

### Overview

### HP Engage One G2 All-In-One system



**FRONT VIEW**

### Overview

#### HP Engage One G2 All-In-One system



**REAR VIEW**

#### HP Engage One G2 Advanced Fan-less Hub



1. RJ-45 NIC (network) jack
2. USB Type-C power delivery port (36 W, 5V/9V/12V@3A) with Alternate Mode (downstream)
3. 4x USB 3.2 G1 (5V@900mA)
4. 2x COM Port power serials (5V/12V@1A)
5. USB Type-C port with power delivery (upstream) (100 W)
6. DC IN connector (280W Adaptor Power Connector)
7. 2x Powered USB 12 V ports
8. Powered USB 24 V port
9. RJ-11 (cash drawer) jack

### *Technical Specifications - Software*

#### **STAND CONFIGURATIONS**

**HP Engage One G2 VESA Mount (100x100mm)**

\*1 USB Type-C 10Gbps UFP 100W for power cord or to connect USB-C to Advanced Hub

**HP Engage One G2 counter mount**

**HP Engage One G2 AiO Swivel Stand**

### Technical Specifications - Software

#### AT A GLANCE

Color: Ebony Black

Optional Integrated Peripherals: camera, NFC, MSR

IP 54 Rating

Orientation: Landscape

Display:

- 15.6" diagonal, FHD (1920 x 1080), touch, IPS, UWVA, anti-glare, 350 nits, 45% NTSC

Processor choices:

- Intel® Core™ 5 processor
- Intel® Core™ 3 processor
- Intel® Processor U300E

Graphics:

- Intel® UHD Graphics for RPL-U i5/i3/ Pentium GT2

Intel® Wi-Fi 7 BE200 (2x2) and Bluetooth® 5.4 wireless card, non-vPro®

2 DDR5 Memory Slots (32 GB Maximum)

2 M.2 slots for SSD

256 GB PCIe® NVMe™ SSD

512 GB PCIe® NVMe™ SSD

Operating System choices:

- Windows 11 Pro 64-bit<sup>1</sup>
- Windows 11 IoT Enterprise 2024 LTSC
- ChromeOS Flex
- FreeDOS 3.0
- SUSE Linux® Enterprise Desktop 15 (certification only)

Stands:

- HP Engage One G2 Stand
- HP Engage One G2 Swivel Stand (Available in August)
- Connectivity Base & VESA Mount

#### HP Engage One G2 VESA Mount

- 1 USB Type-C 10Gbps UFP PD 100W In

#### HP Engage One G2 Advanced hub

- 1 RJ 45 NIC, 1 RJ 11 cash drawer connector,
- 2 COM Port power serials (5V/12V@1A)
- 4 USB-A 3.2 G1
- 1 DC IN connector
- 1 USB-CDFP (PD 36 W Output Alt Mode DisplayPort™)
- 1 USB-C UFP (PD 100W Output data port]
- 2 P-USB 12V
- 1x P-USB 24V

**NOTE: See important legal disclosures for all listed specs in their respective features sections.**

### Technical Specifications - Software

#### OPERATING SYSTEM

<b>Preinstalled</b>	Windows 11 Pro 64-bit <sup>1</sup>
	Windows 11 IoT Enterprise 2024
	ChromeOS Flex
	FreeDOS 3.0
<b>Certified</b>	SUSE Linux® Enterprise Desktop 15 <sup>2</sup>

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 is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.

2. Certification on a single platform configuration. More information about SUSE: <https://www.suse.com/partners/ihv/yes/>

The following features are not supported by SUSE Linux Enterprise Desktop:

- Power Management features
- Multi-touch capabilities
- Systems configured with Linux do not qualify for ENERGY STAR®

### Technical Specifications - Software

#### ADAPTERS AND CABLES

HP USB-C® to DisplayPort  
HP USB-C® to HDMI  
HP USB-C® to VGA  
USB to Serial Port Adapter

#### NETWORKING/COMMUNICATIONS

Intel® Wi-Fi 7 BE200 and Bluetooth® 5.4 wireless card (2x2 non-vPro, supporting gigabit data rate)<sup>1</sup>

1. 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.

#### Near field communication

NFC Mirage WNC XRAV-1

#### PORTS

##### HP Engage One G2 Head unit I/O:

1x USB-C PD 27W data port<sup>1</sup>

1x UAJ (Audio jack)

Note: Internal access door for the SSD

##### HP Engage One G2 Advanced hub I/O

1x RJ12 Cash Drawer

2x 12V P-USB

1x 24V P-USB

2x COM port power serial 5V/12V @1A

4x USB3.2 G1 Type A/900mA

1x RJ 45 NIC

1x DC connector

1x USB3.2 G2 Type-C® DP Alt Mode / 36W<sup>2</sup>

1x USB Type-C port with power delivery (upstream) (100 W)

##### HP Engage One G2 VESA Mount

1 USB-C UFP PD 100W<sup>3</sup>

1. HP 100W port only compatible with the 100W cable included with the product. Cable required for the HP Engage One Pro to operate.
2. Limit to gen1 speeds due to USB cable.
3. VESA Mount USB-C compatible with system 100W USB-C power adapter to power head unit only or to attach Advanced Hub

### Technical Specifications - Software

#### USB SPECIFICATION

Speed	Terminology
Hi-Speed USB 480Mbps signaling rate	USB 2.0
SuperSpeed USB 5Gbps signaling rate	USB 3.2 Gen 1

### Technical Specifications - Software

#### SOFTWARE COMPONENTS AND APPLICATIONS

##### BIOS

HP BIOSphere Gen6<sup>1</sup>

HP Secure Erase<sup>2</sup>

Device Guard Enablement

##### HP BIOS Additional Features

Power-On password

##### Software

HP Privacy Settings

HP Setup Integrated OOBE

HP Notifications

myHP

##### Manageability Features

HP Driver Packs

HP Manageability Integration Kit<sup>3</sup>

HP Image Assistant

HP Smart Support<sup>4</sup>

##### Security Management

HP Client Security Manager Gen7<sup>5</sup>

HP Multi-Factor Authenticate

HP SpareKey

HP Sure Start<sup>6</sup>

HP Sure Run<sup>7</sup>

HP Sure Recover<sup>7,8</sup>

##### Security Features

Bolt to counter mechanism

VESA mounting

Keyed Cable Lock

Trusted Platform Module TPM 2.0

Drive lock

USB enable/disable (via BIOS)

Power-on password (via BIOS)

Setup password (via BIOS)

### *Technical Specifications - Software*

1. HP BIOSphere Gen6 is available on select HP Pro and Elite PCs. See product specifications for details. Features may vary depending on the platform and configurations.
2. 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™.
3. HP Manageability Integration Kit requires Windows 10 or Windows 11 and can be downloaded from <http://www.hp.com/go/clientmanagement>.
4. HP Smart Support is available to commercial customers through your HP Service Representative and HP Factory Configuration Services; or it can be downloaded at: <http://www.hp.com/smart-support>. HP Smart Support automatically collects the telemetry necessary upon initial boot of the product to deliver device-level configuration data and health insights.
5. HP Client Security Manager Gen7 requires Windows.
6. HP Sure Start Gen7 is available on select HP PCs and requires Windows 10 Pro and higher.
7. HP Sure Run & Sure Recover is supported on Win 10 Pro & Win 10 IoT Enterprise 2019 LTSC and above; but not on Win 10 IoT Enterprise 2016 LTSC. See product specifications for availability, not available on all products.
8. HP Sure Recover Gen3 is available on selected HP PCs and requires an open network connection. Not available on platforms with multiple internal storage drives. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data. See product specifications for availability, not available on all products.

### Technical Specifications - Software

#### PROCESSORS

Intel® Core™ 5 processor 120U (12M Cache, up to 5.00 GHz)

Intel® Core™ 3 processor 100U (10M Cache, up to 4.70 GHz)

Intel® Processor U300EE (8M Cache, up to 4.30 GHz)

#### Processors family

Intel® Core™ processors (Series 1) Core 5 processor

Intel® Core™ processors (Series 1) Core 3 processor

Intel® Processor U-series

**NOTE:** 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 configuration surement of higher performance.

**NOTE:** 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://http://www.intel.com/technology/turboboost> for more information.

The HP Engage One G2 AiO System Retail System features this technology and includes processors that are part of the Intel® Stable Image Platform Program (SIPP) designed to ensure the stability promise inherent in the value proposition of the HP Engage One G2 AiO System Retail System.

### Technical Specifications – Operators Display

#### OPERATOR DISPLAY\*

##### **15.6" Diagonal Wide Aspect, Projective Capacitive, Anti-glare, Anti-smudge, IPS Display**

<b>Touch Technology</b>	10 touch-points Projected Capacitive Touchscreen
<b>Resolution</b>	1920 x 1080
<b>Aspect Ratio</b>	16:9
<b>Max Color</b>	16.7M
<b>Brightness</b>	Typical 350 Nits*
<b>Contrast Ratio</b>	Typical 1000:1
<b>Pixel Pitch</b>	0.17925 x 0.17925mm
<b>Viewing Angle</b>	Horizontal 178°, Vertical 178°
<b>Response rate</b>	25ms (Typical On / Off)
<b>Backlight</b>	LED
<b>Operating Temperature range</b>	0 to 50°C (+ 50°C as panel surface temperature)

\*NOTE: Nits is the measure of the typical brightness of the panel as specified, prior to anti-glare coating. All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

### Technical Specifications - Storage

#### MEMORY

##### Memory Type

	Maximum	# of Slots
DDR5 5600 Transfer rates up to 5600 MT/s	32GB	2 SODIMM

##### Memory Upgrades

8GB (1x8GB) DDR5 5600 SODIMM Memory
16GB (2x8GB) DDR5 5600 SODIMM Memory
16GB (1x16GB) DDR5 5600 SODIMM Memory
32GB (2x16GB) DDR5 5600 SODIMM Memory

**Note:** For systems configured with more than 3 GB of memory and a 32-bit operating system, all memory may not be available due to system resource requirements. Addressing memory above 4 GB requires a 64-bit operating system. Memory modules support data transfer rates up to 2400 MT/s; actual data rate is determined by the system's configured processor. See processor specifications for supported memory data rate.

**CAUTION:** You must shut down the Retail System and disconnect the power cord before adding or removing memory modules. Regardless of the power-on state, voltage is always supplied to the memory modules as long as the Retail System is plugged in to an active AC outlet. Adding or removing memory modules while voltage is present may cause irreparable damage to the memory modules or system board.

### Technical Specifications - Storage

#### STORAGE

##### Solid State Drives (SSD)

###### Drive Bays

(2) M.2 PCIe x4 2280/2230 Combo (for storage)

###### PCIe NVMe Solid State Drives (SSD)<sup>1</sup>

256GB M.2 2280 PCIe NVMe SED OPAL2 Value Solid State Drive

256GB M.2 2280 PCIe Value NVMe Solid State Drive

512GB M.2 2280 PCIe NVMe Value Solid State Drive

###### Storage accelerator

NVMe RAID<sup>1</sup>

1. Storage DriveLock does not work with Self-Encrypting or Optane based storage

##### 256 GB M.2 2280 PCIe NVMe SSD

<b>Unformatted Capacity</b>	256GB
<b>Interface</b>	PCIe
<b>Form Factor</b>	M.2
<b>Height</b>	2.30mm
<b>Width</b>	22mm
<b>Length</b>	80mm
<b>Weight</b>	10 g (00.2 lb)
<b>Maximum Sequential Read</b>	Up to 3100MB/s
<b>Maximum Sequential Write</b>	Up to 1200MB/s
<b>Logical Blocks</b>	500,118,192
<b>Operating Temperature</b>	0° to 70°C (32° to 158°F) [ambient temp]
<b>Features</b>	Pyrite 2.0; TRIM; L1.2

**NOTE:** For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows) of system disk is reserved for the system recovery software.

### Technical Specifications - Storage

#### 512GB M.2 2280 PCIe NVMe Value SSD

<b>Unformatted Capacity</b>	512GB
<b>Interface</b>	PCIe
<b>Form Factor</b>	M.2
<b>Height</b>	2.30mm
<b>Width</b>	22mm
<b>Length</b>	80mm
<b>Weight</b>	10 g (00.2 lb)
<b>Maximum Sequential Read</b>	Up to 3500MB/s
<b>Maximum Sequential Write</b>	Up to 1600MB/s
<b>Logical Blocks</b>	1,000,215,216
<b>Operating Temperature</b>	0° to 70°C (32° to 158°F) [ambient temp]
<b>Features</b>	Pyrite 2.0; TRIM; L1.2

#### 256GB PCIe 2280 NVMe Self Encrypted OPAL2 Value SSD

<b>Unformatted Capacity</b>	256 GB
<b>Interface</b>	PCIe
<b>Form Factor</b>	M.2
<b>Height</b>	2.30mm
<b>Width</b>	22mm
<b>Length</b>	2.8mm
<b>Weight</b>	10 g (00.2 lb)
<b>Maximum Sequential Read</b>	Up to 3100MB/s
<b>Maximum Sequential Write</b>	Up to 1200MB/s
<b>Logical Blocks</b>	500,118,192
<b>Operating Temperature</b>	0° to 70°C (32° to 158°F) [ambient temp]
<b>Features</b>	Opal 2.0; TRIM; L1.2

**NOTE:** For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows) of system disk is reserved for the system recovery software.

### Technical Specifications - Integrated Camera

#### NETWORKING

##### Ethernet (RJ-45)

Realtek RTL8153CH 10/100/1000 Integrated NIC
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##### Wireless

Intel® Wi-Fi 7 BE200 and Bluetooth® 5.4 wireless card (2x2, non-vPro, supporting gigabit data rate) <sup>1</sup>
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MediaTek MT7925 Wi-Fi 7 + Bluetooth® 6.0 (802.11be 2x2)
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<b>NFC Mirage WNC XRAV-1</b>	
<b>Dimensions (L x W x H)</b>	17.00 x 10.00 x 2.00 mm (0.67 x 0.39 x 0.08 inch)
<b>Chipset</b>	NPC300
<b>System Interface</b>	I2C
<b>NFC RF Standards</b>	ISO/IEC 14443 A ISO/IEC 14443 B ISO/IEC 15693 ISO/IEC 18092 ECMA-340 NFCIP-1 Target and Initiator ECMA-320 NFCIP-2
<b>NFC Forum Support</b>	Type 1, Type 2, Type 3 / Type 4 NFCIP-1 / NFCIP-2
<b>Reader Mode (PCD-VCD)</b>	ISO/IEC 14443 A ISO/IEC 14443 B ISO/IEC 15693 MIFARE 1K MIFARE 4K MIFARE DESFire FeliCa Jewel and Topaz
<b>Card Emulation Mode (PICC-VICC)</b>	ISO/IEC 14443 A ISO/IEC 14443 B and B' MIFARE FeliCa
<b>Frequency</b>	13.56 MHz
<b>NFC Modes Supported</b>	Reader/Writer, Peer-to-Peer

### Technical Specifications - Integrated Camera

<b>Raw RF Data Rates</b>	106 kbps, 212 kbps, 424 kbps, 848 kbps
<b>Operating Temperature</b>	0°C to 70°C (32°F to 158°F)
<b>Storage Temperature</b>	-20°C to 125°C (-4°F to 257°F)
<b>Humidity</b>	Operating: 10 - 90% Non-Operating: 5 - 95%
<b>Supply Operating Voltage</b>	4.35 to 5.25 Volts
<b>I/O Voltage</b>	1.8V or 3.3V
<b>Power Consumption</b>	Booster enable, VBAT= 3.3V, VCC_BOOST = 5V
<b>Mode</b>	Power Consumption, Typical
<b>Polling</b>	7.3 mA
<b>Detected Test Tag Type 1</b>	Total 283.8 mA Net Module 236.8 mA
<b>Detected Test Tag Type 2</b>	Total 288.8 mA Net Module 241.8 mA
<b>Detected Test Tag Type 3</b>	Total 287.7 mA Net Module 240.7 mA
<b>Detected Test Tag Type 4</b>	Total 282.3 mA Net Module 235.3 mA
<b>Antenna</b>	Antenna connector, 0.5mm pitch, 7 connector FPC. Antenna matching is external to module.

<b>Realtek RTL8153CH 10/100/1000 Integrated NIC<sup>1</sup></b>	
<b>Connector</b>	RJ-45
<b>System Interface</b>	USB
<b>Data rates supported<sup>2</sup></b>	10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14) 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30) 1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 802.3 clauses 40) Auto-Negotiation (Automatic Speed Selection) Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/sv
<b>IEEE Compliance</b>	IEEE 802.1p QoS (Quality of Service) Support IEEE 802.1q VLAN support IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable) IEEE 802.3az EEE (Energy Efficient Ethernet)
<b>Performance</b>	TCP/IP/UDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Jumbo Frame 9K

### Technical Specifications - Integrated Camera

<b>Power consumption</b>	Cable Disconnection: 25 mW 100Mbps Full Run: 450 mW 1000Mbps Full Run: 1000 mW WoL Enable(S3/S4/S5): 50 mW WoL Disable(S3/S4/S5): 25 mW
<b>Power Management</b>	ACPI compliant - multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption ACPI compliant - multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption
<b>Management Interface</b>	Auto MDI/MDIX Crossover cable detection
<b>IT Manageability</b>	Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite Virtual Cable Doctor for Ethernet cable status
<b>Intel BE200 Wi-Fi 7 +Bluetooth® 5.4 Wireless Card M.2 320MHz PCIe World-wide WLAN non-vPro<sup>1</sup></b>	
<b>Wireless LAN Standards</b>	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac IEEE 802.11ax IEEE 802.11be IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11i IEEE 802.11k IEEE 802.11r IEEE 802.11v
<b>Interoperability</b>	Wi-Fi certified
<b>Frequency Band</b>	802.11b/g/n/ax/be ▪ 2.402 - 2.482 GHz  802.11a/n/ac/ax/be ▪ 4.9 - 4.95 GHz (Japan) ▪ 5.15 - 5.25 GHz

### Technical Specifications - Integrated Camera

	<ul style="list-style-type: none"> <li>▪ 5.25 - 5.35 GHz</li> <li>▪ 5.47 - 5.725 GHz</li> <li>▪ 5.825 - 5.850 GHz</li> <li>▪ 5.955 - 6.415 GHz</li> <li>▪ 6.435 - 6.515 GHz</li> <li>▪ 6.535 - 6.875 GHz</li> <li>▪ 6.895 - 7.115 GHz</li> </ul>
<b>Data Rates</b>	<ul style="list-style-type: none"> <li>▪ 802.11b: 1, 2, 5.5, 11 Mbps</li> <li>▪ 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>▪ 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>▪ 802.11n: max 300Mbps</li> <li>▪ 802.11ac: 1733Mbps</li> <li>▪ 802.11ax: max 2.4Gbps</li> <li>▪ 802.11be: max 5.76Gbps</li> </ul>
<b>Modulation</b>	Direct Sequence Spread Spectrum OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM, 4096QAM
<b>Security</b>	<ul style="list-style-type: none"> <li>▪ IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only</li> <li>▪ AES-CCMP: 128 bit in hardware</li> <li>▪ 802.1x authentication</li> <li>▪ WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.</li> <li>▪ WPA2 certification</li> <li>▪ WPA3 certification</li> <li>▪ IEEE 802.11i</li> <li>▪ WAPI</li> </ul>
<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
<b>Roaming</b>	IEEE 802.11 compliant roaming between access points
<b>Output Power</b>	<ul style="list-style-type: none"> <li>▪ 802.11b, 1Mbps: +17dBm minimum</li> <li>▪ 802.11g, 6Mbps: +16dBm minimum</li> <li>▪ 802.11a, 6Mbps: +17dBm minimum</li> <li>▪ 802.11n, MCS7(HT20): +14dBm minimum</li> <li>▪ 802.11n, MCS7(HT40): +13.5dBm minimum</li> <li>▪ 802.11ac MCS9(VHT20): 13.5dBm minimum</li> <li>▪ 802.11ac MCS9(VHT40): +13.5dBm minimum</li> <li>▪ 802.11ac MCS9(VHT80): +12.5dBm minimum</li> <li>▪ 802.11ac MCS9(VHT160): +10.5dBm minimum</li> <li>▪ 802.11ax MCS11(HE20) (6GHz): +11.5dBm minimum</li> <li>▪ 802.11ax MCS11(HE40) (6GHz): +7.5dBm minimum</li> <li>▪ 802.11ax MCS11(HE80) (6GHz): +7.5dBm minimum</li> <li>▪ 802.11ax MCS11(HE160) (6GHz): +7.5dBm minimum</li> </ul>

### Technical Specifications - Integrated Camera

	<ul style="list-style-type: none"> <li>▪ 802.11be MCS13(EHT20) (6GHz): 11.5dBm</li> <li>▪ 802.11be MCS13(EHT40) (6GHz): 7.5dBm</li> <li>▪ 802.11be MCS13(EHT80) (6GHz): 7.5dBm</li> <li>▪ 802.11be MCS13(EHT160) (6GHz): 6.5dBm</li> <li>▪ 802.11be MCS13(EHT320) (6GHz): 4.5dBm</li> </ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>▪ Transmit mode 3.1 W</li> <li>▪ Receive mode 1.8 W</li> <li>▪ Idle mode (PSP) 180 mW (WLAN Associated)</li> <li>▪ Idle mode 50 mW (WLAN unassociated)</li> <li>▪ Connected Standby 10mW</li> <li>▪ Radio disabled 8 mW</li> </ul>
<b>Power Management</b>	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
<b>Receiver Sensitivity<sup>2</sup></b>	<ul style="list-style-type: none"> <li>▪ 802.11b, 1Mbps: -93.5dBm maximum</li> <li>▪ 802.11b, 11Mbps: -85dBm maximum</li> <li>▪ 802.11a/g, 6Mbps: -90.5dBm maximum</li> <li>▪ 802.11a/g, 54Mbps: -72.5dBm maximum</li> <li>▪ 802.11n, MCS0(HT20): -90dBm maximum</li> <li>▪ 802.11n, MCS7(HT20): -71.5dBm maximum</li> <li>▪ 802.11n, MCS0(HT40): -88.5dBm maximum</li> <li>▪ 802.11n, MCS7(HT40): -68.5dBm maximum</li> <li>▪ 802.11ac, MCS9(VHT20): -88.5dBm maximum</li> <li>▪ 802.11ac, MCS9(VHT40): -65.5dBm maximum</li> <li>▪ 802.11ac, MCS9(VHT80): -60.5dBm maximum</li> <li>▪ 802.11ac, MCS9(VHT160): -58.5dBm maximum</li> <li>▪ 802.11ax, MCS11(HE20) (6GHz): -59.5dBm maximum</li> <li>▪ 802.11ax, MCS11(HE40) (6GHz): -56.5dBm maximum</li> <li>▪ 802.11ax, MCS11(HE80) (6GHz): -53.5dBm maximum</li> <li>▪ 802.11ax, MCS11(HE160) (6GHz): -51.5dBm maximum</li> <li>▪ 802.11be, MCS13(EHT20) (6GHz): -55.5dBm maximum</li> <li>▪ 802.11be, MCS13(EHT40) (6GHz): -53.5dBm maximum</li> <li>▪ 802.11be, MCS13(EHT80) (6GHz): -51.5dBm maximum</li> <li>▪ 802.11be, MCS13(EHT160) (6GHz): -48.5dBm maximum</li> <li>▪ 802.11be, MCS13(EHT320) (6GHz): -45.5dBm maximum</li> </ul>
<b>Antenna type</b>	High efficiency antenna with spatial diversity Two embedded tri-band 2.4/5/6 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications
<b>Form Factor</b>	PCI-Express M.2 MiniCard
<b>Dimensions</b>	<ol style="list-style-type: none"> <li>1. Type 2230: 2.3 x 22.0 x 30.0 mm</li> <li>2. Type 1216: 1.67 x 12.0 x 16.0 mm</li> </ol>

### Technical Specifications - Integrated Camera

<b>Weight</b>	1. Type 2230: 2.8g 2. Type 1216: 1.3g
<b>Operating Voltage</b>	3.3v +/- 9%
<b>Temperature</b>	Operating: 14° to 158° F (-10° to 70° C) Non-operating: -40° to 176° F (-40° to 80° C)
<b>Humidity</b>	Operating: 10% to 90% (non-condensing) Non-operating: 5% to 95% (non-condensing)
<b>Altitude</b>	Operating: 0 to 10,000 ft (3,048 m) Non-operating: 0 to 50,000 ft (15,240 m)
<b>LED Activity</b>	LED Amber - Radio OFF; LED OFF - Radio ON
<b>HP Integrated Module with Bluetooth® 4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Wireless Card Technology</b>	
<b>Bluetooth® Specification</b>	4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Wireless Card Compliant
<b>Frequency Band</b>	2402 to 2480 MHz
<b>Number of Available Channels</b>	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)
<b>Data Rates and Throughput</b>	Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps BLE: 1 Mbps data rate; throughput up to 0.2 Mbps Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)
<b>Transmit Power</b>	The Bluetooth component shall operate as a Class I Bluetooth device with a maximum transmit power of +15.5 dBm for BR and +13dBm for EDR.
<b>Power Consumption</b>	Peak (Tx): 330 mW Peak (Rx): 230 mW Selective Suspend: 17 mW
<b>Bluetooth® Software Supported Link Topology</b>	1. Microsoft Windows Bluetooth Software 2. Linux/Chrome OS Bluetooth Software.
<b>Power Management</b>	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
<b>Certifications</b>	FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407 ETSI 300 328, ETSI 301 893, ETSI 303 687
<b>Bluetooth® Profiles Supported</b>	Bluetooth 4.1-ESR 5/6/7 Compliance LE Link Layer Ping LE Dual Mode LE Link Layer LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels Train Nudging & Interlaced Scan Bluetooth 4.2 ESR08 Compliance LE Secure Connection- Basic/Full

### Technical Specifications - Integrated Camera

	LE Privacy 1.2 -Link Layer Privacy LE Privacy 1.2 -Extended Scanner Filter Policies LE Data Packet Length Extension FAX Profile (FAX) Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP) Advanced Audio Distribution Profile (A2DP) Bluetooth 5.2 ESR9/10 Compliance
	ESR9/10 Compliance LE Advertisement Extensions Channel Selection Algo Limited High Duty Cycle Non-Connectable Advertising
	2Mbps LE LE Long Range Bluetooth 5.3 Host to Controller Encryption Key Control Enhancements Compliance to the latest Errata Section 12.3 of Bluetooth 5.3 specification

1. Wi-Fi 7: 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..

2. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

<b>MediaTek MT7925 Wi-Fi 7 + Bluetooth® 6.0 (802.11be 2x2)<sup>1</sup></b>	
<b>Wireless LAN Standards</b>	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac IEEE 802.11ax IEEE 802.11be IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11i IEEE 802.11k

### Technical Specifications - Integrated Camera

	IEEE 802.11r IEEE 802.11v
<b>Interoperability</b>	Wi-Fi certified
<b>Frequency Band</b>	802.11b/g/n/ax/be <ul style="list-style-type: none"> <li>▪ 2.402 - 2.482 GHz</li> </ul> 802.11a/n/ac/ax/be <ul style="list-style-type: none"> <li>▪ 4.9 - 4.95 GHz (Japan)</li> <li>▪ 5.15 - 5.25 GHz</li> <li>▪ 5.25 - 5.35 GHz</li> <li>▪ 5.47 - 5.725 GHz</li> <li>▪ 5.825 - 5.850 GHz</li> <li>▪ 5.955 - 6.415 GHz</li> <li>▪ 6.435 - 6.515 GHz</li> <li>▪ 6.535 - 6.875 GHz</li> <li>▪ 6.895 - 7.115 GHz</li> </ul>
<b>Data Rates</b>	<ul style="list-style-type: none"> <li>▪ 802.11b: 1, 2, 5.5, 11 Mbps</li> <li>▪ 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>▪ 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>▪ 802.11n: max 300Mbps</li> <li>▪ 802.11ac: 1733Mbps</li> <li>▪ 802.11ax: max 2.4Gbps</li> <li>▪ 802.11be: max 2.8Gbps (160MHz)</li> </ul>
<b>Modulation</b>	Direct Sequence Spread Spectrum OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM, 4096QAM
<b>Security</b>	<ul style="list-style-type: none"> <li>▪ IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only</li> <li>▪ AES-CCMP: 128 bit in hardware</li> <li>▪ 802.1x authentication</li> <li>▪ WPA, WPA2: 802.1x, WPA-PSK, WPA2-PSK, TKIP, and AES.</li> <li>▪ WPA2 certification</li> <li>▪ WPA3 certification</li> <li>▪ IEEE 802.11i</li> <li>▪ WAPI</li> </ul>
<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
<b>Roaming</b>	IEEE 802.11 compliant roaming between access points
<b>Output Power</b>	<ul style="list-style-type: none"> <li>▪ 802.11b, 1Mbps: +17dBm minimum</li> <li>▪ 802.11g, 6Mbps: +16dBm minimum</li> <li>▪ 802.11a, 6Mbps: +17dBm minimum</li> <li>▪ 802.11n, MCS7(HT20): +14dBm minimum</li> <li>▪ 802.11n, MCS7(HT40): +13.5dBm minimum</li> <li>▪ 802.11ac MCS9(VHT20): 13.5dBm minimum</li> </ul>

### Technical Specifications - Integrated Camera

	<ul style="list-style-type: none"> <li>▪ 802.11ac MCS9(VHT20): 13.5dBm minimum</li> <li>▪ 802.11ac MCS9(VHT40): +13.5dBm minimum</li> <li>▪ 802.11ac MCS9(VHT80): +12.5dBm minimum</li> <li>▪ 802.11ac MCS9(VHT160): +10.5dBm minimum</li> <li>▪ 802.11ax MCS11(HE20) (6GHz): +11.5dBm minimum</li> <li>▪ 802.11ax MCS11(HE40) (6GHz): +7.5dBm minimum</li> <li>▪ 802.11ax MCS11(HE80) (6GHz): +7.5dBm minimum</li> <li>▪ 802.11ax MCS11(HE160) (6GHz): +7.5dBm minimum</li> <li>▪ 802.11be MCS13(EHT20) (6GHz): +11.5dBm</li> <li>▪ 802.11be MCS13(EHT40) (6GHz): +7.5dBm</li> <li>▪ 802.11be MCS13(EHT80) (6GHz): +7.5dBm</li> <li>▪ 802.11be MCS13(EHT160) (6GHz): +6.5dBm</li> </ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>▪ Transmit mode 2.7 W</li> <li>▪ Receive mode 1.8 W</li> <li>▪ Idle mode (PSP) 180 mW (WLAN Associated)</li> <li>▪ Idle mode 50 mW (WLAN unassociated)</li> <li>▪ Connected Standby 10mW</li> <li>▪ Radio disabled 8 mW</li> </ul>
<b>Power Management</b>	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
<b>Receiver Sensitivity<sup>2</sup></b>	<ul style="list-style-type: none"> <li>▪ 802.11b, 1Mbps: -93.5dBm maximum</li> <li>▪ 802.11b, 11Mbps: -85dBm maximum</li> <li>▪ 802.11a/g, 6Mbps: -90.5dBm maximum</li> <li>▪ 802.11a/g, 54Mbps: -72.5dBm maximum</li> <li>▪ 802.11n, MCS0(HT20): -90dBm maximum</li> <li>▪ 802.11n, MCS7(HT20): -71.5dBm maximum</li> <li>▪ 802.11n, MCS0(HT40): -88.5dBm maximum</li> <li>▪ 802.11n, MCS7(HT40): -68.5dBm maximum</li> <li>▪ 802.11ac, MCS9(VHT20): -88.5dBm maximum</li> <li>▪ 802.11ac, MCS9(VHT40): -65.5dBm maximum</li> <li>▪ 802.11ac, MCS9(VHT80): -60.5dBm maximum</li> <li>▪ 802.11ac, MCS9(VHT160): -58.5dBm maximum</li> <li>▪ 802.11ax, MCS11(HE20) (6GHz): -59.5dBm maximum</li> <li>▪ 802.11ax, MCS11(HE40) (6GHz): -56.5dBm maximum</li> <li>▪ 802.11ax, MCS11(HE80) (6GHz): -53.5dBm maximum</li> <li>▪ 802.11ax, MCS11(HE160) (6GHz): -51.5dBm maximum</li> <li>▪ 802.11be, MCS13(EHT160) (6GHz): -48.5dBm maximum</li> </ul>
<b>Antenna type</b>	High efficiency antenna with spatial diversity Two embedded tri-band 2.4/5/6 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications
<b>Form Factor</b>	PCI-Express M.2
<b>Dimensions</b>	1. Type 2230: 2.3 x 22.0 x 30.0 mm

### Technical Specifications - Integrated Camera

<b>Weight</b>	1. Type 2230: 2.8g
<b>Operating Voltage</b>	3.3v +/- 9%
<b>Temperature</b>	Operating: 14° to 158° F (-10° to 70° C) Non-operating: -40° to 176° F (-40° to 80° C)
<b>Humidity</b>	Operating: 10% to 90% (non-condensing) Non-operating: 5% to 95% (non-condensing)
<b>Altitude</b>	Operating: 0 to 10,000 ft (3,048 m) Non-operating: 0 to 50,000 ft (15,240 m)
<b>LED Activity</b>	LED Amber - Radio OFF; LED OFF - Radio ON
<b>HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4/6.0 Wireless Technology</b>	
<b>Bluetooth® Specification</b>	4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4/6.0 Wireless Card Compliant
<b>Frequency Band</b>	2402 to 2480 MHz
<b>Number of Available Channels</b>	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)
<b>Data Rates and Throughput</b>	Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps BLE: 1 Mbps data rate; throughput up to 0.2 Mbps Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)
<b>Transmit Power</b>	The Bluetooth component shall operate as a Class I Bluetooth device with a maximum transmit power of +15.5 dBm for BR and +13dBm for EDR.
<b>Power Consumption</b>	Peak (Tx): 330 mW Peak (Rx): 230 mW Selective Suspend: 17 mW
<b>Bluetooth® Software Supported Link Topology</b>	1. Microsoft Windows Bluetooth Software 2. Linux/Chrome OS Bluetooth Software.
<b>Power Management</b>	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
<b>Certifications</b>	FCC (47 CFR) Part 15C, Section 15.247 & 15.249 ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark
<b>Bluetooth® Profiles Supported</b>	Bluetooth 4.1-ESR 5/6/7 Compliance LE Link Layer Ping LE Dual Mode LE Link Layer LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels Train Nudging & Interlaced Scan

### Technical Specifications - Integrated Camera

	Bluetooth 4.2 ESR08 Compliance LE Secure Connection- Basic/Full LE Privacy 1.2 -Link Layer Privacy LE Privacy 1.2 -Extended Scanner Filter Policies
	LE Data Packet Length Extension FAX Profile (FAX) Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP) Advanced Audio Distribution Profile (A2DP) Bluetooth 5.2 ESR9/10 Compliance LE Advertisement Extensions Channel Selection Algo Limited High Duty Cycle Non-Connectable Advertising 2Mbps LE LE Long Range Bluetooth 5.3 Host to Controller Encryption Key Control Enhancements Compliance to the latest Errata Section 12.3 of BT 5.3 specification Bluetooth 5.4 Bluetooth 6.0

1. 1. Wi-Fi 7: 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.

2. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

### Technical Specifications - Integrated Camera

#### AUDIO / MULTIMEDIA

##### High-Definition Audio

<b>Type</b>	Integrated
<b>HD Stereo Codec</b>	Realtek ALC3247-CG
<b>Internal Speaker Amplifier</b>	Codec integrated stereo Class-D Speaker Amplifier
<b>Sampling</b>	Speaker / Headphone: 16/24bit: 44.1/48kHz output Microphone / Headset Mic: 16bit, 44.1/48kHz input
<b>Analog Audio</b>	Yes
<b># of Channels on line-out</b>	2 channel (through audio jack)
<b>Internal speaker</b>	Yes, stereo speaker output, 2W per channel
<b>Microphone</b>	Yes, stereo digital microphone input with Realtek proprietary Acoustic Echo Cancellation (AEC), Beam Forming (BF), and Noise Suppression (NS) technology, significantly improving voice quality for PC VoIP applications
<b>Headphone</b>	Yes, Combo audio jack supports stereo headphone and headset mic

### Technical Specifications - Integrated Camera

#### CAMERA

**NOTE:** The Integrated webcam is a windows Hello Camera and IR is supported on 5MP Camera.  
Optional integrated high-speed USB 2.0 compliant webcam 5MP resolution CMOS image sensor. The module integrates a USB 2.0 controller, color-processing engine and high-quality image to provide up to 30fps at 5MP size in high-speed mode.

<b>Module Key Features</b>	1/5", F2.0, 5MP, webcam for OS with build-in UVC driver
<b>Automatic Image Control</b>	Automatic Exposure Control Automatic White Balance Control Automatic Gain Control
<b>Image Quality Control</b>	Brightness, Contrast, Gamma, Hue, Saturation, Sharpness, Backlight Compensation, Anti-Flicker, White Balance, Image Flip, Night Mode, Digital Zoom, Roll and Exposure Controls.
<b>Resolution Support</b>	4:3 → 5Mp (2560x1920) 16:9 → 5Mp (2560x1440), 1080p (1920x1080) 720p (1280x720), 640x360
<b>Power Saving Support</b>	Suspend, Hibernation
<b>On Board Component</b>	White LED Indicator x1 IR LED x1

<b>Performance</b>	
<b>Device Name</b>	HP 5MP Camera
<b>Brightness Control</b>	-64~64 (0)
<b>Contrast Control</b>	0~64 (32)
<b>Hue Control</b>	-40~40 (0)
<b>Saturation Control</b>	0~128 (64)
<b>Sharpness Control</b>	0~5 (0)
<b>Gamma Control</b>	72~500 (100)
<b>White Balance</b>	2800~6500, auto (4000, auto)
<b>Backlight</b>	0~1 (0)
<b>Exposure Control</b>	-8~0, auto (-5,Auto)
<b>Low light Compensation</b>	Enable, Disable (Enable)
<b>Anti-flicker (Power line)</b>	50Hz, 60Hz (50Hz)
<b>Format of Image Output Data</b>	YUY2, MJPG

### Technical Specifications – Weights and Dimensions

#### POWER

<b>Power Supply</b>	100W EPS Wall Mount Type-C, active PFC, 88% average efficiency at 115V & 89% at 230Vac 280W Smart PFC Standard Barrel 7.4mm Straight C14 SR-S; 89% efficiency (advance hub)
<b>Operating Voltage Range</b>	90V~264VAC
<b>Rated Voltage Range</b>	100V~240AC
<b>Rated Line Frequency</b>	50~60HZ
<b>Operating Line Frequency Range</b>	47~63HZ
<b>Rated Input Current</b>	100W $\leq$ 1.6A , <2.4A RMS/280W
<b>ENERGY STAR® Compliant</b>	ENERGY STAR® certified configurations available and EPEAT registered *
<b>Power Cord Length</b>	2.0m

**NOTE:** Power supply meets ENERGY STAR® compliance in conjunction with a select range of processors and modules.

\*Energy Star in under testing & in process of certification at the time this document is written.

### Technical Specifications – Weights and Dimensions

#### WEIGHTS & DIMENSIONS

**NOTE:** Weight and dimensions below do not include CFDs.

##### Head Unit- 15.6" Landscape

<b>Head Unit Dimensions (HxWxD)</b>	13 x 14.7 x 8.7 in 329.6 x 372.6 x 220 mm
<b>Head Unit Volume</b>	1648.51 cu in 27 L
<b>Head Unit Weight</b>	10.67 lb 4.84 kg

##### HP Engage One G2 Advanced Hub

<b>Hub Dimensions (HxWxD)</b>	1.1 x 10.8 x 3.9 in 27 x 275 x 100 mm
<b>Hub Weight</b>	1.8 lb 0.8 kg

##### HP Engage One G2 VESA Mount

<b>Mount Dimensions (HxWxD)</b>	0.7 x 5.1 x 4.7 in 18 x 130 x 120 mm
<b>Mount Weight (Without adapter)</b>	17.14 lb 0.31 kg

##### Engage One G2 Stand only

<b>Stand Weight</b>	5.2 lb 2.38 kg
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##### Engage One G2 Swivel Stand with Stability Plate only

<b>Swivel Stand Weight</b>	6 lb 2.73 kg
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#### System Summary Dimension Matrix

Width (Horizontal) x Height (Vertical) x Thickness

<b>15.6" Landscape Display Head only Dimensions</b>	372.6 x 233.6 x 17.5 mm
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**NOTE\*:** 23.8" Portrait can only be support with SLIM VESA mount, not configurable with any Column stand, not configurable with column hub.

### Technical Specifications - Weights and Dimensions

Width x Depth x Thickness

<b>Stability Base only Dimensions</b>	305.3 x 220.3 x 21.7
<b>Stability Base with Advanced Hub only Dimensions</b>	305.3 x 220.3 x 40.9

#### Advanced Hub with Stability Plate

<b>Dimensions</b>	1.6 x 12 x 8.7 in 40.9 x 305.3 x 220.3 mm
<b>Volume</b>	167.87 cu in 2.8 L
<b>Weight</b>	6 lb 2.73 kg

#### Landscape dimensions (when working angle is 60 degree)

<b>Dimensions</b>	11.3 x 14.7 x 8.9 in 287.4 x 372.6 x 226 mm
<b>Volume</b>	1476.75 cu in 24.2 L
<b>Weight</b>	10.67 lb 4.84 kg

#### Landscape dimensions + Advanced Hub (when working angle is 60 degree)

<b>Dimensions</b>	12.4 x 14.7 x 8.9 in 314.3 x 372.6 x 226 mm
<b>Volume</b>	1615.25 cu in 26.5 L
<b>Weight</b>	13.14 lb 5.96 kg

**NOTE:** HP Engage One Pro All-in-One System can only be supported in Landscape mode.

### Technical Specifications – Miscellaneous Features

#### MISCELLANEOUS FEATURES

##### Temperature, Humidity, Altitude

<b>Temperature</b>	<b>Operating</b>	50° to 104° F (10 to 40° C)
	<b>Non-operating</b>	-22° to 149° F (-30° to 65° C)
<b>Humidity</b>	<b>Operating</b>	20%-85% relative humidity at max inlet temperature
	<b>Non Operating</b>	20%-85% relative humidity at max inlet temperature
<b>Shock</b>	<b>Operating</b>	40g, six surfaces
	<b>Non Operating</b>	30g, six surfaces
<b>Vibration</b>	<b>Operating</b>	2-g peak acceleration
	<b>Non Operating</b>	3-g peak acceleration
<b>Altitude</b> (unpressurized)	<b>Operating</b>	0 to 10,000 ft (3,048 m)
	<b>Non-operating</b>	0 to 30,000 ft (9,144 m)

##### General

<b>Magnetic stripe formats</b>	ISO 7811, AAMVA
<b>Card Thickness</b>	0.38 to 1.14 mm (0.015 to 0.045 in)
<b>Indicators</b>	Bi-colored LED, beeper (requires system audio driver)
<b>Card Speed</b>	3 to 75 ips (7.6 to 190.5 cm/s)

##### Mechanical

<b>Weight</b>	5.67 g
<b>Slot width</b>	1.14 mm (0.045 in)

##### Connection

<b>Interface</b>	Eight-pin male Molex 51021-0800
<b>Cable Length</b>	125 ± 6.4 mm

##### Power

<b>Power Supply</b>	3.0 to 3.6 VDC
<b>I/O Voltage Range</b>	2.7 to 3.6 VDC
<b>Active Power Supply Current</b>	5
<b>mA Standby Power Supply Current</b>	0.03 mA

### *Technical Specifications - Miscellaneous Features*

#### **Temperature Range**

<b>Operating</b>	0°C to 55°C
<b>Relative Humidity</b>	-10% to 90% non-condensing

#### **Reliability**

<b>Operating Life</b>	1,000,000 card swipes minimum
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#### **Agency Certifications**

FCC, CE, USB-IF

#### **Kit Contents**

HP Engage One Pro Magnetic Stripe Reader, documentation, warranty card.

### Technical Specifications - AMO

## ENVIRONMENTAL & INDUSTRY

### Environmental Data

#### Eco-Label Certifications & declarations

This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

- IT ECO declaration
- US ENERGY STAR® certified configurations available
- EPEAT Gold with Climate+ registered configurations available. See <http://www.epeat.net> for registration status and tier levels by country.

\* Based on US EPEAT registration according to EPEAT criteria and EPEAT Climate+, status and tier level varies by country. Visit <http://www.epeat.net> for more information.

#### Sustainable Impact Specifications

- 75% post-consumer recycled plastic<sup>4</sup>
- Low halogen<sup>1</sup>
- Ocean-Bound Plastic in speaker enclosure<sup>2</sup>
- 25% ITE-derived closed loop plastic<sup>6</sup>

#### System Configuration

The configuration used for the Energy Consumption and Declared Noise Emissions data for the Engage One Pro model is based on a typically configured system featuring an SSD, a high efficiency power supply, and a Microsoft Windows® operating system.

## HP Engage One G2 AiO System Model 15.6"

### Energy Consumption

(in accordance with US

ENERGY STAR® test method)

	<b>115VAC, 60Hz</b>	<b>230VAC, 50Hz</b>	<b>100VAC, 60Hz</b>
Normal Operation (Short idle)	9.83W	9.62W	9.82W
Normal Operation (Long idle)	2.47W	2.46W	2.46W
Sleep	2.47W	2.46W	2.46W
Off	0.95W	0.95W	0.96W
<b>Heat Dissipation*</b>	<b>115VAC, 60Hz</b>	<b>230VAC, 50Hz</b>	<b>100VAC, 60Hz</b>
Normal Operation (Short idle)	33.54 BTU/hr	32.82 BTU/hr	33.51 BTU/hr
Normal Operation (Long idle)	8.43 BTU/hr	8.19 BTU/hr	8.19 BTU/hr
Sleep	8.43 BTU/hr	8.19 BTU/hr	8.19 BTU/hr
Off	3.24 BTU/hr	3.24 BTU/hr	3.28 BTU/hr

\* Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour

### Technical Specifications – AMO

#### Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)

Typically Configured – Idle  
Fixed Disk – Random writes

Sound Power  
( $L_{WA,d}$ , bels)

2.6  
2.6

Sound Pressure  
( $L_{pA,m}$ , decibels)

16.7  
16.7

**NOTE:** Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.

#### Longevity and Upgrading

This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include:

- 2 memory slots
- M.2 2230 slot for WLAN
- (1) M.2 2280 slot for SSD

Spare parts are available throughout the warranty period and or for up to “5” years after the end of production.

#### Batteries

This battery(s) in this product comply with EU Directive 2006/66/EC

Batteries used in the product do not contain:

Mercury greater than 1ppm by weight

Cadmium greater than 20ppm by weight

Battery size: CR2032 (coin cell)

Battery type: Lithium

#### Additional Information

- This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC.
- This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive - 2002/96/EC.
- This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).
- This product is registered as EPEAT Gold and has attained EPEAT Climate+ in the US, status and tier level varies by country. See <http://www.epeat.net>.
- Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.
- This product contains 75% post-consumer recycled plastics (by wt.)
- This product is 96% recycle-able when properly disposed of at end of life.

### Technical Specifications – AMO

#### Packaging Materials

**External:** PAPER/Corrugated

**Internal:** PLASTIC/Polyethylene Expanded – EPE

PLASTIC/Polyethylene low density – LDPE

The EPE foam packaging material is made from 100% recycled content.

The corrugated paper packaging materials contains at least 35% recycled content.

#### Material Usage

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at

<http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf>):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants – may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

**NOTES:** \* EPE foam packaging material is considered “recycled” pre-Consumer. The scrap or waste EPE material from the manufacturing process of these EPE foam pieces are re-introduced into the manufacturing process.

### Technical Specifications – AMO

#### Packaging Usage

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

#### End-of-life Management and Recycling

HP Inc. offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: <http://www.hp.com/go/reuse-recycle> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the HP Inc. web site at: <http://www.hp.com/go/recyclers>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

#### HP Inc. Corporate Environmental Information

For more information about HP's commitment to the environment

Global Citizenship Report

<http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html>

Eco-label certifications

<http://www8.hp.com/us/en/hp-information/environment/ecolabels.html>

ISO 14001 certificates:

[PC Product Design ISO 14001 certificate](#)

and

[HP Operations ISO 14001 certificate](#)

#### Footnotes

1.External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.

2.Recycled plastic content percentage is based on the definition set in EPEAT criteria.

### Technical Specifications - AMO

#### AFTER MARKET OPTIONS in MSPecs

AMO Part No.	Description
CU6T0AA	HP Engage One G2 VESA Mount
CU6T6AA	HP 1.8m USB-C VESA to Adv Hub Cbl
CU6T1AA	HP Engage One G2 Advanced Hub
9YH43AA	Engage One Pro U-shaped Adapter
CU6T2AA	HP 0.45m USB-C Head to Att Adv Hub Cbl
CU6T3AA	HP 1.8m USB-C Head to DIB Adv Hub Cbl
CU9U5AA	HP Engage One G2 2x20 CFD Ring
CU6T4AA	HP 0.45m USB-A 2x20 CFD Att Adv Hub Cbl
CU6T5AA	Cbl HP 1.8m USB-A 2x20 CFD to DIB AdvHub
CU9U6AA	HP Engage One G2 10-inch CFD Ring
8NW78AA	HP 1.8m USB-C 10inch CFD to Advanced hub Cable
CJ3C5AA	HP 0.62m USB-C 10-inch CFD to Advanced Hub Cable
2WY48AA	Engage 10-IN Display Vesa Plate
C3QT0AA	HP Engage 10t Tap + Scan Display
C3QT1AA	HP Engage 10t Tap Display
C3QT2AA	HP Engage 10 Touch Display
C3QT3AA	HP Engage 10 Display
2W7M4AA	Engage One Pro Flexible Pole Single Mount
2W7M3AA	Engage One Pro Flexible Back-to-Back Bracket

#### Compatibility

The HP Engage One Magnetic Stripe Reader is compatible with the HP Engage One G2 All-in-One System.

**NOTE:** Not all Point of Sale system models are available in all regions.

#### Warranty

Three (3) year limited warranty with advance exchange when purchased from HP.

### *Technical Specifications – Service and support*

#### **SERVICE AND SUPPORT**

Ninety-day (90-90-90), one-year (1-1-1), and three-year (3-3-3) limited warranty<sup>1</sup> delivers (ninety days/one year/three years) of on-site, next business day<sup>2</sup> service for parts and labor and complimentary limited technical support. Three-year onsite and labor are not available in all countries. Service offers terms up to 5 years by choosing an optional HP Care Pack. To choose the right level of service for your HP product, visit HP Care Pack Central: <http://http://www.hp.com/go/cpc>.<sup>3</sup>

1. Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.
2. On-site service may be provided pursuant to a service contract between HP and an authorized HP third-party provider, and is not available in certain countries. Global service response times are based on commercially reasonable best effort and may vary by country.
3. 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 <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.

