



# HP Engage Flex Mini G2 Retail System (C8BW8UT)

## Overview

**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 performance[1] without taking up valuable space. Unlock new levels of power efficiency and seamless operations with up to an Intel® Core™ Ultra 9 processor[2], 64GB memory, and 4TB PCIe NVMe storage[3].

### Built to last, with industry leading security.

Deploy with confidence over extended roll-outs with a system designed to pass rigorous military-standard testing[4] and a 5-year lifecycle. HP Wolf Security for Business creates a hardware-enforced, always-on defense to protect from modern threats[5].

### 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.

### 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 plastic[6], is ENERGY STAR® certified and EPEAT®[7] registered, and comes in recycled packaging[8].

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[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 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. 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](http://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.*

## Specifications

|  |  |
|--|--|
| <b>Form factor</b>                       | Mini   |
| <b>Operating system</b>                  | Windows 11 IoT Enterprise 2024 LTSC  |
| <b>Processor family</b>                  | Intel® Core™ Ultra 5 processor   |
| <b>Processor</b>                         | Intel® Core™ Ultra 5 235T (up to 5.0 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 14 cores, 14 threads) <sup>[6,7]</sup>  |
| <b>Processor technology</b>              | Intel® vPro® Technology  |
| <b>Memory</b>                            | 16 GB DDR5-5600 MT/s (1 x 16 GB)   |
| <b>Memory Slots</b>                      | 2 SODIMM   |
| <b>Internal Storage</b>                  | 256 GB PCIe® NVMe™ M.2 SSD   |
| <b>Graphics</b>                          | Integrated   |
| <b>Graphics (integrated)</b>             | Intel® Graphics  |
| <b>Audio</b>                             | Realtek ALC3252 codec, universal audio jack, headset and headphone front ports (3.5 mm), multi-streaming capable   |
| <b>Dimensions (W x D x H)</b>            | 17.7 x 18.1 x 3.4 cm   |
| <b>Dimensions (W x D x H)</b>            | 6.97 x 7.13 x 1.34 in  |
| <b>Weight</b>                            | 1.42 kg<br><i>(Exact weight depends on configuration.)</i>   |
| <b>Weight</b>                            | 3.13 lb<br><i>(Exact weight depends on configuration.)</i>   |
| <b>Ports</b>                             | 1 USB Type-C® 20Gbps signaling rate; 2 USB Type-A 10Gbps signaling rate; 1 headphone/microphone combo <sup>[8,9,10]</sup>  |
| <b>Expansion slots</b>                   | 1 M.2 2230; 2 M.2 2280<br><i>(1 M.2 slot for WLAN and 2 M.2 2280 slots for storage.)</i>   |
| <b>Ports</b>                             | 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) |
| <b>Package dimensions (W x D x H)</b>    | 49.8 x 23.5 x 13.2 cm  |
| <b>Package weight</b>                    | 2.95 kg  |
| <b>Network interface</b>                 | Intel® I219-LM GbE   |
| <b>Wireless</b>                          | Intel® Wi-Fi 7 BE200 (2x2) and Bluetooth® 5.4 wireless card, vPro®   |
| <b>Power</b>                             | 120 W external power adapter, up to 88% efficiency, active PFC   |
| <b>Ecolabels</b>                         | ENERGY STAR® certified   |
| <b>Energy star certified</b>             | ENERGY STAR® certified   |
| <b>Sustainable impact specifications</b> | Low halogen  |
| <b>Software included</b>                 | HP Noise Cancellation Software   |
| <b>UPC number</b>                        | 199642372443   |

## Additional specifications

|  |  |
|--|--|
| <b>Bluetooth version</b>                         | Bluetooth® 5.4                                 |
| <b>I/O Port location</b>                         | Rear   |
| <b>I/O Port location</b>                         | Front  |
| <b>Manageability Features 1</b>                  | HP Client Catalog (download)                   |
| <b>Manageability Features 10</b>                 | HP Connect for Microsoft Endpoint Manager      |
| <b>Manageability Features 2</b>                  | HP Client Management Script Library (download) |
| <b>Manageability Features 3</b>                  | HP Cloud Recovery                              |
| <b>Manageability Features 5</b>                  | HP Driver Packs (download)                     |
| <b>Manageability Features 6</b>                  | HP Image Assistant (download)                  |
| <b>Manageability Features 7</b>                  | HP Manageability Integration Kit (download)    |
| <b>Manageability Features 8</b>                  | HP Patch Assistant (download)                  |
| <b>Manageability Features footnote number 1</b>  | [57]   |
| <b>Manageability Features footnote number 10</b> | [13]   |
| <b>Manageability Features footnote number 2</b>  | [19]   |
| <b>Manageability Features footnote number 3</b>  | [25]   |
| <b>Manageability Features footnote number 5</b>  | [14]   |
| <b>Manageability Features footnote number 6</b>  | [15]   |
| <b>Manageability Features footnote number 7</b>  | [56]   |
| <b>Manageability Features footnote number 8</b>  | [17]   |
| <b>Memory layout (slots &amp; size)</b>          | 1 x 16 GB                                      |
| <b>Memory module type</b>                        | SODIMM   |
| <b>Memory size</b>                               | 16   |
| <b>Memory size uom</b>                           | GB   |
| <b>Memory speed</b>                              | 5600   |
| <b>Memory speed uom</b>                          | MT/s   |
| <b>Memory type</b>                               | DDR5   |
| <b>Number of memory slots</b>                    | 1  |
| <b>Operating humidity range</b>                  | 10 to 90% RH                                   |

|  |   |
|--|---|
| <b>Operating temperature range</b>         | 10 to 35°C  |
| <b>Operating temperature range</b>         | 50 to 95°F  |
| <b>Package dimensions (W x D x H)</b>      | 19.61 x 9.25 x 5.20 in                              |
| <b>Package weight</b>                      | 6.49 lb   |
| <b>Processor Brand</b>                     | Intel®  |
| <b>Processor cache</b>                     | 24 MB L3  |
| <b>Processor core</b>                      | 14  |
| <b>Processor family</b>                    | Core™ Ultra 5                                       |
| <b>Processor frequency technology</b>      | Intel® Turbo Boost Technology                       |
| <b>Processor maximum frequency</b>         | 5.0   |
| <b>Processor maximum frequency uom</b>     | GHz   |
| <b>Processor model</b>                     | 235T  |
| <b>Processor threads</b>                   | 14  |
| <b>Security management</b>                 | HP Sure Run   |
| <b>Security management</b>                 | HP BIOS Recovery                                    |
| <b>Security management</b>                 | HP Secure Erase                                     |
| <b>Security management</b>                 | Secured-Core PC Enable                              |
| <b>Security management</b>                 | HP DriveLock and Automatic DriveLock                |
| <b>Security management</b>                 | Absolute Persistence Module                         |
| <b>Security management</b>                 | HP Sure Click                                       |
| <b>Security management</b>                 | HP Sure Recover                                     |
| <b>Security management</b>                 | HP Sure Start                                       |
| <b>Security management</b>                 | HP Tamper Lock                                      |
| <b>Security management</b>                 | HP BIOSphere  |
| <b>Security management</b>                 | BIOS Update via Network                             |
| <b>Security management</b>                 | HP Sure Admin                                       |
| <b>Security management</b>                 | Support for chassis padlocks and cable lock devices |
| <b>Security management footnote number</b> | [23]  |
| <b>Security management footnote number</b> | [27]  |
| <b>Security management footnote number</b> | [30]  |
| <b>Security management footnote number</b> | [28]  |
| <b>Security management footnote number</b> | [29]  |

|  |  |
|--|--|
| <b>Security management footnote number</b> | [18]                                   |
| <b>Software included</b>                   | HP Connection Optimizer                |
| <b>Software included</b>                   | HP Services Scan                       |
| <b>Software included</b>                   | HP Documentation                       |
| <b>Software included</b>                   | HP Setup Integrated OOBE               |
| <b>Software included</b>                   | HP Hotkey support                      |
| <b>Software included</b>                   | HP Notifications                       |
| <b>Software included</b>                   | Edge Customization                     |
| <b>Software included</b>                   | HP Privacy Settings                    |
| <b>Software included</b>                   | HP Smart Support                       |
| <b>Software included</b>                   | HP UEFI BIOS Certification level 2.7B  |
| <b>Software included</b>                   | HSA Telemetry for Commercial           |
| <b>Software included</b>                   | HSA Fusion for Commercial              |
| <b>Software included</b>                   | myHP with Multicamera support          |
| <b>Software included</b>                   | HP Support Assistant                   |
| <b>Software included</b>                   | HP Notifications                       |
| <b>Software included</b>                   | HP PC Hardware Diagnostics Windows     |
| <b>Software included</b>                   | HP Desktop Support Utilities           |
| <b>Software included</b>                   | Buy Microsoft Office (sold separately) |
| <b>Software included footnote number</b>   | [20]                                   |
| <b>Software included footnote number</b>   | [24]                                   |
| <b>Software included footnote number</b>   | [21]                                   |
| <b>Standard memory note</b>                | Transfer rates up to 5600 MT/s.        |
| <b>Storage capacity</b>                    | 256                                    |
| <b>Storage capacity uom 01</b>             | GB                                     |
| <b>Storage form factor 01</b>              | M.2                                    |
| <b>Storage interface 01</b>                | PCIe®                                  |
| <b>Storage interface protocol 01</b>       | NVMe™                                  |
| <b>Storage type</b>                        | SSD                                    |
| <b>Storage type 01</b>                     | SSD                                    |
| <b>UNSPSC code</b>                         | 43211505                               |
| <b>Wireless Model</b>                      | BE200                                  |
| <b>Wireless antenna</b>                    | 2x2                                    |

|                          |         |
|--------------------------|---------|
| <b>Wireless standard</b> | Wi-Fi 7 |
|--------------------------|---------|

|                          |        |
|--------------------------|--------|
| <b>Wireless supplier</b> | Intel® |
|--------------------------|--------|

|                     |       |
|---------------------|-------|
| <b>vPro enabled</b> | vPro® |
|---------------------|-------|

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*[6] 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.*

*[7] Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost/> for more information.*

*[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.*

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## Accessories

### Point of Sales System Options

★ : Recommended

#### POS Terminal Accessories

|  |         |
|--|---------|
| Datalogic 1500i Presentation Scanner   | 9BU50AA |
| Datalogic 3450Vsi Presentation Scanner | 7UZ38AA |

#### POS Bar Code and Magnetic Stripe Readers

|   |         |
|---|---------|
| Datalogic 4090 Wireless Charging Base                 | 4P775AA |
| Datalogic 4190 Wireless Charging Base                 | 4P776AA |
| Datalogic Gryphon GBT4500 2D Wireless Barcode Scanner | 4P886AA |
| HP Engage 2D G2 Barcode Scanner                       | 6Y2V4AA |
| HP Engage Imaging Barcode Scanner II                  | 5YQ08AA |
| HP Engage Imaging Barcode Scanner II                  | 5YQ08AT |

#### POS Printer

|   |         |
|---|---------|
| Epson TM-H6000VI Hybrid Printer                     | A1NL2AA |
| Epson TM-L90II Printer                              | 4J8H7AA |
| Epson TM-T20IIIL Serial USB Printer                 | 340U3AA |
| Epson TM-T88VII PUSB Thermal Printer                | 8G0G7AA |
| Epson TM-T88VII Serial Ethernet USB Thermal Printer | 8G0G6AA |
| Epson TM-m30II Printer                              | 340U1AA |
| HP Engage PUSB Thermal Printer                      | 299V0AA |
| HP Engage Serial Ethernet USB Thermal Printer       | 299U7AA |
| HP Value Thermal Receipt Printer                    | 4AK33AA |

#### POS Display Accessories

|                                       |         |
|---------------------------------------|---------|
| HP Engage 15t XGA No Stand Monitor    | 67Q84AA |
| HP Engage One 10.1-inch Display       | 1XD80A7 |
| HP Engage One 10.1-inch Display       | 1XD80AA |
| HP Engage One 10.1-inch Display       | 1XD81A7 |
| HP Engage One 10.1-inch Touch Display | 1XD81AA |

#### POS Cash Drawer

|                           |         |
|---------------------------|---------|
| HP Heavy Duty Cash Drawer | FK182AA |
|---------------------------|---------|

|                              |         |
|------------------------------|---------|
| HP Standard Duty Cash Drawer | QT457AA |
|------------------------------|---------|

|                              |         |
|------------------------------|---------|
| HP Standard Duty Cash Drawer | QT457AT |
|------------------------------|---------|

|  |         |
|--|---------|
| HP Standard Duty USB Keyless Cash Drawer | A09FBAA |
|--|---------|

## **POS Keyboard**

|                     |         |
|---------------------|---------|
| HP POS USB Keyboard | FK221AA |
|---------------------|---------|

|                     |         |
|---------------------|---------|
| HP POS USB Keyboard | FK221AT |
|---------------------|---------|

|   |         |
|---|---------|
| HP POS USB Keyboard with Magnetic Stripe Reader | FK218AA |
|---|---------|

|   |         |
|---|---------|
| HP POS USB Keyboard with Magnetic Stripe Reader | FK218AT |
|---|---------|

## Accessories for PC

### Mice/Pens/Other Pointing Devices

★ : Recommended

#### Wired Mice

|                             |         |
|-----------------------------|---------|
| HP 125 Wired Mouse          | 265A9AT |
| HP 125 Wired Mouse          | 265A9UT |
| HP 128 Laser Wired Mouse    | 265D9AA |
| HP Wired Desktop 320M Mouse | 9VA80AA |

#### Wireless Mice

|   |         |
|---|---------|
| HP 515 Ultra-Fast Rechargeable Wireless Mouse | 9C2F7AA |
|---|---------|

### Keyboards/Other Input Devices

#### Wired Keyboards

|  |         |
|--|---------|
| HP 405 Multi-Device Backlit Wired Keyboard | 7N7C1AA |
| HP Business Slim v2 Smartcard Keyboard     | A71J9AA |

#### Wireless Keyboards

|                                       |         |
|---------------------------------------|---------|
| HP 455 Programmable Wireless Keyboard | 4R177AA |
| HP 475 Dual-Mode Wireless Keyboard    | 7N7B9AA |
| HP 680 Comfort Dual-Mode Keyboard     | 8T6L8AA |

### Stands/Mounting Brackets

#### Mounting Brackets

|                                       |         |
|---------------------------------------|---------|
| HP B200 PC Mounting Bracket           | 762T5AA |
| HP B560 PC Mounting Bracket           | 763U8AA |
| HP B600 Z Display PC Mounting Bracket | 529H3AA |

### Components/Upgrades

#### Chassis/Rails

|  |         |
|--|---------|
| HP DM v4 Port Cover                                      | B6BS6AA |
| HP Desktop Mini v4+ VESA Sleeve                          | 99T54AA |
| HP Desktop Mini v4+ VESA Sleeve with Power Supply Holder | 99T55AA |
| HP Elite Mini EPS Holder                                 | 657R3AA |

## Internal ports/Modules/Controllers

|  |         |
|--|---------|
| HP DisplayPort 2.1 v3 Flex IO              | B6BS8AA |
| HP Dual Type-C 3.2 Gen2 15W Out v3 Flex IO | B6BT5AA |
| HP Flex 1GbE Fiber LC Single Port          | 20J15AA |
| HP HDMI 2.1 v3 Flex IO                     | B6BS9AA |
| HP Serial Port Flex IO v3                  | 5B895AA |
| HP USB 3.1 Gen1 x2 Module Flex IO v2       | 13L58AA |
| HP USB to Serial Port Adapter              | J7B60AA |
| HP VGA v3 Flex IO                          | B6BT0AA |

## Storage

|                             |         |
|-----------------------------|---------|
| HP External USB DVDRW Drive | F2B56AA |
|-----------------------------|---------|

## Port Replicators/Dongles/Docking

### Cables/Cable Adapters/Dongles

|  |         |
|--|---------|
| HP DisplayPort To VGA Adapter          | AS615AA |
| HP DisplayPort To VGA Adapter          | F7W97AA |
| HP DisplayPort to HDMI True 4K Adapter | 2JA63AA |
| HP HDMI Standard Cable                 | T6F94AA |
| HP HDMI to VGA Adapter                 | H4F02AA |
| HP Pavilion USB-C to HDMI 2.0 Adapter  | 2PC54AA |
| HP Single miniDP-to-DP Adapter Cable   | 2MY05AA |
| HP USB-C to DisplayPort Adapter G2     | 8Y8Y1AA |
| HP USB-C to HDMI 2.0                   | 1WC36AA |
| HP USB-C to USB 3.0 Adapter            | N2Z63AA |

## Audio Devices

### PC Speakers

|                                  |         |
|----------------------------------|---------|
| HP Z G3 Conferencing Speaker Bar | 647Y2AA |
|----------------------------------|---------|

# Monitors

## Business Monitors

★ : Recommended

### Series 5 Pro

|  |         |
|--|---------|
| HP Series 5 Pro 23.8 inch FHD USB-C Conferencing Monitor - 524pm | 9E0G9UT |
| HP Series 5 Pro 23.8 inch FHD USB-C Monitor - 524pu              | 9D9V7AA |
| HP Series 5 Pro 23.8 inch FHD USB-C Monitor - 524pu              | 9D9V7AS |
| HP Series 5 Pro 23.8 inch FHD USB-C Monitor - 524pu              | 9D9V7E9 |
| HP Series 5 Pro 23.8 inch FHD USB-C Monitor - 524pu PVC Free     | 9D9V7A5 |
| HP Series 5 Pro 27 inch QHD USB-C Conferencing Monitor - 527pm   | 9E0Y9UT |
| HP Series 5 Pro 27 inch QHD USB-C Monitor - 527pu                | 9E0G5AA |
| HP Series 5 Pro 27 inch QHD USB-C Monitor - 527pu                | 9E0G5AS |
| HP Series 5 Pro 27 inch QHD USB-C Monitor - 527pu                | 9E0G5E9 |
| HP Series 5 Pro 27 inch QHD USB-C Monitor - 527pu PVC Free       | 9E0G5A5 |
| HP Series 5 Pro 34 inch WQHD USB-C Conferencing Monitor - 534pm  | 9E0Z2UT |

### Series 7 Pro

|  |         |
|--|---------|
| HP Series 7 Pro 24 inch WUXGA USB-C Monitor - 724pu                    | 8Y2F7E9 |
| HP Series 7 Pro 24 inch WUXGA USB-C Monitor - 724pu PVC Free           | 8Y2F7A5 |
| HP Series 7 Pro 27 inch 4K Conferencing Monitor - 727pm                | 8K135E9 |
| HP Series 7 Pro 27 inch 4K Conferencing Monitor - 727pm PVC Free       | 8K135A5 |
| HP Series 7 Pro 27 inch 4K Thunderbolt 4 Monitor - 727pk               | 8J9G2E9 |
| HP Series 7 Pro 27 inch 4K Thunderbolt 4 Monitor - 727pk PVC Free      | 8J9G2A5 |
| HP Series 7 Pro 27 inch QHD Thunderbolt 4 Monitor - 727pu              | 8J9E6E9 |
| HP Series 7 Pro 27 inch QHD Thunderbolt 4 Monitor - 727pu              | 8J9E6UT |
| HP Series 7 Pro 27 inch QHD Thunderbolt 4 Monitor - 727pu PVC Free     | 8J9E6A5 |
| HP Series 7 Pro 31.5 inch 4K Thunderbolt 4 Monitor - 732pk             | 8Y2K9E9 |
| HP Series 7 Pro 31.5 inch 4K Thunderbolt 4 Monitor - 732pk PVC Free    | 8Y2K9A5 |
| HP Series 7 Pro 34 inch WQHD Conferencing Monitor - 734pm              | 8K157E9 |
| HP Series 7 Pro 34 inch WQHD Conferencing Monitor - 734pm              | 8K157UT |
| HP Series 7 Pro 34 inch WQHD Conferencing Monitor - 734pm PVC Free     | 8K157A5 |
| HP Series 7 Pro 37.5 inch WQHD+ Thunderbolt 4 Monitor - 738pu          | 8K167E9 |
| HP Series 7 Pro 37.5 inch WQHD+ Thunderbolt 4 Monitor - 738pu PVC Free | 8K167A5 |
| HP Series 7 Pro 39.7 inch 5K2K Conferencing Monitor - 740pm PVC Free   | 8Y2R2A5 |
| HP Series 7 Pro 39.7 inch 5K2K Conferencing Monitor-740pm              | 8Y2R2E9 |

# HP Home Monitors

## OMEN by HP Displays

OMEN Transcend 31.5 inch UHD 240Hz OLED Gaming Monitor - OMEN  
Transcend 32

9R181AA

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