HP EliteDesk 8 Mini G1a Desktop Next Gen AI PC

Copilot+PC

Key Experiences and Product Specs





HP's first Next-gen AI Desktop Mini[2] built for remote workers, frontline pros and tech experts, to power their big, innovative ideas.

Key Product Experiences

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 next-gen AMD Ryzen™ AI 300 series APU[3] with 50 TOPs NPU[4]. AI capabilities like HP AI Companion[6] elevate everyday tasks with intelligent assistance and analysis of your personal files, boosting productivity and streamlining workflows. This highly power efficient PC uses AMD's Auto State Management, a dynamic AI-driven system that continuously optimizes power usage for maximum efficiency.

Single cable solution and versatile deployment: With selected HP displays[7], the HP EliteDesk 8 Mini G1a Next Gen AI PC can transfer power and video through a single cable[8], creating a tidy working environment. Users can power on the Mini through the display power button, simplifying setup. Deploy the HP EliteDesk 8 Mini G1i Next Gen AI PC flexibly with its compact design and ample I/O ports for seamless connectivity.

Work protected and secure: In addition to a physical security lock, HP Tamper Lock[9] for BIOS protection and intrusion sensor for detecting and alerting to unauthorized opening of the chassis, HP Wolf Security for Business[10] creates a hardware-enforced, always-on, resilient defense. The latest generation of HP Endpoint Security Controller[11] is a physically isolated, dedicated security microprocessor that protects firmware against quantum computer hacks. From the BIOS to the browser, above, in, and below the OS, these constantly evolving solutions help protect your PC from modern threats.

Product Specs:

Operating System	Windows 11 Pro[12]
Processor(s)	Next-gen AMD Ryzen™ AI 300 series APU[3] with 50 TOPs NPU[4] up to AMD Ryzen™ 7 PRO (54W)
Graphics	Integrated: AMD Radeon™ Graphics
Memory	Two SODIMM slots, up to 64GB DDR5 5600 MT/s[13]
Internal Storage	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[14]
Input/Connectivity	**Front**: (1) SuperSpeed USB Type-C® 10Gbps signaling rate[15]; (2) SuperSpeed USB Type-A™ 10Gbps signaling rate[15]; (1) Headphone/microphone combo **Rear**: (1) Power connector; (1) RJ-45; (2) SuperSpeed USB Type-A™ 10Gbps signaling rate[15]; (1) USB Type-C® w/ 100W power intake; (2) DisplayPort™ 2.1; (1) HDMI 2.1; (1) Optional Flex I/O Port 1: DP/HDMI/VGA/Intel 2.5G/Dual USB-A/Serial/Dual USB Type-C® /Thunderbolt™ 4; (1) Optional Flex I/O Port 2:Video port extender Card/2x USB-A (5Gbps signaling rate[15])/Serial
Wireless technology	**LAN**: Integrated Realtek RTL8111FP **WLAN**: Mediatek RZ616 Wi-Fi 6E[16,17] + Bluetooth® 5.3 wireless card AIM-T, Mediatek MT7925 Wi-Fi 7[18] + Bluetooth® 5.4 wireless card AIM-T, Realtek 8852BE Wi-Fi 6[19] + Bluetooth®
Power	65W/90W/120W external power adapter Supports power intake up to 100W with USB Type-C® power delivery
Weight and Dimensions	177 x 181 x 34 mm; 6.97 x 7.13 x1.35 in 1.42 kg; 3.13 lbs[20]
Color	Black
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)
Sustainable Impact Specifications	EPEAT Climate+™ Gold[21] registered, ENERGY STAR® and TCO certified; at least 50% PCR materials in total[22]; speaker enclosure, front bezel frame & front bezel I/O strip made from at least 5% ocean bound plastic[23]; fan housings made from at least 25% ocean bound plastic[23]; at least 75% recycled aluminum[24] used in chassis/inner parts; 100% recycled REE magnet in speaker box; molded paper pulp cushion inside box is 100% sustainably sourced and recyclable[25]; outer box packaging and corrugated cushions are 100% sustainably sourced and recyclable[25]; low halogen[26]; bulk packs available.[27]
Productivity and Tools	Copilot+ PC[1]; HP AI Companion[6]; HP Wolf Security for Business[10]; HP Endpoint Security Controller[11]; Physical security lock and intrusion sensor for chassis open alert

Disclaimers:

1. Copilot+ PC: On some devices, some Copilot+ PC experiences require free updates continuing to roll out through early 2025. 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. Next Gen AI PC with 40 to 60 TOPS NPU to enable local AI processing.
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. AI applications 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. Potential NPU inferencing performance varies by use, configuration, and other factors
5. N/A
6. HP AI Companion is available preloaded on select HP next gen AI PCs or is available for download from the Microsoft store, 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.
7. Sold separately or as an optional feature.
8. Single cable feature supported on select HP 7 and 5 Pro series displays with 100W power delivery.
9. HP Tamper Lock must be enabled by the customer or your administrator.
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. Requires Windows 10 or higher. For supported HP PCs with the latest HP Endpoint Security Controller
12. 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.
13. 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.
14. For storage drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows) is reserved for system recovery software.
15. Actual throughput may vary
16. 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.
17. 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.
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. 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.
20. Actual weight will vary by configuration.
21. 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.
22. Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 EPEAT standard.
23. 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
24. 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
25. 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.
26. External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.
27. Bulk packaging solution may vary by region or market

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