HP EliteDesk 8 Mini G2a Next Gen AI PC

A Copilot+PC[5]

Key Experiences and Product Specs



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

Key Product Experiences

- **Remarkable performance with AI boosted features.** Experience exceptional performance with the HP EliteDesk 8 Mini G2a Next Gen AI PC powered by the latest AMD Ryzen™ processor[1] with an up to 50 TOPS NPU[3,4]. Take on the most demanding tasks with its AI capabilities that boost productivity and streamline workflows.
- **Single cable solution for a tidy working environment.** With select HP displays[6], the HP EliteDesk 8 Mini G2a Next Gen AI PC can transfer power and video through a single cable[2], creating a tidy working environment. Users can power on the Mini through the display power button, simplifying setup.
- **Versatile design for small workspaces.** Featuring a compact 1L chassis that provides flexible deployment options, the HP EliteDesk 8 Mini G2a Next Gen AI PC supports various mounting solutions[6] and offers sufficient I/O ports to connect peripherals, ensuring seamless workflows and productivity.
- **Help protect our shared future.** At least 95% of plastic used in the chassis is post-consumer recycled plastic.[9] 100% of HP paper-based packaging is from recycled or certified sustainable sources.[12] This PC is ENERGY STAR® certified[13] and EPEAT Climate+™ Gold 2.0 registered.[17]
- **Protection before the threat.** 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.[22]

Product Specs:

Operating System	Windows 11 Home[18] Windows 11 Pro[18]
Processor(s)	Next-gen AMD Ryzen™ AI 400 series APU[1] with 50 TOPs NPU[3,4] up to AMD Ryzen™ 7 PRO (54W and 28W)
Power adapter	• 65W/90W/120W external power adapter[11] • HP 100W external USB Type-C® [8] AC power adapter[11] • HP 100W Wall Mount USB Type-C® [8] GaN Halogen Free AC power adapter[11] • Support power intake up to 100W with USB Type-C® power delivery
Memory	Two SODIMM slots, up to 64GB DDR5 5600 MT/s[21]
Graphics	Integrated: AMD Radeon™ Graphics
Security	HP Wolf Security for Business[22] includes HP Sure Click[26], HP Sure Sense[27], HP Sure Recover[28], HP Sure Run[32], HP Sure Admin[23], HP Sure Start[29], HP Tamper Lock[30], HP BIOSphere[31], HP Secure Erase[34], HP Manageability Integration Kit[33], HP DriveLock & Automatic DriveLock, BIOS Update via Network, Absolute Persistence Module, Power-On Authentication, Microsoft 3rd Party UEFI CA Enable; Physical security lock and intrusion sensor for chassis open alert
Connectivity/ ports	**LAN**: Integrated Realtek RTL8111FP; **WLAN**: Mediatek RZ616 Wi-Fi 6E[37,38] +Bluetooth® 5.3 wireless card AIM-T, Mediatek MT7925 Wi-Fi 7[35,36] +Bluetooth® 5.4 wireless card AIM-T, Realtek 8852BE Wi-Fi 6[39] +Bluetooth® **Front**: (1) USB Type-C® SuperSpeed, 10Gbps signaling rate[24]; (2) USB Type-A™ SuperSpeed, 10Gbps signaling rate[24]; (1) Headphone/microphone combo **Ryzen AI 440 & 450 - Rear**: (1) Power connector; (1) RJ-45; (2) USB Type-A SuperSpeed, 10Gbps signaling rate[24]; (1) USB Type-C® [8] SuperSpeed, 40 Gbps signaling rate[24] with 100W power intake; (2) DisplayPort™ 2.1; (1) HDMI 2.1[40] **Ryzen AI 430, 435 & 445 - Rear**: (1) Power connector; (1) RJ-45; (2) USB 2.0; (1) USB Type-C® [8] with 100W power intake; (2) DisplayPort™ 2.1; (1) HDMI 2.1[40] **Ryzen AI 5 440 & Ryzen AI 7 450**: **Optional Flex I/O Port 1:** DisplayPort™/HDMI[40]/VGA/Intel 2.5G/Dual USB Type-A 3.2 Gen2/Serial/Dual USB Type-C® [8]/Thunderbolt™ 4[7] **Optional Flex I/O Port 2**: HP Video port extender Card/Dual USB Type -A (5Gbps)/Serial **Ryzen AI 5 430, 435 & Ryzen AI 7 445: Optional Flex I/O Port 1:** DisplayPort™/HDMI[40]/VGA/ Intel 2.5G/Dual USB Type-A 2.0/Serial/Dual USB Type-C® [8]/Thunderbolt™ 4[7] **Optional Flex I/O Port 2:** Dual USB Type-A 2.0/Serial
Drive bays/ M.2 slots	(1) M.2 2230 (for WLAN), (3) M.2 2280 (for SSD storage) (Toolless install design for 1st and 2nd SSD slots),[41] (Ryzen™ AI 5 430, 435 & Ryzen™ AI 7 445: up to 2 M.2)
Storage	Each Slot Up to 2TB PCIe® NVMe™ TLC M.2 SSD; up to 512GB PCIe® NVMe™ SED Opal2 TLC M.2 SSD; up to 512GB PCIe® NVMe™ M.2 SSD[19]
Dimension/ weight	177 x 34 x 181 mm; 6.97 x 1.35 x 7.13 in 1.35 kg; 2.97 lbs[14]
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, HP IQ,[44,45] Copilot +[5]
Sustainability	EPEAT Climate+™ 2.0 Gold 2.0[17] registered, ENERGY STAR®[13] and TCO certified; at least 50% post consumer recycled materials in total[16,42]; speaker enclosure, front bezel frame & front bezel I/O strip made from at least 5% ocean bound plastic[15]; fan housings made from at least 25% ocean bound plastic[15]; at least 75% recycled aluminum[20] used in chassis/inner parts; 100% recycled REE magnet in speaker box; molded paper pulp cushion inside box is 100% sustainably sourced and recyclable[12]; outer box packaging and corrugated cushions are 100% sustainably sourced and recyclable[42]; low halogen; bulk packs available.[43]

Disclaimers:

1. 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.
2. Single cable feature supported on select HP 7 and 5 Pro series displays with 100W power delivery.
3. Next Gen AI PC with 40 to 60 TOPS NPU to enable local AI processing.
4. 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.
5. 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. Use of Recall requires customer authentication using Windows Hello Enhanced Sign in Security (ESS) which requires a fingerprint reader or facial recognition camera and may not be supported on all platforms. See http://aka.ms/WindowsAIFeatures
6. Sold separately or as an optional feature.
7. SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.
8. USB Type-C® and USB-C® are registered trademarks of USB Implementers Forum
9. 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.
10. Support for up to seven displays on the HP EliteDesk 8 Mini G1i requires the NVIDIA® GeForce RTX™ 5050 discrete graphics card selected for flex I/O port 2. (4 native displays + 3 displays with discrete graphics in the optional flex I/O port 2). Support for up to six displays requires the HP Video Port Extender (VPE) selected for flex I/O port 2. (4 native displays + 2 displays with VPE in the optional flex I/O port 2). Must be configured at the time of purchase. Displays sold separately.
11. Optional feature that must be configured at the time of purchase.
12. 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.
13. 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.
14. Exact weight depends on configuration.
15. 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.
16. Percent of recycled material varies by product.
17. 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.
18. 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.
19. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) of disk is reserved for system recovery software.
20. 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.
21. Memory modules support data transfer rates up to 4800 MT/s; system speed up to 4400 MT/s, following Intel's design guideline. Actual data rate is determined by the system configuration. To achieve optimal memory speed, HP strongly recommends to use identical memory modules (e.g., same capacity, same part number and from the same supplier) within the same memory channel.
22. HP Wolf Security for Business requires Windows 10 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 and OS requirements.
23. HP Sure Admin requires Windows 10 or higher, HP BIOS, HP Manageability Integration Kit from http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.
24. Actual throughput may vary
25. MIL STD 810 testing is pending and 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.
26. HP Sure Click requires Windows 10 or higher. See https://bit.ly/2PrLT6A_SureClick for complete details.
27. HP Sure Sense is available on select HP PCs and is not available with Windows10 Home.

28. HP Sure Recover is available on select HP PCs and requires Windows 10 or higher 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.
29. HP Sure Start is available on select HP PCs and requires Windows 10 or 11.
30. HP Tamper Lock must be enabled by the customer or your administrator.
31. HP BIOSphere requires Windows 10 and is available on select HP Pro and Elite PCs. Features may vary depending on the platform and configurations
32. HP Sure Run is available on select HP PCs and requires Windows 10 or higher.
33. HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement and requires Microsoft Endpoint Manager.
34. For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™
35. 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.
36. 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.
37. 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.
38. 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.
39. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs.
40. HDMI 2.1 support resolution up to 4K @60 Hz
41. Toolless SSD installation only available on 1st and 2nd SSD slots.
42. Recycled materials is expressed as a percentage of the total recycled plastic and metal over the total weight of the product.
43. Bulk packaging solution may vary by region or market
44. HP IQ will be available on G2 Commercial HP Next Gen AI PCs and AI PCs, and on select G1 Commercial Next Gen AI PCs and AI PCs. PC compatibility and availability subject to change without notice. Product compatibility may vary at launch. HP IQ feature set will vary by configuration.
45. 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 14. 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.