

HP Engage Flex Mini G2 Retail System

An operations powerhouse that fits anywhere.

From hotel check-ins to store check-outs, back-office operations to digital customer experiences, the HP Engage Flex Mini G2 is built to power your business. Get big performance in an incredibly compact device and endless configuration options to tailor your system for your specific needs.

Power in a compact size

This mighty, AI-enhanced powerhouse delivers incredible performance¹ without taking up valuable space. Unlock new levels of power efficiency and seamless operations with up to an Intel® Core™ Ultra 9 processor², 64GB memory, and 4TB PCIe NVMe storage³.

Endlessly configurable

Design a system for your unique business operations. The Engage Flex Mini G2 is configurable across storage, memory, processor, OS and ports. Customize further with the Engage Advanced Fanless Hub and connect your peripherals with just one cable.

Built to last, with industry leading security.

Deploy with confidence over extended roll-outs with a system designed to pass rigorous military-standard testing⁴ and a 5-year lifecycle. HP Wolf Security for Business creates a hardware-enforced, always-on defense to protect from modern threats⁵.



*Product image may differ from actual product

Sustainability in action

Sustainability in Action

HP is innovating with purpose and intention to drive impactful, positive, lasting change. This device is crafted with at least 50% post-consumer recycled plastic⁶, is ENERGY STAR® certified and EPEAT®⁷ registered, and comes in recycled packaging⁸.



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Featuring

Compact size

Save space with a compact yet powerful device that easily fits in corners and on desks.

Intel® Core™ Ultra processor

Powerful and intelligent computing for retail, factory, or back-office operations allowing users to focus on driving your business forward.^{1,9}

Memory and Storage

Get fast access and quick load-time of data, with up to 96 GB memory and expandable 4TB PCIe NVMe storage options.³

Configuration options

Customize to your business needs with multiple options across storage, memory, processor, OS, and new Flex Ports.

Engage Advanced Fanless Hub

The optional HP Engage Advanced Fanless Hub connects with just one cable and provides numerous ports and I/O options to connect additional peripherals.

Long life cycle

Get consistent output and stability over 60-month production lifecycles and staggered customer roll-outs

Military standard testing

Designed for ultimate durability, this system undergoes brutal MIL-STD 810H tests to help ensure it can withstand demanding environments and heavy usage.⁴

HP Wolf Security for Business

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.⁵

Made with recycled materials

All plastic contains at least 50% post-consumer recycled content.⁶

Recycled packaging

100% of HP paper-based packaging is from recycled or certified sustainable sources.¹⁰

Environmental certifications

Recognized as sustainably manufactured with ENERGY STAR® certification and EPEAT® registration in 23 countries.⁷



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Technical specifications

Available Operating Systems	Windows 11 Pro ¹ Windows 11 IoT Enterprise 2024 LTSC ¹ FreeDOS
Processor family^{2,3}	Intel® Core™ Ultra 9 processor Intel® Core™ Ultra 7 processor Intel® Core™ Ultra 5 processor
Available Processors^{2,3,4,5}	Intel® Core™ Ultra 5 235T (2.2 GHz base frequency, up to 5 GHz Intel® Turbo Boost Technology, 24 MB L3 cache, 14 cores, 14 threads) with Intel® UHD Graphics, supports Intel® vPro® Technology Intel® Core™ Ultra 7 265T (1.5G Hz base frequency, up to 5.3G Hz with Intel® Turbo Boost Max Technology, 30 MB L3 cache, 20 cores, 20 threads) with Intel® UHD Graphics, supports Intel® vPro® Technology Intel® Core™ Ultra 9 285T (1.4 GHz base frequency, up to 5.4 GHz with Intel® Turbo Boost Max Technology, 36 MB L3 cache, 24 cores, threads) with Intel® UHD Graphics 4Xe, supports Intel® vPro® Technology
Form factor	Mini
Maximum memory	64 GB DDR5-5600 MT/s; ⁶ Transfer rates up to 5600 MT/s.
Memory slots	2 SODIMM
Internal storage	up to 256 GB PCIe® NVMe™ OPAL 2 M.2 SSD ⁷ up to 512 GB PCIe® NVMe™ SED Opal 2 TLC M.2 SSD ⁷ 256 GB up to 1 TB PCIe® NVMe™ M.2 SSD ⁷ 512 GB up to 2 TB PCIe® NVMe™ TLC M.2 SSD ⁷
Available Graphics	Integrated: Intel® Graphics (Integrated graphics will depend on processor.)
Audio	Realtek ALC3252 codec, universal audio jack, headset and headphone front ports (3.5 mm), multi-streaming capable
Expansion slots	1 M.2 2230; 2 M.2 2280 (1 M.2 slot for WLAN and 2 M.2 2280 slots for storage.)
Ports and connectors	Front: 1 USB Type-C® 20Gbps signaling rate; 2 USB Type-A 10Gbps signaling rate; 1 headphone/microphone combo ^{8,9,10} ; Rear: 2 USB Type-A 10Gbps signaling rate; 1 HDMI 2.1; 1 RJ-45; 1 external antenna connector; 2 DisplayPort™ 2.1; 1 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (100W USB Power Delivery, DisplayPort™ 2.1); Optional Ports: Flex IO port 1 - choose one of the following options: 1 DisplayPort™ 2.1, 1 HDMI 2.1, 1 VGA, 1 serial, 2.5 Gbps NIC; 1Gbps Fiber NIC, dual USB Type A 5Gbps signaling rate, dual USB Type-C® 20Gbps signaling rate. Flex IO port 2 - choose one of the following options: 2 USB Type-A 5Gbps signaling rate, serial, or video port extender
Input devices	HP Wired Desktop 320K Keyboard; HP 125 USB Black Wired Keyboard; HP 125 Antimicrobial Wired Keyboard; HP 125 Wired Mouse; HP Wired 320M Mouse; HP 125 Antimicrobial Wired Mouse; HP 128 Wired Laser mouse
Communications	LAN: Intel® I219LM GbE ; WLAN: Realtek Wi-Fi 6E RTL8852CE 802.11a/b/g/n/ax (2x2) and Bluetooth® 5.3 wireless card; Intel® Wi-Fi 7 BE200 (2x2) and Bluetooth® 5.4 wireless card, vPro®; Intel® Wi-Fi 7 BE200 (2x2) and Bluetooth® 5.4 wireless card, non-vPro ^{11,12,22}
Environmental	Operating temperature: 10 to 35°C; Operating humidity: 10 to 90% RH
Software	HP Noise Cancellation Software; Buy Microsoft Office (sold separately); HP Connection Optimizer ²⁰ ; HP Desktop Support Utilities; HP Documentation; HP Hotkey support; HP Notifications; HP UEFI BIOS Certification level 2.7B; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Services Scan; HP Setup Integrated OOBE; HP Smart Support; HP Support Assistant; myHP with Multicamera support ²¹ ; HSA Fusion for Commercial; HSA Telemetry for Commercial; Edge Customization; HP Notifications
Security management	HP Sure Admin ¹⁸ ; HP Sure Click ²⁴ ; HP Sure Run ²⁷ ; HP Sure Recover; HP Sure Start ²⁸ ; HP Tamper Lock ²³ ; Secured-Core PC Enable; Absolute Persistence Module ³⁰ ; HP BIOS Recovery; BIOS Update via Network; HP BIOSphere ²⁹ ; HP Secure Erase; HP DriveLock and Automatic DriveLock; Support for chassis padlocks and cable lock devices
Security Software Licenses	HP Wolf Pro Security Edition ³¹



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Technical specifications

Management features	HP Client Catalog (download) ⁵⁷ ; HP Client Management Script Library (download) ¹⁹ ; HP Cloud Recovery ²⁵ ; HP Driver Packs (download) ¹⁴ ; HP Image Assistant (download) ¹⁵ ; HP Manageability Integration Kit (download) ⁵⁶ ; HP Patch Assistant (download) ¹⁷ ; HP Connect for Microsoft Endpoint Manager ¹³
Power	90 W external power adapter, up to 89% efficiency; 100 W external power adapter, up to 89% efficiency, active PFC
Dimensions	6.97 x 7.13 x 1.34 in; 17.7 x 18.1 x 3.4 cm; 19.61 x 9.25 x 5.20 in 49.8 x 23.5 x 13.2 cm (Package)
Weight	3.13 lb; 1.42 kg; (Exact weight depends on configuration.)
Ecolabels	EPEAT® Gold with Climate+ ³²
Energy star certified	ENERGY STAR® certified
Sustainable impact specifications	Low halogen ^{26,33,34,35}



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Footnotes

Messaging Footnotes

- 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 NPU interfering 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. Intel's numbering, branding and/or naming is not a measurement of higher performance.
- ³ For storage drives, TB = 1 trillion bytes. Actual formatted capacity is less. Portion of internal storage is reserved for preloaded content.
- ⁴ MIL-STD-810H testing is not intended to demonstrate fitness of U.S. Department of Defense (DoD) contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental requires an optional HP Accidental Damage Protection Care Pack.
- ⁵ 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, RPOS and Workstation products. See product details for included security features.
- ⁶ 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.
- ⁷ Based on US EPEAT[®] registration according to IEEE 1680.1-2018 EPEAT[®]. Status varies by country. Visit www.epeat.net for more information.
- ⁸ 100% of HP paper-based packaging is from recycled or certified sustainable sources. 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 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.
- ¹⁰ 100% of HP paper-based packaging is from recycled or certified sustainable sources. 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.

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 10 is automatically updated, which is always enabled. 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. 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. Intel's numbering, branding and/or naming is not a measurement of higher performance.
- ⁴ Intel vPro[®] requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or Wi-Fi 6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vPro[®] Essentials and Enterprise vary. See <http://intel.com/vpro>.
- ⁵ 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. See <http://www.intel.com/technology/turboboost> for more information.
- ⁶ Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.
- ⁷ For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) is reserved for system recovery software.
- ⁸ HP 140W port only compatible with the 140W cable included with the product. Cable required for the HP Engage One Pro to operate.
- ⁹ LAN - in Retail I/O Connectivity Base.
- ¹⁰ Internal Port is next to the M.2 port.
- ¹¹ 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.
- ¹² 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. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.
- ¹³ 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.
- ¹⁴ HP Driver Packs not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>.
- ¹⁵ HP Image Assistant not preinstalled, however available for download at <https://ftp.ext.hp.com/pub/caps-softpaq/cmit/HPIA.html>.
- ¹⁶ For further details please refer to Quick Specs document.
- ¹⁷ 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 <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>.
- ¹⁸ HP Sure Admin requires Windows 10 or 11 Pro 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.
- ¹⁹ HP Client Management Script Library <https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools>.
- ²⁰ HP Connection Optimizer requires Windows 10 and Windows 11.
- ²¹ myHP requires Windows OS.
- ²² 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.
- ²³ HP Tamper Lock must be enabled by the customer or your administrator.
- ²⁴ HP Sure Click requires Intel Core i3, i5, or i7 processor, Win 11 Pro, Windows 10 Pro or Windows 11 IoT Enterprise 2024, Win 10 IoT Enterprise 2019 LTSC; and is not supported on Win 10 IoT Enterprise 2016 LTSC. See <https://bit.ly/2PrLT6A>, SureClick for complete details.
- ²⁵ 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. Detail, please refer to: <https://support.hp.com/us-en/document/c05115630>.
- ²⁶ ITE Derived Closed Loop Plastic percentage is based on the definition set in the IEEE 1680.1-2018 standard.
- ²⁷ HP Sure Run is available on select HP PCs and requires Windows 10 and higher.
- ²⁸ HP Sure Start is available on select HP PCs and requires Windows 10 and higher.
- ²⁹ HP BIOSphere Gen6 features may vary depending on the platform and configuration.
- ³⁰ Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: <http://www.absolute.com/company/legal/agreements/computrace-agreement>. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
- ³¹ 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.
- ³² EPEAT[®] Gold with Climate+ registered configurations available. See www.epeat.net for registration status and tier levels by country.
- ³³ External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen. Standard configurations meet the low halogen specifications however, some custom feature components may not meet the same Low Halogen standard. A standard configuration includes display head, Engage Pro stand, stability plate and I/O Connectivity Base.
- ³⁴ Percentage of ocean-bound plastic contained in each component varies by product.
- ³⁵ Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.
- ³⁶ HP Manageability Integration Kit can be downloaded from <http://www.hp.com/go/clientmanagement>.
- ³⁷ HP Client Catalog not preinstalled, however available for download at <https://www.hp.com/us-en/solutions/client-management-solutions.html>.

