HP EliteDesk 8 Mini G1a Desktop Next Gen AI PC

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

Run multiple AI based applications[4] simultaneously driving productivity with uninterrupted workflows on the HP EliteDesk 8 Mini G1a Next Gen AI PC. Versatile deployment options and advanced security features make it the ideal choice for tight workspaces.

Unleash next-gen AI power and expand workforce capabilities

Experience exceptional performance with the HP EliteDesk 8 Mini G1a Next Gen AI PC powered by the latest AMD Ryzen® processor[2] with an up to 50 TOPS NPU[3]. 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 displays[5], the HP EliteDesk 8 Mini G1a 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 G1a Next Gen AI PC supports various mounting solutions[5] 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 50 percent of all plastic used in this PC is post-consumer recycled plastic.[6] 100% of HP paper-based packaging is from recycled or certified sustainable sources.[7] This PC is ENERGY STAR® certified and EPEAT® Climate+ Gold registered.[8]

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Featuring

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.[1,9]

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 54 W Thermal Design Power (TDP) that provides a highly responsive experience.[2,3]

Explore new things and find answers
Seamlessly explore new things and find answers to anything you need, leveraging web content. With AI Companion you can Discover information, advice, creative ideas, or just conversation. Experience the power of AI knowledge at your fingertips.[11]

Query and interact with your personal files
Query and interact with your personal files to get actionable insights. Build a custom library in AI Companion to Analyze and compare your documents, summarize, or draft reports and articles.[11]

Optimize your PC with Perform tool
Get updates and ongoing optimization with the new Perform tool in AI Companion that will assess your PC performance, improve it and better your everyday experience over time. Works in the background to maintain system drivers, BIOS, and core PC firmware.[11]

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.[10]

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.[12]

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.[13]

Fast and efficient Wi-Fi 7
Get a fast and reliable connection in dense wireless environments with optional gigabit data rate Wi-Fi 7.[14,15]

Build an ecosystem
Customize your Mini solution with a range of exclusive accessories that secure and mount your Mini and its power supply on a monitor or wall.[5]

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.[16,17]

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Technical specifications

Available Operating Systems	FreeDOS[1] 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]
Processor family[3]	AMD Ryzen™ AI 7 PRO processor AMD Ryzen™ AI 5 PRO processor AMD Ryzen™ AI 7 processor AMD Ryzen™ AI 5 processor
Available Processors[3,4]	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 7 350 (up 5.0GHz 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 5 340 (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 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)
Neural Processing Unit	AMD Ryzen™ AI
Product colour	Jack black
Form factor	Mini
Maximum memory	64 GB DDR5-5600 MT/s; [5] 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 (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 with CTIA and OMTP headset support ; 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)[6] ; Optional Ports: Flex IO port 2 - choose one of the following options: 1 Serial, 1 HP Video Port Extender, 1 Dual USB 2.0 Type-A SuperSpeed USB 5Gbps signaling rate; 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 SuperSpeed USB 2.0 Type-A 5Gbps 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)[7,8,9,10]
Input devices	HP 725 Multi-Device Rechargeable Wireless Keyboard and Mouse combo; HP USB 320K v2 Keyboard; HP USB Business Slim Wired v2 SmartCard CCID Keyboard; HP 125 v2 Wired Keyboard; HP 125 v2 AntiMicrobial Wired Keyboard[12]; HP 125 Wired Mouse; HP 128 Laser Wired Mouse; HP 125 Antimicrobial Wired Mouse; HP Wired 320M 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[20]; Edge Customization; HP AI Companion; HP Connection Optimizer; HP Desktop Support Utilities; HP Documentation; HP Hotkey support; HP Notifications; HP PC Hardware Diagnostics UEFI; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Services Scan[21]; HP Setup Integrated OOBE; HP Smart Support[22]; HP Support Assistant[23]; HSA Fusion for Commercial; HSA Telemetry for Commercial; myHP with Multicamera support[24]
Security management	Secured-Core PC Enable; 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 BIOSphere[35]; HP Secure Erase[36]; HP DriveLock and Automatic DriveLock; HP BIOS Update via Network

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Management features	HP Client Catalog (download)[13]; HP Client Management Script Library (download); 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]; HP Patch Assistant (download)[19]
Power	100 W external USB Type-C® power adapter, up to 88% efficiency; 90 W external AC power adapter, up to 89% efficiency; 120 W external AC power adapter, up to 89% efficiency
Dimensions	17.7 x 18.1 x 3.42 cm; 48.1 x 10.5 x 24 cm; 49.8 x 13.2 x 23.5 cm (USA and Brazil models only) (Package)
Weight	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 and 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 inferencing performance varies by use, configuration, and other factors.
[4] ISV solutions are sold separately and may require a subscription and NPU.
[5] Sold separately or as an optional feature.
[6] Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.
[7] 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.
[8] Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information.
[9] Microsoft Copilot is NOT available in China, Russia, Belarus, and embargoed regions Cuba, Iran, North Korea, Crimea.
[10] 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.
[11] HP AI Companion is available preloaded on select HP Next Gen AI PCs or is available for download from the Microsoft store and requires a HP Next Gen AI PC with a NPU supporting 40-60 TOPS with 16GB or more of storage and requires Windows 11. Perform requires account set up within 30 days of PC boot or enrollment through the HP AI Companion app. Some features require customer upload of local data. Ten (10) library 100MB limit each, supported files may vary and at launch include pdf, .txt,, .docx files. For 'On device' AI use, your HP Next Gen AI PC requires 32GB RAM and will require up to 4.5GB storage on your PC. "On device" mode uses a downloaded LLM Phi 3.5 to process queries locally and does not require an internet connection. "Cloud" mode uses GPT-4o to process queries online and requires an internet connection. Spotlight and voice capability are features within HP AI Companion. Expected availability in Spring 2025. Availability varies by region.
[12] HP Sure Click requires Windows 10 and higher. See https://bit.ly/2PrLT6A_SureClick for complete details.
[13] HP Sure Start is available on select HP PCs and requires Windows 10 Pro and higher.
[14] 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.
[15] 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.
[16] 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.
[17] HP Essential Support, HP Premium Support and HP Premium+ Support are available at the time of device purchase. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.

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 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] 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.
[4] Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.
[5] 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.
[6] One Type-A SuperSpeed USB 5 Gbps with wake from keyboard.
[7] Only one option card can be configured at a time.
[8] Sold separately or as an optional feature.
[9] Availability depends on model.
[10] USB-C® Alt mode DisplayPort™ 1.2 with 100W Power Delivery required selected HP display monitors with 100W power delivery capability.
[11] 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: WiFi-6E and Wi-Fi 7might 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.
[12] HP 125 Antimicrobial Wired Keyboard and HP 125 Antimicrobial Wired Mouse are not available in China.
[13] HP Client Catalog not preinstalled, however available for download at https://www.hp.com/us-en/solutions/client-management-solutions.html .
[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/document/c05115630 .
[15] 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.
[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 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 .
[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 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; 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 .
[23] HP Support Assistant is available on Windows. For more information, please visit http://www.support.hp.com/help/hp-support-assistant .
[24] MyHP with Multicamera support for Mini Desktop PC will only available on 13th processor and beyond.
[25] Poly Lens Desktop requires a Windows OS.
[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.

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