HP EliteDesk 8 SFF G2a Next Gen AI PC

A Copilot+PC[2]

Key Experiences and Product Specs



Local AI in an SFF desktop built for the enterprise.

Key Product Experiences

- **Remarkable performance with AI boosted features.** Unlock responsive performance for modern tasks with HP EliteDesk 8 SFF G2a Desktop Next Gen AI PC. This Copilot+ PC[2], powered by AMD Ryzen™ AI 400 series processor[1], delivers smooth multitasking, fast data processing, and supports complex projects with ease.
- **Versatile design for small workspaces.** Seamlessly integrate into offices with limited space without compromising power. Its small design offers scalability and connectivity for multitasking, making the HP EliteDesk 8 SFF G2a Desktop Next Gen AI PC ideal for modern work environments.
- **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]
- **Help protect our shared future.** At least 50% of all plastic used in this PC is post-consumer recycled plastic.[14] The outer box packaging is 100% sustainably sourced.[5] This PC is ENERGY STAR® certified[6] and EPEAT Climate+™ Gold 2.0 registered in the US.[17]

Product Specs:

Operating System	Windows 11 Home[9] Windows 11 Pro[9]
Processor(s)	AMD Ryzen™ AI 400 series APU[1] with 50 TOPs NPU[3, 4]
Graphics	**Integrated:** AMD RDNA 3.5 graphics **Optional discrete graphic card options:[11]** • Nvidia® RTX A1000 8GB GDDR6 • Nvidia® RTX A400 4GB GDDR6
Memory	2 DIMM slots, up to 64GB DDR5 5600 MT/s[10]
Drive bays & storage	2x M.2 SSD; Up to 4TB M.2. PCIe Gen5 SSD; (Speed limited to Gen 4 SSD)[12] 1x 3.5" HDD; Up to 2TB 3.5" HDD;[12] Optional 1x 9.5mm Slim SATA ODD[12] Optional removable M.2 SSD (QX118)[12]
Keyboard & Mouse	• HP 375 Secure SmartCard Keyboard[13] • HP 275 Wireless Keyboard and Mouse combo[13] • HP 175 Wired Keyboard[13] • HP 175 Wired Mouse[13] • HP 175 Wired Antimicrobial Mouse (China Only)[13]
Ports & Connectors	**Front:** (4) USB Type-A SuperSpeed, 10Gbps signaling rate[15]; (1) USB Type-C® [8] SuperSpeed, 20 Gbps signaling rate[15]; (1) Combo audio jack **Rear:** (1) Audio line-in/line-out jack connector; (1) RJ-45; (2) USB Type-A SuperSpeed, 5Gbps signaling rate[15]; (3) USB Type-A 480Mbps signaling rate[15]; (1) DisplayPort™ 2.1 HBR2; (1) HDMI 2.1[16] FRL8; (1) Serial Port (optional); (1) Flex IO: Choice of Serial/DisplayPort™ 2.1/HDMI 2.1[16]/VGA/dual USB-A (5Gbps signaling rate[15])/Dual USB Type-C® 3.2 Gen2 15W Out)/Thunderbolt™ 4[7]/1GbE fiber NIC, (1) PCIe Card: 4 Serial Port Card, Parallel Port Card
Connectivity	• **LAN**: Realtek RTL8111EPP 1GbE Ethernet Controller • **WLAN**: MediaTek RZ616 Wi-Fi 6E[31, 32] +Bluetooth® 5.3 WW WLAN, MediaTek MT7925 Wi-Fi 7[29, 30] +Bluetooth® 5.4 WLAN, Realtek 8852BE Wi-Fi 6[33] +Bluetooth® 5.3 WLAN (all internal antennas)
Expansion slots	(1) PCIe 4.0 x16 (dGPU), (1) PCIe 3.0 x1, (1) M.2 2230 for optional WLAN/Bluetooth®, (2) M.2 2280 for SSD drive
Security & Manageability	2026 HP Software Security stack (HP Sure Start,[24] HP BIOsphere,[23] HP Client Security Manager,[18] HP Sure Click,[27] HP Sure Sense,[26] etc.); Hardware TPM 2.0; Standard Cable Lock Slot; Accessory Cable Lock; Support for chassis padlock; HP Tamper Lock[37]; HP Manageability Integration Kit[28]; HP On Demand Lock
Sustainability	EPEAT Climate+™ Gold 2.0[17]; ENERGY STAR® 9[6] and TCO 10 certified; speaker enclosure, fan housing/ducts & front I/O strip made from recycled material including ocean-bound plastics[19,38]; molded paper pulp cushion inside box is 100% sustainably sourced and recyclable[5]; outside box and corrugated cushions are 100% sustainably sourced and recyclable[5]; low halogen; bulk packs available[34]
Dimension/weight	303.5 x 308 x 100 mm; 11.95 x 12.13 x 3.94 in 4.7kg; 10.4lbs[20]
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[35, 36], Copilot +[2]

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. 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
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. 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.
6. 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.
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. 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.
10. 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.
11. Optional feature that must be configured at the time of purchase.
12. 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.
13. Sold separately or as an optional feature.
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.
15. Actual throughput may vary
16. HDMI 2.1 support resolution up to 4K @60 Hz
17. This applies to EPEAT 2.0 Registered products that meet Global Electronics Council, Sustainable Use of Resources Criteria (EPEAT-SUR-2025), January 29, 2025. Available at www.gec.org.
18. HP Client Security Manager requires Windows and is available on the select HP Elite and Pro PCs.
19. 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.
20. Exact weight depends on configuration.
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 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.
23. HP BIOSphere requires Windows 10 and is available on select HP Pro and Elite PCs. Features may vary depending on the platform and configurations
24. HP Sure Start is available on select HP PCs and requires Windows 10 or 11.
26. HP Sure Sense is available on select HP PCs and is not available with Windows10 Home.
27. HP Sure Click requires Windows 10 or higher. See https://bit.ly/2PrLT6A_SureClick for complete details.
28. HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement and requires Microsoft Endpoint Manager.
29. 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.

30. 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.
31. 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.
32. 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.
33. 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.
34. Bulk packaging solution may vary by region or market
35. 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.
36. 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.
37. HP Tamper Lock must be enabled by the customer or your administrator.
38. Percent of recycled material varies by product.