

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, 96GB 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 Windows 11 IoT Enterprise 2024 LTSC FreeDOS
Processor family	Intel® Core™ Ultra 9 processor Intel® Core™ Ultra 7 processor Intel® Core™ Ultra 5 processor
Form factor	Mini
Maximum memory	64 GB DDR5-5600 MT/s Transfer rates up to 5600 MT/s.
Memory slots	2 SODIMM
Internal storage	256 GB up to 1 TB PCIe® NVMe™ M.2 SSD 512 GB up to 2 TB PCIe® NVMe™ TLC M.2 SSD 256 GB PCIe® NVMe™ Opal 2 M.2 SSD 512 GB PCIe® NVMe™ SED Opal 2 TLC M.2 SSD
Available Graphics	Integrated: (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 ; Rear: 2 USB Type-A 10Gbps signaling rate; 1 HDMI 2.1; 2 DisplayPort™ 2.1 HBR3; Thunderbolt™ 4.0 with Alt Mode DisplayPort™ and 100W Power intake; 1 RJ-45; 1 external antenna connector 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 Superspeed USB 5Gbps signaling rate, Dual USB Type C 20 Gbps; 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
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®
Environmental	Operating temperature: 10 to 35°C; Operating humidity: 10 to 90% RH
Software	Buy Microsoft Office (sold separately); HP Connection Optimizer; 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; HSA Fusion for Commercial; HSA Telemetry for Commercial; HP Noise Cancellation Software; Edge Customization; HP Notifications; HP PC Hardware Diagnostics UEFI
Security management	HP Sure Admin; HP Sure Click; HP Sure Run; HP Sure Recover; HP Sure Start; HP Tamper Lock; Secured-Core PC Enable; Absolute Persistence Module; HP BIOS Recovery; BIOS Update via Network; HP BIOSphere; HP Secure Erase; HP DriveLock and Automatic DriveLock; Support for chassis padlocks and cable lock devices
Security Software Licenses	HP Wolf Pro Security Edition



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Management features	HP Client Catalog (download); HP Client Management Script Library (download); HP Cloud Recovery; HP Connect for Microsoft Endpoint Manager; HP Driver Packs (download); HP Image Assistant (download); HP Manageability Integration Kit (download); HP Patch Assistant (download)
Dimensions	19.61 x 9.25 x 5.20 in 49.8 x 23.5 x 13.2 cm (Package)
Ecolabels	EPEAT® Gold with Climate+
Energy star certified	ENERGY STAR® certified
Sustainable impact specifications	Low halogen



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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 inference 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.

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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 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 Minimum one connectivity hub is required.

¹⁴ UHD content required to view UHD images.

¹⁵ Actual brightness will be lower with touch screen.

¹⁶ For further details please refer to Quick Specs document.

¹⁷ HP Client Security Manager Gen7 requires Windows.

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 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.

²⁰ HP Connection Optimizer requires Windows 10 and Windows 11.

²¹ myHP requires Windows OS.

²² Wireless cards are optional or add-on features and requires separately purchased wireless access point and internet service. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ac WLAN 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 LTSP. See https://bit.ly/2PrLT6A_SureClick for complete details.

²⁵ HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS.

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.

