



# HP Engage Flex Pro G2 Retail System Bundle (8N9P4UT)

## Overview

### Power to Drive Your Business



Drive business operations with a stable, secure, high-performance platform that also offers outstanding flexibility. Suitable for a wide range of deployments that span POS, digital signage, video surveillance, processing/controlling, OEM and more.

### Connect. Configure. Customize

With multiple connectivity, graphics, and networking options, plus the ability to accommodate a range of peripherals, this powerful platform can be configured for almost any environment and use case. You can also declutter & optimize tight spaces since this machine and a display can be powered with just one cord and power outlet.

### Built-in Security and Manageability

Spend more time focusing on your business, not on technology. Enjoy automatic firmware intrusion detection and repair from day one with HP Sure Start Gen 7[4] and reduce the cost and complexity of managing your platform remotely with the HP Manageability Integration Kit.[5]

### Built to Perform. Designed to Last

Get high level, long-term performance from quality components like Intel® 13th Generation processors[2], up to 128GB DDR5 RAM[3], and multiple OS and port options. Plan ahead with a five-year lifecycle that lets you roll out on your schedule and extend protection with optional 5 years parts/service support.[1]

---

[1] HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit [www.hp.com/go/cpc](http://www.hp.com/go/cpc). HP Services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.

[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] Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system and requires configuration with an optional Intel® Core™ i(5 or 7)+ processor.*

*[4] HP Sure Start Gen7 is available on the HP Engage Flex Pro equipped with 13th generation Intel® processors.*

*[5] HP Manageability Integration Kit can be downloaded from <http://www.hp.com/go/clientmanagement> .*

## Specifications

|  |   |
|--|---|
| <b>Form factor</b>                       | Small form factor   |
| <b>Operating system</b>                  | Windows 11 Pro  |
| <b>Processor family</b>                  | 13th Generation Intel® Core™ i3 processor   |
| <b>Processor</b>                         | Intel® Core™ i3-13100E (up to 4.4 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 4 cores, 8 threads) <sup>[6,7]</sup>  |
| <b>Chipset</b>                           | Intel® Q670   |
| <b>Memory</b>                            | 16 GB DDR5-4800 MHz RAM (1 x 16 GB)   |
| <b>Memory Slots</b>                      | 4 DIMM  |
| <b>Internal Storage</b>                  | 256 GB PCIe® NVMe™ SSD  |
| <b>Hard drive (2nd)</b>                  | 256 GB PCIe® NVMe™ SSD  |
| <b>Internal drive bays</b>               | Two 3.5"; Two M.2   |
| <b>External drive bays</b>               | One 5.25"   |
| <b>Optical drive</b>                     | DVD-Writer  |
| <b>Graphics</b>                          | Integrated  |
| <b>Graphics (integrated)</b>             | Intel® UHD Graphics 730   |
| <b>Audio</b>                             | Realtek ALC3252 codec, universal audio jack, headset and headphone front ports (3.5 mm), multi-streaming capable  |
| <b>Minimum dimensions (W x D x H)</b>    | 33.7 x 38.0 x 10 cm   |
| <b>Minimum dimensions (W x D x H)</b>    | 13.27 x 14.96 x 3.94 in   |
| <b>Weight</b>                            | Starting at 6.44 kg<br><i>(Exact weight depends on configuration.)</i>  |
| <b>Weight</b>                            | Starting at 14.2 lb<br><i>(Exact weight depends on configuration.)</i>  |
| <b>Ports</b>                             | 1 USB Type-A 5Gbps signaling rate (charging); 2 USB Type-A 5Gbps signaling rate (charging); 2 USB 2.0 Type-A; 1 DisplayPort™ 1.4; 1 RJ-45; 1 headset connector; 2 configurable video ports <sup>[11]</sup><br><i>(Additional optional ports include up to 6 RS-232 (5/12V), up to 6 12V USB, 1 24V USB, 1 RJ-12 cash drawer.)</i> |
| <b>Expansion slots</b>                   | 2 full-height PCIe (x1); 1 half-height PCIe x16 (x4); 1 half-height PCIe x16 (x16)  |
| <b>Ports</b>                             | 2 USB Type-A 5Gbps signaling rate   |
| <b>Power</b>                             | 250 W internal power adapter, up to 90% efficiency, active PFC  |
| <b>Ecolabels</b>                         | TCO Certified   |
| <b>Energy star certified</b>             | ENERGY STAR® certified  |
| <b>Management features</b>               | HP Driver Packs (download); HP Image Assistant; HP Manageability Integration Kit Gen4 (download) <sup>[13]</sup>  |
| <b>Sustainable impact specifications</b> | Low Halogen   |

**Security management**

Trusted Platform Module TPM 2.0 Embedded Security Chip; USB enable/disable (via BIOS); Serial enable/disable (via BIOS); HP BIOSphere; RAID configurations; Support for chassis padlocks and cable lock devices; Solenoid lock and hood sensor; Parallel enable/disable (via BIOS); Front USB enable/disable (via BIOS); HP Sure Sense; HP Secure Erase; HP Multi-Factor Authenticate; HP Sure Click (Standard); HP MIK (SCCM Integration); HP Image Assistant; HP vPRO Support; Device Guard Enablement; Self Encrypting Drives; HP Client Security Manager Gen7; HP Tamper Lock; HP Sure Run Gen5; HP Sure Admin Gen2; HP Sure Start Gen7; Intel® Active Management Technology (Intel® AMT); HP Sure Recover Gen5 (via network) [2,13,15,16,17,18,19,20,21,22,23,26,27,28,29,30,31]

**Software included**

HP PC Hardware Diagnostics UEFI; HP Privacy Settings; HP PC Hardware Diagnostics Windows; MyHP; HP QuickDrop; HP Easy Clean; Touchpoint Customizer for Commercial; HP Easy Clean Keyboard Driver; HSA Fusion for Commercial; HSA Telemetry for Commercial<sup>[9,12]</sup>

**UPC number**

197497931716

## Additional specifications

|   |                                 |
|---|---------------------------------|
| <b>Certifications and compliances</b>     | IEC 60601-1-2                   |
| <b>External I/O ports footnote number</b> | [11]                            |
| <b>I/O Port location</b>                  | Front                           |
| <b>I/O Port location</b>                  | Rear                            |
| <b>Memory layout (slots &amp; size)</b>   | 1 x 16 GB                       |
| <b>Memory module type</b>                 | UDIMM                           |
| <b>Memory size</b>                        | 16                              |
| <b>Memory size uom</b>                    | GB                              |
| <b>Memory speed</b>                       | 4800                            |
| <b>Memory speed uom</b>                   | MHz                             |
| <b>Memory type</b>                        | DDR5                            |
| <b>Number of memory slots</b>             | 1                               |
| <b>Operating humidity range</b>           | 20 to 85% RH                    |
| <b>Operating temperature range</b>        | 0 to 40°C                       |
| <b>Operating temperature range</b>        | 50 to 104°F                     |
| <b>Processor Brand</b>                    | Intel®                          |
| <b>Processor cache</b>                    | 12 MB L3                        |
| <b>Processor core</b>                     | 4                               |
| <b>Processor family</b>                   | Core™ i3                        |
| <b>Processor frequency technology</b>     | Intel® Turbo Boost Technology   |
| <b>Processor generation</b>               | 13th Generation                 |
| <b>Processor maximum frequency</b>        | 4.4                             |
| <b>Processor maximum frequency uom</b>    | GHz                             |
| <b>Processor threads</b>                  | 8                               |
| <b>Standard memory note</b>               | Transfer rates up to 4800 MT/s. |
| <b>Storage capacity</b>                   | 256                             |
| <b>Storage capacity 02</b>                | 256                             |
| <b>Storage capacity uom 01</b>            | GB                              |
| <b>Storage capacity uom 02</b>            | GB                              |
| <b>Storage interface 01</b>               | PCIe®                           |
| <b>Storage interface 02</b>               | PCIe®                           |
| <b>Storage interface protocol 02</b>      | NVMe™                           |

|                        |          |
|------------------------|----------|
| <b>Storage type</b>    | SSD      |
| <b>Storage type 01</b> | SSD      |
| <b>Storage type 02</b> | SSD      |
| <b>UNSPSC code</b>     | 43211505 |

---

[2] Microsoft Device Guard and Credential Guard are available with Windows 10 IoT Enterprise delivered from HP or to customers with a volume license to use Windows 10 Enterprise. Microsoft Device Guard and Credential Guard are not available with Windows 10 Pro or Windows 11 Pro. The installation of Windows 10 Enterprise and Microsoft Device Guard and Credential Guard are available through HP Configuration & Deployment Services.

[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.

[9] HP Easy Clean requires Windows 10 RS3 and higher and will disable the keyboard, touchscreen, and clickpad only. Ports are not disabled. See user guide for cleaning instructions.

[11] (2) USB 3.2 Gen 1 Type A (5 Gb/s signaling data rate. Actual throughput may vary).

[12] HP Quick Drop requires Internet access and Windows 10 PC preinstalled with HP QuickDrop app and either an Android device (phone or tablet) running Android 7 or higher with the Android HP QuickDrop app, and /or an iOS device (phone or tablet) running iOS 12 or higher with the iOS HP QuickDrop app.

[13] HP Manageability Integration Kit can be downloaded from <http://www.hp.com/go/clientmanagement> .

[15] HP BIOSphere Gen4 Requires Intel® 8th Gen processors. Features may vary depending on the platform and configurations.

[16] HP Client Security Suite Gen 4 Requires Windows and Intel® 8th generation processors.

[17] 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.

[18] HP Sure Start Gen7 is available on the HP Engage Flex Pro G2 products equipped with 13th generation Intel® processors and requires Windows 10 or higher.

[19] 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> .

[20] For full Intel® vPro® functionality, Windows 10 Pro 64 bit, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or WLAN card and TPM 2.0 are required. Some functionality requires additional 3rd party software in order to run. See <http://intel.com/vpro> .

[21] vPRO support requires either an Intel Core i5 or Core i7 processor.

[22] vPRO support also requires a vPRO WLAN Card for these products.

[23] vPRO enablement is a separate option on some products.

[26] HP Sure Click requires Windows 10 Pro or higher or Enterprise. See [https://bit.ly/2PrLT6A\\_SureClick](https://bit.ly/2PrLT6A_SureClick) for complete details .

[27] HP Sure Click is only supported on Intel Core i3, i5, i7, and i9 processors.

*[28] HP Sure Click, Sure Run, Sure Recover & Sure Sense is supported on Win 10 Pro or higher, Win 10 IoT Enterprise 2019 LTSC, or Win 10 IoT Enterprise 2021 LTSC; but not on Win 10 IoT Enterprise 2016 LTSB.*

*[29] RAID configuration is optional and does require a second hard drive or solid state drive.*

*[30] HP Sure Run is available on HP Engage Flex Pro G2 products equipped with 13th generation Intel® processors.*

*[31] The Engage Flex Pro G2 can support a single graphics card up to 75W.*

---

## Accessories for PC

### Components/Upgrades

★ : Recommended

#### Storage

|   |         |
|---|---------|
| 512GB 2280 PCIe NVMe SED OPAL2 w/Heatsink Solid State Drive | 9U759AA |
| HP 1TB 2280 PCIe NVMe TLC w/Heatsink Solid State Drive      | 9U757AA |
| HP 1TB 2280 PCIe NVMe Value w/Heatsink Solid State Drive    | 9U755AA |
| HP 256GB 2280 PCIe NVMe Value w/Heatsink Solid State Drive  | 9U753AA |
| HP 2TB 2280 PCIe NVMe TLC w/Heatsink Solid State Drive      | 9U758AA |
| HP 512GB 2280 PCIe NVMe TLC w/Heatsink Solid State Drive    | 9U756AA |
| HP 512GB 2280 PCIe NVMe Value w/Heatsink Solid State Drive  | 9U754AA |

#### Internal ports/Modules/Controllers

|   |         |
|---|---------|
| HP DisplayPort Port Flex IO v2          | 13L54AA |
| HP DisplayPort Port Flex IO v2          | 13L54AT |
| HP HDMI Port Flex IO v2                 | 13L55AA |
| HP HDMI Port Flex IO v2                 | 13L55AT |
| HP PCIe x1 Parallel Port Card           | N1M40AA |
| HP PCIe x1 Parallel Port Card           | N1M40AT |
| HP Type-C USB 3.1 Gen2 Port Flex IO v2  | 13L59AA |
| HP USB 3.1 Gen1 x2 Module Flex IO v2    | 13L58AA |
| HP VGA Port Flex IO v2                  | 13L53AA |
| Intel I225V Single Port 2.5GbE PCIe NIC | 406L9AA |

#### Chassis/Rails

|  |         |
|--|---------|
| HP Z2 Mini/Z2 Tower/Z4/Z6 Depth Adjustable Fixed Rail Rack Kit | 2A8Y5AA |
|--|---------|

### Keyboards/Other Input Devices

#### Wired Keyboards

|                                |         |
|--------------------------------|---------|
| HP 125 Wired Keyboard          | 266C9AA |
| HP Wired Desktop 320K Keyboard | 9SR37AA |
| HP Wired Desktop 320K Keyboard | 9SR37UT |

#### Wired Combo



|   |         |
|---|---------|
| HP 225 Antimicrobial Wired Mouse and Keyboard Combo | 286K3AA |
| HP 225 Wired Mouse and Keyboard Combo               | 286J4AA |
| HP Wired Desktop 320MK Mouse and Keyboard           | 9SR36AA |
| HP Wired Desktop 320MK Mouse and Keyboard           | 9SR36UT |

## Mice/Pens/Other Pointing Devices

### Wired Mice

|                             |         |
|-----------------------------|---------|
| HP 125 Wired Mouse          | 265A9AA |
| HP 125 Wired Mouse          | 265A9AT |
| HP 125 Wired Mouse          | 265A9UT |
| HP 128 Laser Wired Mouse    | 265D9AA |
| HP Wired Desktop 320M Mouse | 9VA80AA |
| HP Wired Desktop 320M Mouse | 9VA80UT |

## Security

### Security Cables

|                                     |         |
|-------------------------------------|---------|
| HP Business PC Security Lock v3 Kit | 3XJ17AA |
| HP Keyed Cable Lock 10 mm           | T1A62AA |

## Accessories

### Point of Sales System Options

★ : Recommended

#### POS Terminal Accessories

|   |         |
|---|---------|
| 60W Printer AC Adapter                    | 3A2P5AA |
| Datalogic 1500i Presentation Scanner      | 9BU50AA |
| Datalogic 1500i Whi Presentation Scanner  | 3F568AA |
| Datalogic 3450Vsi Presentation Scanner    | 7UZ38AA |
| Epson 12 FT PUSB Cable                    | 7NX62AA |
| Epson 6FT PUSB Dark Gray Cable            | 1C5A0AA |
| HP 6 Foot PUSB Black Cable                | 5C2B8AA |
| HP 6 Foot USB Black Cable                 | 5C2B7AA |
| HP Cable Pack for Dual HP Cash Drawer     | QT538AA |
| HP Engage Flex Pro 12V PUSB Standard Card | 5KM97AA |
| HP Engage Flex Pro 24V USB/Cash Drawer    | 4VW72AA |
| HP Engage Flex Pro G2 Dust Filter         | 9R6G0AA |
| HP Engage Flex Pro PCI Riser              | 4VW77AA |
| HP Engage Flex Pro PCIe Riser             | 4VW78AA |
| HP Engage Flex Pro Serial Port (Female)   | 4VW71AA |
| HP Engage Flex Pro Serial Port (Male)     | 4VW70AA |
| HP Engage Flex Pro Wall Mount/Sec Sleeve  | 4VW75AA |
| HP Engage Heavy Duty Cash Drawer RL       | 8QX99AA |
| HP Engage One Prime Cash Drawer Cable     | 5UU45AA |

#### 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 2D G2 White Barcode Scanner                 | 6Y2V5AA |
| HP Engage Imaging Barcode Scanner II                  | 5YQ08AA |
| HP Engage Imaging Barcode Scanner II                  | 5YQ08AT |
| HP Engage One Prime Barcode Scanner                   | 638L9AA |
| HP Engage One Prime Barcode Scanner                   | 638L9AT |

## POS Printer

|   |         |
|---|---------|
| Epson H6000V Hybrid POS Printer                     | 4ZE21AA |
| Epson TM-88VI Serial Ethernet USB Printer only      | 2HV25AA |
| 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 Japan Printer                        | 38N27AA |
| Epson TM-m30II Printer                              | 340U1AA |
| Epson TM-m30II White Japan Printer                  | 38N28AA |
| Epson TM-m30II White Printer                        | 340U2AA |
| Epson TM88VI PUSB Printer only                      | 6BC94AA |
| HP Engage PUSB Thermal Printer                      | 299V0AA |
| HP Engage Serial Ethernet USB Thermal Printer       | 299U7AA |
| HP Value Thermal Receipt Printer                    | 4AK33AA |

## POS Cash Drawer

|   |         |
|---|---------|
| HD Cash Drawer Till 5B5C                | 31G54AA |
| HP Cash Drawer                          | 54J44AA |
| HP Engage One Prime Cash Drawer         | 638M5AA |
| HP Heavy Duty Cash Drawer               | FK182AA |
| HP Standard Duty Cash Drawer            | QT457AA |
| HP Standard Duty Cash Drawer            | QT457AT |
| HP Standard Duty Till with Lockable Lid | QT458AA |
| HP Standard Duty Till with Lockable Lid | QT458AT |
| Standard Duty Cash Drawer Till 4B8C     | 4Z4T1AA |
| Standard Duty Cash Drawer Till 5B5C     | 4Z4T0AA |

## POS Display Accessories

|  |         |
|--|---------|
| HP Engage 10 HD No Stand + VESA Mount Monitor  | 3F1W8A7 |
| HP Engage 10 HD No Stand + VESA Mount Monitor  | 3F1W8AA |
| HP Engage 10t HD No Stand + VESA Mount Monitor | 3F1W9AA |
| HP Engage 14 FHD No Stand and No VESA Monitor  | 42C50AA |
| HP Engage 14t FHD Monitor                      | 42C90AA |
| HP Engage 15t XGA No Stand Monitor             | 67Q84AA |
| HP Engage 16t FHD MSR Monitor                  | 2D9Z4AA |

|   |         |
|---|---------|
| HP Engage 16t FHD Monitor                   | 2D9X0AA |
| HP Engage 2x20 Customer Facing Pole Display | 6K553AA |
| HP Engage 6.6 inch Display with Payment     | 156P0AA |
| HP Engage 6.6 inch Display without Payment  | 10P74AA |
| HP Engage 6.6 inch Pole Display             | 10P79AA |
| HP Engage 6.6 inch White Display            | 156N8AA |
| 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 |
| HP Engage One W 10.1-inch Display           | 3FH66A8 |
| HP Engage One W 10.1-inch Display           | 3FH66AA |
| HP Engage One W 10.1-inch Touch Display     | 3FH67A8 |
| HP Engage One W 10.1-inch Touch Display     | 3FH67AA |
| HP L7010t 10.1-inch Retail Touch Monitor    | T6N30A8 |
| HP L7010t 10.1-inch Retail Touch Monitor    | T6N30AA |
| HP L7014 14-inch Retail Monitor             | T6N31A8 |
| HP L7014 14-inch Retail Monitor             | T6N31AA |
| HP L7014t 14-inch Retail Touch Monitor      | T6N32A8 |
| HP L7014t 14-inch Retail Touch Monitor      | T6N32AA |
| HP L7016t 15.6-inch Retail Touch Monitor    | V1X13A8 |
| HP L7016t 15.6-inch Retail Touch Monitor    | V1X13AA |

## POS Monitors and Accessories

|  |         |
|--|---------|
| HP Engage 14 Standalone Stand                | 4A2G1AA |
| HP Engage 14 VESA Plate                      | 4A2G2AA |
| HP Engage 16t Column Stand                   | 4A2F9AA |
| HP Engage 16t VESA Plate                     | 4A2G0AA |
| HP Engage Stability Mount Stand Attachment   | 4A2F8AA |
| HP Monitor Stand for L7010t L7014 and L7014t | T6N33AA |
| HP Monitor Stand for L7016t                  | W0Q45AA |

## POS Keyboard

|   |         |
|---|---------|
| HP POS USB Keyboard                             | FK221AA |
| HP POS USB Keyboard                             | FK221AT |
| HP POS USB Keyboard with Magnetic Stripe Reader | FK218AA |

## Batteries/Chargers/Adapters

### Power Supplies

|                             |         |
|-----------------------------|---------|
| Epson PS-180 50W AC Adapter | 2KH39AA |
|-----------------------------|---------|

## Expansion Solution and Controller Cards

### Remote Interfaces

|   |         |
|---|---------|
| HP Integrated Flex Pro Remote System Controller | 9B141AA |
|---|---------|

## Chassis and Chassis Accessories

### Brackets/Bezels/Panels

|   |         |
|---|---------|
| HP rp5800 Rear Port/Cable Control Cover | QP909AA |
|---|---------|

---

## Disclaimer — Copyright

© Copyright 2024 HP Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.