HP EliteDesk 7 G1a Next-Gen AI Thin Client

AI-enhanced performance aligned with cloud-based simplicity

HP EliteDesk 7 G1a AI Thin Client transforms the cloud-first desktop experience for business-critical work, infusing centralized computing with swift, secure processing and AI-enhanced performance[1], smooth multi-display support, and a compact design.

Infuse cloud-based work with AMD speed.

Infuse cloud-based infrastructures with AI-enhanced AMD processing[1,2] to deliver a thin client experience that feels fast, effortless, and versatile.

Always-on, smart security for work-essential data privacy.

Lock down your data and your device, pairing cloud-based OS options with HP Wolf Security for Business[3], Sure Start[4], and HP Tamper Lock.[5]

Build a flexible fleet with simplified management.

Shape workspaces without giving up scalability with a compact design, two rear flex ports, VESA® mounting[6], and HP Wolf CEM[7] flexible fleet management.



*Product image may differ from actual product

Sustainability in action

Designed with purpose.

Designed to be EPEAT® registered[12] and ENERGY STAR® certified[13]— all in packaging with certified or recycled sources of paper.[14]

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Featuring

Infuse cloud-based work with AMD speed.
Created to infuse cloud-based infrastructures with AI-enhanced AMD processing[1,2] to deliver a thin client experience that feels fast, effortless, and versatile with DDR5 memory[3], optional Wi-Fi 7[4,5] and support for up to six 4K displays.[6]

Always-on, smart security for work-essential data privacy.
Lock down your data and your device, pairing layered security from boot to shutdown with cloud-based OS options and HP Wolf Security[7] using HP Sure Start[8] to protect the BIOS and HP Tamper Lock[9] to help prevent physical tampering.

Build a flexible fleet with simplified management.
Help essential teams shape their workspace without compromising scalability and performance with a compact design, two rear flex ports, and VESA® mounting[10] with up to six orientations, while HP Wolf CEM[11] powers flexible fleet management.

Designed with purpose.
Designed to be EPEAT® registered[12]and ENERGY STAR® certified[13]– all in packaging with certified or recycled sources of paper.[14]

Multiple OS Support
Adapt to your organization's unique needs, choosing your operating systems from available Windows 11 IoT, IGEL OS, or HP ThinPro for a read-only OS that lets you optimize workflows and establish secure cloud endpoints for your business.[3,15]

Commanding AMD processor
Power through your work with a reliable AMD Ryzen™ processor, featuring an up to 50 TOPS NPU that maximizes efficiency for a fast, responsive experience.[1,2]

Fast and efficient Wi-Fi 7
Get a fast and reliable connection in dense wireless environments with optional gigabit data rate Wi-Fi 7.[4,5]

Support up to six 4K displays
Enhance productivity working across multiple screens. The HP EliteDesk 7 G1a AI Thin Client supports up to six 4K displays for an expansive view of your workflows with crisp, clean definition.[6]

Optimize your device with a choice of ports
Flexible I/O adapts as needs evolve with front and rear USB-A and USB-C® ports, DisplayPort and RJ45 support, and dual flex ports for optional Thunderbolt™ 4 or Wi-Fi antenna—making it easy to connect displays, peripherals, and networks.[3]

Filter out unauthorized changes to endpoints
Ease the burden of IT admins in Windows environments with HP Write Manager, a simple write filter solution that works across multiple Windows versions and helps prevent unauthorized changes to mission-critical endpoints.[16]

Self-healing BIOS
Firmware attacks can completely devastate your device. Stay protected with HP Sure Start with Runtime Intrusion Detection, the self-healing BIOS that automatically recovers itself from attacks or corruption.[8]

Help secure critical data
The hardware Trusted Platform Module (TPM) provides hardware-based encryption keys to help secure your data, e-mail, and user credentials.[17]

Tamper Lock Intrusion Detection at the BIOS Level
Tamper Lock intrusion detection defends against physical breaches, automatically alerting IT, shutting down the system and rendering local data inaccessible if attackers attempt to open device casing and compromise internal components.[9]

Edge-to-edge endpoint control from anywhere
HP Wolf Cloud Endpoint Manager empowers IT to orchestrate their Cloud Client fleet from anywhere, providing complete management for thousands of devices. It's secure, user-friendly, and designed for hybrid work environments.[11]

Detect and stop attacks on your PC before they happen
Malware is evolving rapidly, and traditional antivirus can't always recognize new attacks. Protect your PC against never-before-seen attacks with HP Sure Sense, which uses deep learning AI and machine learning to provide exceptional protection.[18]

Easy sanitization for your most sensitive data
Permanently remove sensitive data from local storage before device reassignment, repurposing or disposal with BIOS-level sanitization from HP Secure Erase. Optimized for SSDs and NIST SP800-88 compliant, it's designed for secure workflows.[19]

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Technical specifications

Available Operating Systems	Windows 11 IoT Enterprise 2024 LTSC[1] HP Smart Zero Core HP ThinPro
Processor family[3,5]	AMD Ryzen™ Embedded
Browser	Mozilla Firefox (for models with HP ThinPro); Microsoft Edge (for models with Windows 11 IoT Enterprise LTSC 2024); Google Chrome Browser; Google Chrome via online download (for models with Microsoft Windows 11 IoT Enterprise 2024)
Available Processors[3,5,7]	AMD Ryzen™ AI Embedded P132 (up to 4.5 GHz max boost clock, 8 MB L3 cache, 6 cores, 12 threads) with AMD Radeon™ Graphics and AMD Ryzen™ AI (50 NPU TOPS)
Product colour	Black
Maximum memory	32 GB DDR5-5600 MHz RAM Transfer rates up to 5600 MT/s
Memory slots	2 SODIMM
Internal storage	64 GB up to 512 GB NAND flash memory; non-volatile
Display support	Up to four displays UHD/4K with four DisplayPort™ 1.4 video outputs provided at the back of the system. Optional support for up to 6 displays using a discrete graphics card providing an additional two video outputs at the back of the system (1 DisplayPort™ and 1 HDMI).
Available Graphics	Integrated: AMD Radeon™ Graphics [2]
Audio	Internal amplified speaker system for basic audio playback
Ports and connectors	Front: 1 USB Type-C® 10Gbps signaling rate; 2 USB Type-A 5Gbps signaling rate; 1 universal audio jack ; Back: 2 USB Type-A 10Gbps signaling rate; 1 RJ-45; 2 USB Type-A 480Mbps signaling rate; 4 DisplayPort™ 1.4 ; Optional ports: 1 HDMI; 1 VGA; 1 external antenna connector; 2 USB Type-A 5Gbps signaling rate; 1 USB Type-C® 10Gbps signaling rate; 1 DisplayPort™; 1 Powered Native Serial; 1 USB Fiber (PoE); 1 RJ45; 1 USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, Alt Mode DisplayPort™)
Input devices	HP 275C Wireless Keyboard Mouse combo; HP 175 Wired Keyboard; HP 375 Secure SmartCard Keyboard; HP Wired 320M Mouse; HP 125 Anti-microbial Mouse; HP 125 Wired Mouse[10]
Communications	WLAN: MediaTek Wi-Fi 6E RZ616 (2x2) and Bluetooth® 5.3 wireless card with external antenna; MediaTek Wi-Fi 7 MT7925 (2x2) and Bluetooth® 6.0 wireless card; MediaTek Wi-Fi 7 MT7925 (2x2) and Bluetooth® 6.0 AIM-T wireless card[4,9]
Software	HP Device Manager[11,12,15,16]; HP Smart Shell[11,12,13,15]; HP Easy Tools[11,12,15]; HP Smart Zero Client Services[11,12,15]; HP ThinUpdate[11,12,15]; HP True Graphics[11,12,14,15]; Microsoft SCCM/EDM Agent[11,12,15]
Security management	HP Tamper Lock[18]; HP Wolf Security for Business includes: HP Sure Start, HP Secure Erase[17,19,57]; HP Sure Admin[20]; HP Sure Recover[56]

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Technical specifications

Power	90 W smart external power adapter; 100 W external power adapter
Dimensions	6.97 x 7.13 x 1.35 in; 17.7 x 18.1 x 3.4 cm
Weight	Starting at 2.97 lb; Starting at 1.35 kg; (Weight will vary depending on configuration.)
Energy star certified	ENERGY STAR® certified
Certification and compliance	EMC; EN 60601-1-2
EPEAT registered	EPEAT registered configurations available[6]

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Footnotes

Messaging Footnotes

[14] Fiber used in paper-based packaging is sourced from certified or recycled sources per HP's Paper Sourcing Policy.
[15] HP Thin Pro is configurable at purchase.
[16] Requires a solenoid lock, not included and sold separately.
[17] TPM 2.0 is limited on HP ThinPro/HP Smart Zero, and functionality is dependent upon use of a customer-enabled application that can locate the TPM chip.
[1] 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.
[3] Optional feature that must be configured at the time of purchase.
[4] 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.
[5] 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.
[6] Four 4K displays supported. Use of six 4K displays requires a GFX AMD RX 6300 2GB GDDR6 Graphics card, sold separately and not included.
[7] HP Wolf Security for Business is supported on HP Thin Client platforms with Windows IoT on AMD Ryzen processors and includes Sure Start, Secure Erase, Sure Admin, Sure Recover, Sure Run, Tamper Lock, Sure Click and Sure Sense. HP Wolf Security for Business with HP ThinPro OS supports Sure Start, Secure Erase, Sure Admin, Sure Recover, Sure Run, and Tamper Lock.
[8] HP Sure Start is available on select HP devices. See product specifications for availability.
[9] HP Tamper Lock must be configured at the factory and requires a supervisor password be established prior to use.
[10] Mounting hardware sold separately.
[11] HP Wolf CEM is an optional feature that requires the purchase of a license, Windows 11 IoT Enterprise LTSC 2024 or later or HP ThinPro 8.1 Operating System or later on endpoint and Internet access. Visit https://www.hp.com/us-en/solutions/cloud-computing/thin-client-software.html for Terms of Service datasheet, feature listings.
[12] EPEAT tier levels may vary by country. See www.epeat.net for registration status and tier levels by country.
[18] HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS.
[19] For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method.

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. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com .
[2] Graphics chipset uses part of the total system memory (RAM) for graphics performance. System memory dedicated to graphics performance is not available for other use by other programs.
[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] 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.
[5] 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.
[6] EPEAT tier levels may vary by country. See www.epeat.net for registration status and tier levels by country.
[7] Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.
[9] Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs.
[10] HP 125 Anti-microbial Mouse sold only in China.
[11] Requires installation and download from HP.com .
[12] Requires Windows 10 IoT Enterprise LTSC 2016 or later or HP ThinPro 7.2 SP11 operating system or later on endpoint and Internet access. Visit https://www.hp.com/us-en/solutions/cloud-computing/thin-client-software.html to download or view the complete details and configuration requirements. See datasheet for feature listings as they become available at the following URL: https://www8.hp.com/h20195/v2/GetDocument.aspx?docname=c08045808 .
[13] HP Smart Shell is currently available on HP Thin Clients with a Windows Embedded OS.
[14] HP True Graphics requires an HP Thin Client with an HP ThinPro 5.0 or higher operating system (combo OS with HP Smart Zero Core begins at v5.0), AMD processing technology, and a Citrix® virtual desktop infrastructure–XenApp® or XenDesktop® v7.0 or higher or WES 7E 32-bit/Windows 10 IoT with a Citrix® 4.4 receiver and Citrix® virtual desktop infrastructure–XenApp® or XenDesktop® v7.0 or higher. HP True Graphics is preinstalled on the OS starting with HP ThinPro 5.2. See product QuickSpecs for exact compatibility.
[15] Software is dependent on operating system installed.

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Footnotes

Specification Footnotes

[16] Internet access required and sold separately.
[17] HP Wolf Security for Business is supported on HP Thin Client platforms with Windows IoT on AMD Ryzen processors and includes Sure Start, Secure Erase, Sure Admin, Sure Recover, Sure Run, Tamper Lock, Sure Click and Sure Sense. HP Wolf Security for Business with HP ThinPro OS supports Sure Start, Secure Erase, Sure Admin, Sure Recover, Sure Run, and Tamper Lock.
[18] HP Tamper Lock must be enabled by the customer or your administrator.
[19] HP Secure Erase 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™.
[20] 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.
[56] HP Sure Recover is available on select HP PCs and requires Windows 10 or Windows 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. Network based recovery using Wi-Fi is only available on select PCs.
[57] HP Sure Start is available on select HP PCs and requires Windows 10 and higher.