HP ProDesk 2 Tower G1a E Desktop AI PC

Supercharge your workflow with AI at your fingertips

Prepare for the future and efficiently handle demanding tasks with the stylish HP ProDesk 2 Tower G1a Desktop AI. Get business-critical productivity with an AMD processor[2] that features a dedicated NPU with 16 TOPS AI capacity[3] and up to 64 GB memory.[4]

Tools for exceptional performance

Stand up to new work adventures. The latest AMD processor[2], featuring a dedicated NPU[3], with support for up to 64 GB of DDR5 memory[4], and a super-fast NVMe SSD consolidate to help improve effectiveness and productivity.

Easily expandable with front and rear ports

Easily connect temporary peripherals with five USB ports, including one USB-C™, conveniently located on the front panel of this Tower PC. The three standard and two optional USB ports[4] on the rear panel provide a streamlined setup for fixed devices.

Help keep hardware and data safe

Help protect your investment and your data with discrete TPM, a padlock loop[5] to protect the chassis from intrusion, and slim cable lock and integrated accessory lock systems to secure your PC and cabled devices.[5]

*Product image may differ from actual product

Sustainability in action

Helping protect our shared future

EPEAT® registered[7,8] and ENERGY STAR® certified–uses 100% sustainably sourced and recyclable outer box packaging.[6]

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Featuring

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HP Recommends Windows 11 Pro for Business
Work anywhere 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]

Ready to meet the demands of your day
Get through your deadline-driven, multi-tasking day using the latest AMD processor, featuring an AI co-processor embedded in the APU. This HP ProDesk 2 Tower G1a provides the vital combination of performance, power consumption, and value.[2,3]

Advanced wireless connectivity
Get a great connectivity experience, even in crowded wireless networks, with fast, reliable Wi-Fi 6E. The internal antenna helps improve range and optimize signal strength, especially in larger areas or spaces with obstacles.[10]

Work-ready performance
Install multiple apps and on-device virtualization on a desktop built for enhanced performance with up to 64 GB memory and store more information locally with up to 1 TB NVMe SSD storage.[4,11,12]

Help secure critical data
The discrete Trusted Platform Module (TPM) provides hardware-based encryption keys to help secure your data, e-mail, and user credentials.

Optimized port layout for easy access
Enable use of multiple peripherals with up to 10 ports. This PC includes an easy access front USB-C® with 2 USB 3.1 and 2 USB 3.2 ports and 3 rear USB 2.0 ports with 2 optional USB 2.0 ports. A DisplayPort™ and HDMI port provide display flexibility.[13,14]

Flexible options to meet your computing needs
Add an optional DVD/DVD-RW4, 3.5-inch HDD, or serial port when special resources are needed to effectively handle a range of tasks requiring these features.[4]

Expandable, optimized compatibility via PCIe slot
Add more functionality to your PC, increasing input/output options with PCIe, a high-speed interface. Supporting a PS/2 adapter, 4 serial ports, or 4 parallel ports to connect legacy hardware, networking equipment, and more.[15]

Set power efficiency with varied power supply options
Get the power supply that best fits your power requirements and computing needs for expandability and choice of graphics cards. Choose between 180 W, 280 W and 400 W certified as 80 PLUS Platinum.[16]

Prevent chassis intrusion with a padlock loop
Keep bad actors from accessing the internal components of this tower PC. Simply place a padlock through the loop and lock to keep the chassis cover in place.[5]

Secure your PC hardware and accessories with cable locks
Deter theft of your PC and peripherals with an integrated cable lock slot and a slim cable lock slot on this ProDesk 2 Tower G1a. Simply connect your cable to the integrated slot and lock to help protect your computing investment.[5]

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Technical specifications

Available Operating Systems	Windows 11 Pro[1] Windows 11 Home – HP recommends Windows 11 Pro for business[1] Windows 11 Home Single Language – HP recommends Windows 11 Pro for business[1,2,20] FreeDOS
Processor family	AMD Ryzen™ 8000 series processor AMD Ryzen™ PRO 8000 series processor
Available Processors[4,20]	AMD Ryzen™ 7 8700G (4.2 GHz base clock, up to 5.1 GHz max boost clock, 24 MB L3 cache, 8 cores,16 threads) with AMD Radeon™ 760M Graphics AMD Ryzen™ 5 PRO 8500G (up to 5.0 GHz max boost clock, 22 MB L3 cache, 6 cores,12 threads) with AMD Radeon™ 740M Graphics AMD Ryzen™ 5 8500G (up to 5.0 GHz max boost clock, 22 MB L3 cache, 6 cores,12 threads) with AMD Radeon™ 740M Graphics AMD Ryzen™ 5 8400F (up to 4.7 GHz max boost clock, 16 MB L3 cache, 6 cores,12 threads) AMD Ryzen™ 3 8300G (up to 4.9 GHz max boost clock,12 MB L3 cache, 4 cores, 8 threads) with AMD Radeon™ 740M Graphics
Chipset	AMD Pro 665
Product colour	Jack black
Form factor	Tower
Maximum memory	24 GB DDR5-5600 MT/s; 24 GB DDR5-4800 MT/s; 48 GB DDR5-5600 MT/s; 48 GB DDR5-4800 MT/s; [6] Transfer rates up to 5200 MT/s.
Memory slots	2 DIMM
Internal storage	up to 2 TB 7200 rpm SATA HDD[7,20,21] 256 GB up to 2 TB PCIe® NVMe™ M.2 SSD[7,21] 512 GB up to 2 TB PCIe® NVMe™ TLC M.2 SSD[7,20,21]
Optical drive	HP 9.5 mm Slim DVD-Writer; HP 9.5 mm Slim DVD-ROM [8]
Available Graphics	Integrated: AMD RDNA™ 3 Graphics Discrete: AMD Radeon™ RX 6300 Graphics (2 GB GDDR6 dedicated)
Audio	Realtek ALC3602-CG codec, combo audio jack with CTIA and OMTP headset support, audio line in and out, microphone in and re-tasking on jacks.
Expansion slots	2 M.2; 1 PCIe 3 x1; 1 PCIe 4 x16 [9,10,11] (1 M.2 slot for WLAN and 1 M.2 2242/2280 slot for storage.)
Ports and connectors	Front: 1 USB Type-C® 5Gbps signaling rate; 2 USB Type-A 10Gbps signaling rate; 2 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo ; Rear: 1 HDMI 1.4b; 1 DisplayPort™ 1.4a; 1 RJ-45; 1 power connector; 1 audio line-in/line-out; 3 USB 2.0 Type-A; 1 serial (optional)[11,20] ; Optional Ports: 1 4x serial; 1 parallel; 1 PS/2[20]
Input devices	HP Wired Desktop 320K Keyboard; HP 125 Antimicrobial Wired Keyboard; HP 655 Wireless Keyboard and mouse combo; HP USB Business Slim Wired SmartCard CCID Keyboard; HP 125 Wired Mouse; HP 128 Laser Wired Mouse; HP 125 Antimicrobial Wired Mouse; HP USB Hardened Optical Wired Mouse; HP Wired 320M Mouse
Communications	LAN: Integrated 10/100/1000M GbE; Intel® I226-T1 PCIe® 2.5 GbE ; WLAN: Realtek Wi-Fi 6E RTL8852CE 802.11a/b/g/n/ax (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
Drive Bays	One 3.5" HDD [20,22]
Environmental	Operating temperature: 5 to 35°C; Operating humidity: 15 to 80% RH
Software	HP Documentation[12,20]; HP Setup Integrated OOBE; HP Support Assistant[13]; HP System Event Utility; McAfee Online Protection 30-day trial; Buy Microsoft Office (sold separately)
Security management	Padlock loop; Trusted Platform Module (TPM) 2.0; Integrated accessories cable lock; Slim cable lock

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Power	180 W internal power supply, up to 90% efficiency, active PFC; 400 W internal power supply, up to 92% efficiency, active PFC; 280 W internal power adapter, up to 92% efficiency, active PFC[17]
Dimensions	15.5 x 30.8 x 33.7 cm; (System dimensions may fluctuate due to configuration and manufacturing variances.); 49.9 x 40 x 28.7 cm (Package)
Weight	6.10 kg; (Exact weight depends on configuration.)
Ecolabels	CECP; EPEAT® registered; CEL; Ukraine EE; Korea MEPS; Vietnam MEPS; ErP Lot 3[18]
Energy star certified	ENERGY STAR® certified
Sustainable impact specifications	46% post-consumer recycled plastic[19]

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Footnotes

Messaging Footnotes

[14] DisplayPort and HDMI ports are optional features that must be configured at the time of purchase. Displays not included and sold separately.

[15] I/O port options must be configured at the time of purchase. Hardware and networking equipment sold separately and not included.

[16] Wattage must be configured at the time of purchase.

[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] 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, software and other factors.

[4] Optional feature that must be configured at the time of purchase.

[5] Cables and locks sold separately and not included.

[6] 100 percent outer box packaging made from sustainably sourced certified and recycled fibers. Fiber cushions made from 100 percent recycled wood fiber and organic material. Any plastic cushions are made from >90 percent recycled plastic.

[7] Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit http://www.epeat.net for more information .

[8] ENERGY STAR and the ENERGY STAR logo are registered trademarks of the U.S. Environmental Protection Agency.

[9] Microsoft Copilot requires Windows 11. Some features require an NPU. Timing and availability will be dependent on Microsoft and varies by market and device. Requires Microsoft account to log in. Where Copilot is not available, the Copilot key will lead to the Bing search engine. See http://aka.ms/WindowsAIFeatures .

[10] 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.

[11] Internet access required and sold separately. Some apps may require purchase.

[12] For storage drives, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 8.0 GB is not user available.

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] This system is preinstalled with Windows 11 software and also comes with a license for Windows 11 Pro software and provision for recovery software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.

[4] 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. Intel's numbering, branding and/or naming is not a measurement of higher performance.

[6] Full availability of 4 GB or more of memory requires a 64-bit operating system. With Windows 32-bit operating systems, the amount of usable memory is dependent upon your configuration, so that above 3 GB all memory may not be available due to system resource requirements. Memory modules support data transfer rates up to 5200 MT/s; actual data rate is determined by the system's configured processor. See processor specifications for supported memory data rate.

[7] For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows) of disk is reserved for system recovery software.

[8] Optical drives are optional or add on features. Duplication of copyrighted material is strictly prohibited. Actual speeds may vary. Double Layer media compatibility will widely vary with some home DVD players and DVD-ROM drives.

[9] Card sold separately.

[10] 4 serial port: optional via PCIe slot, and only available for specific region.

[11] HDMI/VGA ports will be covered up when a non-internal graphics processor is configured on shipped machine.

[12] McAfee LiveSafe™: subscription required.

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

[14] Security cable lock supported (sold separately).

[15] TPM feature will be supported on machine pre-configured with FreeDOS, and will be default set as enabled in BIOS setup menu if the machine is dTPM, but will be default set as disabled in BIOS setup menu if the machine is fTPM.

[16] Physical cable lock for cable management.

[17] All power supplies are not available in every region.

[18] Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information.

[19] Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.

[20] Available on select skus only.

[21] Starting November 1, 2023, HP PCs with Windows require Windows to be installed on SSD. HDD can only be configured as additional data drives and not as the boot drive.

[22] One 3.5" HDD only for systems with AMD processors.

[23] ENERGY STAR and the ENERGY STAR logo are registered trademarks of the U.S. Environmental Protection Agency.

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