

HP EliteDesk 8 SFF G2a Desktop Next Gen AI PC

Local AI in a SFF desktop built for the enterprise

Unleash AI-enhanced power with the HP EliteDesk 8 SFF G2a AI PC. Ready for AI apps⁴, this scalable, highly secure and manageable HP Copilot+ PC⁵ enables seamless multitasking drives innovation, performance, and enables confident AI deployment.

Speed, smarts, and seamless multitasking	Versatile design for small workspaces	Protection before the threat
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*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.⁷ The outer box packaging is 100 percent sustainably sourced.⁸ This PC is ENERGY STAR® certified⁹ and EPEAT® Climate+ Gold registered.¹⁰



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Featuring

Speed, smarts, and seamless multitasking

Unlock responsive performance for modern tasks with HP EliteDesk 8 SFF G2a. This HP Copilot+ PC⁵, powered by AMD Ryzen™ AI 400 series processor², 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 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.⁶

Help protect our shared future

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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.^{1,11}

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 65 W 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.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

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.¹⁴

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.¹⁵

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.¹⁶

Fast and efficient Wi-Fi 7

Get a fast and reliable connection in dense wireless environments with optional gigabit data rate Wi-Fi 7.^{17,18}

Designed to grow with your business

Built to grow with your business, the HP EliteDesk 8 SFF G2a features support for up to multiple storage drives, onboard graphics, and enhanced toolless upgradeability and serviceability, ensuring your PC evolves with your needs.¹⁹

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 Pro ¹ Windows 11 Pro Education ¹ Windows 11 Home – HP recommends Windows 11 Pro for business ¹ Windows 11 Home Single Language – HP recommends Windows 11 Pro for business ¹ FreeDOS
Processor family ¹⁵	AMD Ryzen™ AI 7 PRO processor AMD Ryzen™ AI 5 PRO processor AMD Ryzen™ AI 7 processor AMD Ryzen™ AI 5 processor
Available Processors ^{2,3,4}	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 clock, 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 PRO 450G (up to 5.1 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 5 PRO 440G (up to 4.8 GHz max boost clock, 22 MB L3 cache, 6 cores, 12 threads)with AMD Radeon™ 840M Graphics
Chipset	AMD Pro 665
Form factor	Small form factor
Maximum memory	64 GB DDR5-5600 SDRAM; ^{5,6,7,8,9} Transfer rates up to 5200 MT/s.
Memory slots	2 DIMM
Internal storage	1 TB up to 2 TB SATA HDD ^{10,1} 256 GB up to 1 TB PCIe® NVMe™ M.2 SSD ^{10,1} 512 GB up to 2 TB PCIe® NVMe™ TLC M.2 SSD ^{10,1} 512 GB up to 512 GB PCIe® NVMe™ SED Opal 2 TLC M.2 SSD ^{10,1} 256 GB PCIe® NVMe™ SED Opal 2 M.2 SSD ^{10,1}
Optical drive	HP 9.5 mm Slim DVD-Writer; HP 9.5 mm Slim DVD-ROM ¹²
Available Graphics	Integrated: NVIDIA RTX™ A1000 (8 GB GDDR6); NVIDIA RTX™ A400 (4 GB GDDR6) Discrete: AMD RDNA™ 3 Graphics
Audio	Realtek ALC3252 codec, universal audio jack with CTIA and OMTP headset support
Expansion slots	1 M.2 2230; 1 PCIe 3 x1; 2 M.2 2280; 1 PCIe 4 x16 (1 M.2 2230 slot for WLAN and 2 M.2 2280 slots for storage)
Ports and connectors	Front: 1 USB Type-C® 20Gbps signaling rate; 4 USB Type-A 10Gbps signaling rate; 1 combo audio jack ; Rear: 2 USB Type-A 5Gbps signaling rate; 1 HDMI 2.1; 1 RJ-45; 1 audio-in/out; 3 USB 2.0 Type-A; 1 DisplayPort™ 2.1 ; Optional Ports: 1 serial; Flex IO port – choose one of the following options: 1 Serial, 1 DisplayPort 2.1, 1 HDMI 2.1, VGA, 1 Dual Type-A SuperSpeed USB 5Gbps signaling rate, 1 Dual USB 3.2 Gen2 Type-C port with 15W output, 1 Thunderbolt 4.0, 1 HP Fiber NIC port; PCIe card – choose one of the following options: 4 serial or 1 parallel ¹⁴
Input devices	HP 175 Wired Keyboard; HP 175 Antimicrobial Wired Keyboard; HP 275 Black Wireless Keyboard and Mouse combo; HP 375 Secure SmartCard Keyboard ¹⁸ ; HP 175 Antimicrobial Wired Mouse ¹⁸
Communications	LAN: Realtek RTL8111EPP 1 GbE Ethernet Controller ; MediaTek Wi-Fi 6E RZ616 (2x2) and Bluetooth® 5.3 wireless card; Realtek Wi-Fi 6 RTL8852BE (2x2) and Bluetooth® 5.3 wireless card; MediaTek Wi-Fi 7 MT7925 (2x2) and Bluetooth® 5.4 wireless card
Drive Bays	One 3.5" HDD ¹³
Environmental	Operating temperature: 10 to 35°C; Operating humidity: 10 to 90% RH
Software	Buy Microsoft Office (sold separately) ¹¹ ; Edge Customization; HP Connection Optimizer; 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 ²³ ; HP Support Assistant ²⁴ ; HSA Fusion for Commercial; HSA Telemetry for Commercial; myHP ²⁵ ; Poly Camera Pro; Poly Studio Desktop ²⁶
Security management	Secured-Core PC Enable ²⁷ ; HP Wolf Security for Business ²⁸ ; HP Sure Admin ²⁹ ; HP Sure Click ³⁰ ; HP Sure Recover ³¹ ; HP Sure Run ³² ; HP Sure Sense ³³ ; HP Sure Start ³⁴ ; HP Tamper Lock ³⁵ ; Absolute Persistence Module ³⁶ ; Audio Permanent Disable; HP BIOS Update via Network; HP BIOSphere ³⁷ ; HP DriveLock and Automatic DriveLock; HP Fingerprint Sensor; HP Secure Erase ³⁸ ; HP Wake on WLAN



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Management features	HP Image Assistant (download) ¹⁹ ; HP Manageability Integration Kit (download) ²⁰ ; HP Client Management Script Library (download); HP Patch Assistant (download) ²¹ ; HP Connect for Microsoft Endpoint Manager ¹⁷ ; HP Driver Packs (download) ²² ; HP Cloud Recovery; HP Client Catalog (download)
Power	180 W internal power adapter, up to 90% efficiency, active PFC; 280 W internal power adapter, up to 92% efficiency, active PFC
Dimensions	12.12 x 11.95 x 3.94 in; 30.8 x 30.35 x 10 cm; 7.87 x 19.65 x 15.51 in 20 x 49.9 x 39.4 cm (Package)
Weight	10.3 lb; 4.6 kg; (Exact weight depends on configuration.)
Energy star certified	ENERGY STAR® certified
Sustainable impact specifications	Low halogen; 40% post-consumer recycled plastic; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable; Ocean-bound plastic in speaker enclosure and I/O strip; 10% ITE-derived closed loop plastic; 80 Plus® Platinum power supplies available ^{39,40,41,42,43,44}
EPEAT registered	EPEAT registered



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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 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.

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.

⁴ ISV solutions are sold separately and may require a subscription and NPU.

⁵ On some devices, some Copilot+ PC experiences require free updates continuing to roll out from Microsoft. 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.

⁶ 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.

⁷ Recycled plastic content percentage is based on the definition set in the IEEE 16801:2018 standard.

⁸ 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.

⁹ 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.

¹⁰ Based on US EPEAT® registration according to IEEE 16801:2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information.

¹¹ 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.

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 Internet access required.

¹⁵ HP Sure Run is available on select HP PCs and requires Windows 10 and higher.

¹⁶ HP Tamper Lock requires a supervisor password be established prior to use.

¹⁷ 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.

¹⁸ 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.

¹⁹ Sold separately or as an optional feature.

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 883C 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 is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees apply and additional requirements may apply over time for updates. See <http://www.windows.com>.

² 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. Performance varies by use, configuration, and other factors.

³ Multicore 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 Intel® Turbo Boost technology requires a PC with a processor with Intel Turbo Boost capability. Intel Turbo Boost performance varies depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for more information.

⁵ Memory modules support data transfer rates up to 5600 MT/s, system speed up to 5200 MT/s, following AMD's design guideline. Actual Data rate is determined by the system config.

⁶ System architecture design is 2 DIMMs per channel and the population starts from the furthest memory slot from the processor.

⁷ Symmetric configurations are required for the 2 DIMMs within the same memory channel.

⁸ 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.

⁹ All memory slots are customer accessible / upgradeable.

¹⁰ For storage drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows) of disk is reserved for system recovery software.

¹¹ Microsoft 365 sold separately and requires Internet access for activation.

¹² HD-DVD disks cannot be played on the DVD-ROM drive. No support for DVD-RAM. Actual speeds may vary. Don't copy copyright-protected materials. Double Layer discs can store more data than single layer discs. Discs burned with this drive may not be compatible with many existing single-layer DVD drives and players. Flawless playback on all systems is not guaranteed.

¹³ PC can only be configured with one of these three available optional features: slim ODD or removable HDD or M.2 SSD bay.

¹⁴ Thunderbolt™ 3.0 and Serial/PS/2 combo occupies a PCIe slot.

¹⁵ Ryzen™ AI is available on Ryzen 5 Ryzen PRO 8600G, Ryzen 7 PRO 8700G, Ryzen 5 8600G and Ryzen 7 8700G.

¹⁶ 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.

¹⁷ 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.

¹⁸ Availability varies by countries.

¹⁹ 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.

²⁰ HP Manageability Integration Kit can be downloaded from <https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools>.

²¹ 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 <https://www.hp.com/us-en/solutions/client-management-solutions.html>.

²² 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. Details please refer to: https://support.hp.com/us-en/document/ish_451095-451141-16.

²³ 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>.

²⁴ HP Support Assistant is available on Windows. For more information, please visit www.support.hp.com/help/hp-support-assistant.

²⁵ MyHP requires Windows 10 or higher OS.

²⁶ Poly Studio Desktop requires a Windows OS.

²⁷ 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.

²⁸ 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.

²⁹ 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.

³⁰ HP Sure Click requires Windows 10 Pro or higher or Enterprise. See <https://bit.ly/2PrLT6A>, SureClick for complete details.

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 Run is available on select HP PCs and requires Windows 10 and higher.

³³ HP Sure Sense is available on select HP PCs which requires Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS.

³⁴ HP Sure Start is available on select HP PCs and requires Windows 10 and higher.

³⁵ HP Tamper Lock can be Enabled/Disabled by customers or IT administrator with administrator authority.

³⁶ 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/>.

³⁷ HP BIOSphere features may vary depending on the platform and configuration.

³⁸ HP Secure Erase implements the methods outlined in the National Institute of Standards and Technology Special.

³⁹ External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.

⁴⁰ Percentage of ocean-bound plastic contained in each component varies by product.

⁴¹ Recycled plastic content percentage is based on the definition set in the IEEE 16801:2018 standard.

⁴² TE Derived Closed Loop Plastic percentage is based on the definition set in the IEEE 16801:2018 standard.

⁴³ 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.

⁴⁴ Molded pulp cushions are made from 100% recycled wood fiber and organic materials.

⁶¹ EPEAT registered where applicable, tier levels may vary by country. See www.epeat.net for registration status and tier levels by country.

