

HP EliteDesk 8 Mini G2a Desktop Next Gen AI PC

Next-gen AI power in a Mini to fuel your innovative ideas

Run multiple AI based applications⁴ simultaneously driving productivity with uninterrupted workflows on the HP EliteDesk 8 Mini Next Gen AI PC. This HP Copilot+ PC⁵ features versatile deployment options and advanced security features.⁶

Unleash next-gen AI power and expand workforce capabilities

Experience exceptional performance with the HP EliteDesk 8 Mini G2a Next Gen AI PC powered by the latest AMD Ryzen™ processor² with an up to 50 TOPS NPU³. Take on the most demanding tasks with its AI capabilities that boost productivity and streamline workflows.

Single cable solution for a tidy workspace

With selected HP displays⁷, the HP EliteDesk 8 Mini G2a Next Gen AI PC can transfer power and video through a single cable, creating a tidy working environment. Users can power on the Mini through the display power button, simplifying setup.

Compact size for versatile deployment across the enterprise

Featuring a compact 1L chassis that provides flexible deployment options, the HP EliteDesk 8 Mini G2a Next Gen AI PC supports various mounting solutions⁷ and offers sufficient I/O ports to connect peripherals, ensuring seamless workflows and productivity.



*Product image may differ from actual product

Sustainability in action

Help protect our shared future

At least 95% of plastic used in the chassis is post-consumer recycled plastic.⁸ 100% of HP paper-based packaging is from recycled or certified sustainable sources.⁹ This PC is ENERGY STAR® certified¹⁰ and EPEAT® Climate+ Gold registered.¹¹



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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

Take on your work with an efficient and reliable AMD Ryzen® processor with an up to 50 TOPS NPU and up to 54W Thermal Design Power (TDP) that provides a highly responsive experience.^{2,3}

Protected by HP Wolf Security

HP Wolf Security for Business creates a hardware-enforced, always-on, resilient defense. From the BIOS to the browser, above, in, and below the OS, these constantly evolving solutions help protect your PC from modern threats.⁶

Browse confidently

Help protect your PC from websites and read-only Microsoft Office and PDF attachments with malware, ransomware, or viruses with hardware-enforced security from HP Sure Click.¹³

Automatic recovery from firmware attacks

Firmware attacks can completely devastate your PC. Stay protected with HP Sure Start, the self-healing BIOS that automatically recovers itself from attacks or corruption.¹⁴

Keep your PCs current – automatically

With HP Support Assistant, keep your PC – or fleet – maintained with automatic updates and fixes. View devices in one place, see available updates by priority, and run built in fixes and diagnostics to reduce downtime.¹⁵

Keep your PC's security protections in place

Stop unwanted changes to security settings and help limit the spread of malware with HP Sure Run which identifies, quarantines, and provides reporting on attackers trying to kill processes.¹⁶

Physical tamper protection

Require a supervisor password to be used to unlock a PC anytime tamper detection sensors located on the top cover of the PC and on internal storage are removed with HP Tamper Lock.¹⁷

Fast and efficient Wi-Fi 7

Get a fast and reliable connection in dense wireless environments with optional gigabit data rate Wi-Fi 7.^{18,19}

Designed to grow with your business

Built to grow with your business, the HP EliteDesk 8 Mini G2a features support for up to three SSDs, onboard graphics, and enhanced toolless upgradeability and serviceability, ensuring your PC evolves with your needs.

Built-in durability

Rest easy with a PC that undergoes 120,000 hours of HP's Total Test Process and MIL-STD 810 testing. Help extend protection with an optional removable dust filter.^{20,21,22}

Enhanced predictive coverage

Limit interruptions with HP Premium+ Support, a smart service that alerts of potential device issues using predictive AI-powered insights, automation and proactive 24/7 support for our fastest diagnosis and repair – wherever work happens.^{23,24}



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Technical specifications

Available Operating Systems	Windows 11 Home - HP recommends Windows 11 Pro for business ¹ Windows 11 Pro ¹ Windows 11 Pro (Windows 11 Enterprise or Windows 10 Enterprise available with a Volume Licensing Agreement) ¹ Windows 11 Pro Education ^{1,3} FreeDOS ¹
Processor family⁴	AMD Ryzen™ AI 7 PRO processor AMD Ryzen™ AI 5 PRO processor AMD Ryzen™ AI 7 processor AMD Ryzen™ AI 5 processor
Available Processors^{4,5}	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) AMD Ryzen™ AI 5 PRO 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 7 445 (up to 4.6 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 5 430 (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 Ryzen™ AI
Product colour	Jack black
Form factor	Mini
Maximum memory	64 GB DDR5-5600 MT/s; ⁶ Transfer rates up to 5600 MT/s.
Memory slots	2 SODIMM
Internal storage	256 GB up to 1 TB PCIe® NVMe™ M.2 SSD ² 512 GB up to 2 TB PCIe® NVMe™ TLC M.2 SSD ² up to 512 GB PCIe® NVMe™ SED Opal 2 TLC M.2 SSD ² up to 256 GB PCIe® NVMe™ SED Opal 2 M.2 SSD ²
Available Graphics	Integrated: AMD Radeon™ Graphics
Audio	Realtek ALC3252 codec, universal audio jack with CTIA headset support
Expansion slots	1 M.2 2230; 3 M.2 2280 ^{37,38} (1 M.2 slot for WLAN and 3 M.2 2280 slots for storage.)
Ports and connectors	Front: 1 USB Type-C® 10Gbps signaling rate; 2 USB Type-A 10Gbps signaling rate; 1 combo audio jack ; Rear: 2 USB Type-A 10Gbps signaling rate; 1 HDMI 2.1; 1 RJ-45; 1 power connector; 2 DisplayPort™ 2.1; 2 external antenna connector; 1 USB4 40Gbps signaling rate (100W USB power delivery); 2 USB Type-A Hi-Speed 480Mbps signaling rate ^{7,40} ; Optional Ports: Flex IO port 1 - choose one of the following options: 1 VGA, 1 Serial, 1 DisplayPort™ 2.1, 1 HDMI 2.1, 1 Thunderbolt 4.0, 1 Dual USB Type-A Hi-Speed 480Mbps signaling rate, 1 Dual USB 3.2 Type-C 10Gbps signaling rate port with 15W power delivery, Intel® I226V 2.5 Gigabit Network Connection LOM (non-vPro); Flex IO port 2 - choose one of the following options: 1 second Serial Port v3, HP Video Port Extender, 1 Dual Type-A SuperSpeed USB 5Gbps signaling rate or 1 Dual USB Type-A Hi-Speed 480 Mbps signaling rate ^{8,9,10,11,38}
Input devices	HP 175 Wired Keyboard; HP 175 Antimicrobial Wired Keyboard; HP 275 Black Wireless Keyboard and Mouse combo ¹² ; HP 175 Wired Mouse; HP 175 Antimicrobial Wired Mouse ¹²
Communications	LAN: Realtek RTL8111EPP GbE ; WLAN: MediaTek Wi-Fi 6E RZ616 (2x2) and Bluetooth® 5.3 wireless card; Realtek Wi-Fi 6 RTL8852BE-VT 802.11a/b/g/n/ax (2x2) and Bluetooth® 5.4 wireless card; MediaTek Wi-Fi 7 MT7925 (2x2) and Bluetooth® 5.4 wireless card
Environmental	Operating temperature: 5 to 35°C; Operating humidity: 5 to 90% RH
Software	Buy Microsoft Office (sold separately) ²⁰ ; Edge Customization; HP Connection Optimizer; HP Desktop Support Utilities; 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 ²¹ ; HP Support Assistant ²² ; HSA Fusion for Commercial; HSA Telemetry for Commercial; myHP with Multicamera support ²³ ; Poly Camera Pro; Poly Lens ²⁴ ; HP IQ ⁴¹
Security management	Secured-Core PC Enable ²⁵ ; HP Wolf Security for Business includes: HP Sure Start, HP Secure Erase ²⁶ ; HP Sure Admin ²⁷ ; HP Sure Click ²⁸ ; HP Sure Run ²⁹ ; HP Sure Sense ³⁰ ; HP Sure Recover ³¹ ; HP Sure Start ³² ; HP Tamper Lock ³³ ; Absolute Persistence Module ³⁴ ; Audio Permanent Disable; HP BIOS Recovery; HP BIOS Update via Network; HP BIOSphere ³⁵ ; HP DriveLock and Automatic DriveLock; HP Secure Erase ³⁶



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Management features	HP Client Catalog (download) ¹³ ; HP Client Management Script Library (download) ¹⁴ ; HP Cloud Recovery ¹⁵ ; HP Connect for Microsoft Endpoint Manager ¹⁶ ; HP Driver Packs (download) ¹⁷ ; HP Image Assistant (download) ¹⁸ ; HP Manageability Integration Kit (download) ¹⁹
Power	90 W external AC power adapter, up to 89% efficiency; 120 W external AC power adapter, up to 89% efficiency; 65 W external AC power adapter, up to 89% efficiency; 100 W external USB Type-C® GaN power adapter
Dimensions	6.97 x 7.13 x 1.35 in; 17.7 x 18.1 x 3.42 cm; 18.9 x 4.1 x 9.4 in; 19.6 x 5.2 x 9.3 in (USA and Brazil models only) 48.1 x 10.5 x 24 cm; 49.8 x 13.2 x 23.5 cm (USA and Brazil models only) (Package)
Weight	3.13 lb; 1.42 kg
Sustainable impact specifications	Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Ocean-bound plastic in speaker enclosure and I/O strip; 55% post-consumer recycled plastic; 100% recycled rare earth elements in speaker; Outside box and corrugated cushions are 100% sustainably sourced or recyclable



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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 inferring performance varies by use, configuration, and other factors.
- ⁴ ISV solutions are sold separately and may require a subscription and NPU.
- 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 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 personal systems accessories and spare parts is not included.
- ¹⁰ ENERGY STAR® certified products meet strict energy efficiency guidelines set by the U.S. Environmental Protection Agency. ENERGY STAR® and the ENERGY STAR® logo are registered trademarks of the U.S. Environmental Protection Agency.
- ¹¹ Based on US EPEAT® registration according to IEEE 16801-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more 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 HP Sure Click requires Windows 10 and higher. See https://bit.ly/2PrLT6A_SureClick for complete details.
- ¹⁴ HP Sure Start is available on select HP PCs and requires Windows 10 Pro and higher.
- ¹⁵ Internet access required.
- ¹⁶ HP Sure Run is available on select HP PCs and requires Windows 10 and higher.
- ¹⁷ HP Tamper Lock requires a supervisor password be established prior to use.
- ¹⁸ 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.
- ¹⁹ 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.
- ²⁰ HP Total Test Process testing is not a guarantee of future performance under these test conditions. Any accidental damage requires an optional HP Accidental Damage Protection Care Pack.
- ²¹ 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.
- ²² Optional feature that must be configured at the time of purchase.
- ²³ Predictive insights is only available with HP Premium+ Support. 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.

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 11 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 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.
- ³ Not available on CoPilot+ PC.
- ⁴ 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.
- ⁵ Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.
- ⁶ Actual transfer rate will vary and is determined by the system's configured processor. See processor specifications for supported memory data rate. All memory slots are customer accessible / upgradeable.
- ⁷ One Type-A SuperSpeed USB 480Mbps signaling rate with wake from keyboard (if the keyboard is connected thru the USB port, the system can be awake when pressing any key on the keyboard).
- ⁸ Only one option card can be configured at a time.
- ⁹ Sold separately or as an optional feature.
- ¹⁰ Availability depends on model.
- ¹¹ USB-C® Alt mode DisplayPort™ 12 with 100W Power Delivery required selected HP display monitors with 100W power delivery capability.
- ¹² HP 175 Antimicrobial Wired Keyboard and HP 175 Antimicrobial Wired Mouse are China only.
- ¹³ HP Client Catalog not preinstalled, however available for download at <https://www.hp.com/us-en/solutions/client-management-solutions.html>.
- ¹⁴ HP Client Management Script Library <https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools>.
- ¹⁵ 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>.
- ¹⁶ 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.
- ¹⁷ HP Driver Packs not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>.
- ¹⁸ HP Image Assistant not preinstalled, however available for download at <https://ftp.ext.hp.com/pub/caps-software/cmit/HPIA.html>.
- ¹⁹ HP Manageability Integration Kit can be downloaded from <http://www.hp.com/go/clientmanagement>.
- ²⁰ Microsoft 365 sold separately and requires Internet access for activation.
- ²¹ 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; or it can be downloaded. For more information about how to enable HP Smart Support or for download, please visit <http://www.hp.com/smart-support>.
- ²² HP Support Assistant is available on Windows. For more information, please visit www.support.hp.com/help/hp-support-assistant.
- ²³ MyHP requires Windows 10 or higher OS.
- ²⁴ Poly Lens Desktop requires a Windows OS.
- ²⁵ 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.
- ²⁶ 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.
- ²⁷ 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.
- ²⁸ HP Sure Click requires Windows 10 Pro or higher or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.
- ²⁹ HP Sure Run is available on select HP PCs and requires Windows 10 and higher.
- ³⁰ HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS.
- ³¹ 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.
- ³² HP Sure Start is available on select HP PCs and requires Windows 10 and higher.
- ³³ HP Tamper Lock can be Enabled/Disabled by customers or IT administrator with administrator authority.
- ³⁴ 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/>.
- ³⁵ HP BIOSphere features may vary depending on the platform and configuration.
- ³⁶ HP Secure Erase implements the methods outlined in the National Institute of Standards and Technology Special.
- ³⁷ 54W processors: AMD Ryzen™ AI 7 PRO 450, AMD Ryzen™ AI 7 450, AMD Ryzen™ AI 5 PRO 440
- ³⁸ HP Video Port Extender and Dual Type-A 10Gbps are only available on Ryzen AI 400 series with 54 W Processors. Dual Type-A Hi-Speed 480 Mbps is only available on Ryzen AI 400 series with 28 W Processors.
- ³⁹ 3rd M.2 SSD only available for 54 W processors.
- ⁴⁰ Two chassis available: 10Gbps USB-A Only available on Ryzen AI 400 series with 54W Processors or 480Mbps USB-A Only available on Ryzen AI 400 series with 28W Processors.
- ⁴¹ 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.
- ⁴² 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 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. NOTE: Wi-Fi 6E and Wi-Fi 7 might be restricted by local regulation and only available in countries where Wi-Fi 6E and Wi-Fi 7 are supported. HP will enable countries in the future by upgrading BIOS in default as the technology becomes available in more regions.

