] Optional feature must be configured at time of purchase.

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

[9] 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.

[10] Recycling capabilities may vary depending on your location. Please refer to your local recycling program for detailed information.

[12] Timing of feature delivery and availability varies by market and device. Requires Microsoft account to log in. See aka.ms/copilotpluspcs. Copilot is NOT available in China, Russia, Belarus, and embargoed regions Cuba, Iran, North Korea, Crimea.

[13] Based on HP's internal analysis of commercially available desktop-class PCs with integrated AI acceleration (NPU ≥ 40 TOPS) and full PC components embedded within a keyboard chassis, as of product release date. "World's First" refers to the HP EliteBoard G1a (Nexus) being the only device to combine a high-performance NPU, enterprise-grade CPU, memory, storage, and I/O ports within a standalone keyboard form factor.

[14] Sold separately or as an optional feature.

[15] MIL STD 810 testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Any accidental damage requires an optional HP Accidental Damage Protection Care Pack.

[16] Smart Sense requires the HP app and Windows 11 OS. Features may vary by platform.

[17] 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.

[18] 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.

Specification 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 www.windows.com .

[2] 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.

[3] 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.

[4] For solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows) of system disk is reserved for the system recovery software.

[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 Windows 11 24H2 which would be available starting from end of Aug./2024. 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.

[6] WiFi-6E might be restricted by local regulation and only available in countries where Wi-Fi 6E is supported. HP will enable countries in the future by upgrading BIOS in default as the technology becomes available in more regions.

[7] USB Type-C® Alt mode DisplayPort™ 1.2 with 65 W Power Delivery required selected HP display monitors with 65 W power delivery capability.

[8] Spill-resistant, easy clean, full-size with numpad, backlit, top mount serviceable

[9] pre-paired with PC, includes USB Type-C® dongle and 2 AAA batteries required for operation.

[10] Optional feature. Country-specific duckhead adapter provided based on localization at time of configuration. Gallium Nitride (GaN) adapter.

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

[12] HP Client Catalog not preinstalled, however available for download at https://www.hp.com/us-en/solutions/client-management-solutions.html .

[13] HP Client Management Script Library https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools .

[14] 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/computer .

[15] HPConnect for Microsoft Endpoint Manageris 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.

[16] HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement .

[17] HP Image Assistant not preinstalled, however available for download at https://ftp.ext.hp.com/pub/caps-softpaq/cmit/HPIA.html .

[18] HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement .

[19] 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 .

[20] 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 .

[21] Microsoft 365 sold separately and requires Internet access for activation.

[22] HP Services Scan automatically collects the telemetry necessary upon initial boot of the product to deliver device-level configuration data and health insights and is available preinstalled on select products, thru HP Factory Configuration Services; orit can be downloaded. For more information about how to enable HP Smart Support orfor download, please visit http://www.hp.com/smart-support .

[23] HP Smart Support automatically collects the telemetry necessary upon initial boot of the product to deliver device-level configuration data and health insights and is available preinstalled on select products, thru HP Factory Configuration Services; orit can be downloaded. For more information about how to enable HP Smart Support orfor download, please visit http://www.hp.com/smart-support .

[24] HP Support Assistant is available on Windows. For more information, please visit http://www.support.hp.com/help/hp-support-assistant .

[25] Poly Lens Desktop requires a Windows OS.

[26] Microsoft Copilot 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 Copilot is not available, the Copilot key will lead to the Bing search engine. See http://aka.ms/WindowsAIFeatures .

[27] HP Tamper Lock can be Enabled/disabled by customers or IT administrator with administrator authority.

[28] 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/.

[29] HP BIOSphere Gen6 features may vary depending on the platform and configuration.

[30] HP Secure Erase implements the methods outlined in the National Institute of Standards and Technology Special.

[31] 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.

[32] HP Sure Click requires Windows 10 Pro or higher or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.

[33] 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.

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

[35] HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS.

[36] HP Sure Start is available on select HP PCs and requires Windows 10 and higher.

[37] 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.

[38] HP Fingerprint Reader is an optional feature that requires Windows 10 or 11 and must be configured at purchase.

[39] MobileMark 30 battery life will vary depending on various factors including 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 www.bapco.com for additional details.

[40] Recharges up to 50% within 30 minutes when the system is off orin standby mode when used with the power adapter provided with the notebook. Power adapter minimum of 65 watts required for battery capacities 56 Whr or less.

[41] HP brand paper and paper-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, industrial, and 3D products, scanners, personal systems accessories, and spare parts is not included.

[42] Ocean Bound plastic is expressed as a percentage of the total weight of the plastic. Ocean Bound plastic is based on the definition set by the UL2809 standard.

[43] Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts.

[44] Recycled plastic is expressed as a percentage of the total weight of the plastic. Post-consumer recycling is based on the definition set in the EPEAT standard for computers, IEEE 1680.1-2018 standard.

[45] Can configure with up to 2 dongles at time of purchase. Dongles sold separately.

[46] HDMI multi port hub connects to monitor via HDMI-in port and requires power from included external power adapter (65 W). NOTE: Supports daisy chain to second monitor via HDMI.

[47] Supports data transfer up to 40 Gbps, video output for 2 monitors (via daisy chain) up to 4 K at 120 Hz or 5 K at 60 Hz, and power delivery up to 65 W.

[48] Is only available on the Ryzen 7 AI PRO 350 processor and is intended to support HP Sure Recover functionality.

[49] keyboard designed with integrated noise cancellation technology to block out typing noise during conference calls.

[50] MIL-STD 810H durability tests include Transit Drop Test, Functional Shock Test, Vibration Test, Dust Test, Humidity Test, Altitude Test, High Temperature Test, Low Temperature Test, and Thermal Shock Test.

[57] HP IQ delivery app is preloaded on select HP PCs; it will be automatically updated to the future featured HP IQ application with automatic updates enabled in the Microsoft Store app on your PC. The future featured HP IQ app uses artificial intelligence. Features vary by configuration.