



# HP Engage One 143 All-in-One Touch (B85GWUA)

## Overview

### **Retail redefined by design.**

Transform your retail space with a versatile point of sale system that elevates the customer experience and supports your critical business operations. With security, durability, and flexibility built into its gorgeous design, the HP Engage One system marks a new era in retail.

### **Sleek. Modern. Adaptable.**

Build the ideal checkout, interactive signage or self-service solution for your retail or hospitality environment with the streamlined, versatile HP Engage One system and its accessory ecosystem<sup>[1]</sup>, all available in a choice of colors.

### **Durable. Powerful. Built for the day ahead.**

Power through your peaks with 7th generation Intel® processors and a durable system that has a 5-year lifecycle and up to a 3-year standard limited warranty.<sup>[2]</sup> Get up to 5 years peace of mind with optional HP Care Pack.<sup>[3]</sup>

### **Secure data. Protect customers.**

Today's business calls for next-level security. The HP Engage One answers with a self-healing PC BIOS and firmware that shields the BIOS against attacks to help keep your data, devices, and customers safe and secure.

## Features

### Optimize your space in style.

Set a new bar for sophistication with components and accessories that complement the HP Engage One aesthetic, including stands, magnetic stripe reader, barcode scanner, customer-facing displays, and an in-column or standalone receipt printer.<sup>[1]</sup>

### Alluring and easy to use.

Engage customers and enable associates with a modern, polished 14" diagonal touchscreen display that's intuitive and responsive for fast interaction and has an anti-glare coating to minimize light interference.

### Retail-ready durability.

Entrust a device that's not only beautiful but retail-hardened. It's designed to pass MIL-STD 801G with a sturdy, anodized aluminum chassis that resists spills by channeling liquids away from the screen.<sup>[5]</sup>

### Secure inside and out.

Get extra protection with automatic updates and security checks from HP BIOSphere Gen3. Control application and system access with Device Guard, Credential Guard, and an optional fingerprint reader.<sup>[1,6,7]</sup>

### Powerhouse performer.

The HP Engage One is ready for duty with 7th generation Intel® processors, efficient M.2 storage, fast DDR4 memory, and optional wireless LAN with Bluetooth®. An integrated SD card reader supports easy backup, deployment, and servicing.<sup>[1,8]</sup>

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*[1] Optional features sold separately or as add-on features.*

*[2] 1- or 3-year limited warranty, depending on country.*

*[3] HP Care Pack Services are optional. Service levels and response times for HP Care Pack Services 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.*

*[5] MIL-STD testing is pending and is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.*

*[6] HP BIOSphere Gen3 requires Intel® or AMD® 7th generation processors.*

*[7] Microsoft Device Guard and Credential Guard are available with Windows 10 IoT Enterprise 2016 LTSC 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. The installation of Windows 10 Enterprise and Microsoft Device Guard and Credential Guard are available through HP Configuration & Deployment Services.*

*[8] Wireless access point and Internet access required.*

## Specifications

<b>Form factor</b>	All-in-one
<b>Operating system</b>	FreeDOS 2.0
<b>Processor family</b>	7th Generation Intel® Core™ i3 processor
<b>Processor</b>	Intel® Core™ i3-7100U with Intel® HD Graphics 620 (2.4 GHz base frequency, 3 MB cache, 2 cores) <sup>[6]</sup>
<b>Chipset</b>	Multi-chip package
<b>Memory</b>	16 GB DDR4-2400 MT/s (1 x 16 GB)
<b>Memory Slots</b>	2 SODIMM
<b>Internal Storage</b>	1 TB PCIe® NVMe™ TLC M.2 SSD
<b>Internal drive bays</b>	One M.2
<b>Graphics (integrated)</b>	Intel® HD Graphics 620
<b>Display</b>	35.6 cm (14") diagonal, FHD (1920 x 1080), touch, anti-glare
<b>Display</b>	14" diagonal, FHD (1920 x 1080), touch, anti-glare <sup>[15]</sup>
<b>Audio</b>	Integrated HD audio with Realtek ALC3228 codec with standards internal speakers and stereo headphone jack
<b>Dimensions (W x D x H)</b>	33.62 X 21.64 X 1.76 cm (head unit); 9.6 x 9.6 x 26 cm (stand with column printer); 28.4 x 16.2 x 2.92 cm (connectivity base)
<b>Dimensions (W x D x H)</b>	13.23 x 8.51 x 0.69 in (head unit); 3.77 x 3.77 x 10.2 in (stand with column printer); 11.23 x 6.37 x 1.14 in (connectivity base)
<b>Weight</b>	1.33 kg (rotate stand); 1.09 kg (fixed stand); 1.38 kg (head unit); 0.56 kg (connectivity base); 1.94 kg (printer)
<b>Weight</b>	2.92 lb (rotate stand); 2.39 lb (fixed stand); 3.03 lb (head unit); 1.23 lb (connectivity base); 4.26 lb (printer)
<b>Ports</b>	1 cash drawer connector; 1 power connector; 1 RJ-45; 1 USB Type-C™ (charging); 2 serial; 4 USB 3.0; 1 Powered 24 Volt USB; 2 Powered 12 Volt USB <sup>[13]</sup>
<b>Expansion slots</b>	1 M.2 2230; SD card reader <sup>[6]</sup>
<b>Ports</b>	1 headset connector
<b>Sustainable impact specifications</b>	Low halogen
<b>Security management</b>	Credential guard and password protection; Device guard; HP ElitePOS Keyed Cable Lock; Power-on password (via BIOS); Setup password (via BIOS); Trusted Platform Module TPM 2.0 Embedded Security Chip; USB enable/disable (via BIOS); VESA mounting; HP Sure Click; HP Secure Erase; HP Client Security Manager; HP Multi-Factor Authenticate; HP Sure Click (Standard); HP MIK (SCCM Integration); HP Image Assistant; HP vPRO Support <sup>[9,12,16,17,18,19]</sup>
<b>UPC number</b>	198990415918

## Additional specifications

Accessories	HP Engage Go Serial/USB Thermal Printer 1RL96AA (Black) 3GS19AA (White); HP Engage Go Top Mount 2x20 CFD 1RL95AA (Black) 3GS18AA (White); HP Engage Go 2D Barcode Scanner 1RL97AA (Black) 3GS20AA (White); HP Engage Go 10.1in Touch Display 1XD81AA (Black) 3FH67AA (White); HP Engage Go 10.1in Non-Touch Display 1XD80AA (Black) 3FH66AA (White); HP Engage Go Fingerprint Reader 1RL98AA (Black) 3GS21AA (White). Configurable only: HP Engage Go MSR; HP Engage Go Column Printer; HP Engage Go Rotate/Tilt Stand; HP Engage Go Fixed Position Stand; HP USB-C mini dock
Certifications and compliances	IEC 60601-1-2
Color	Ebony black or ceramic white
Datasheet photo 1	Publication photos/Nantucket_1.jpg
Datasheet photo 3	Publication photos/Nantucket_3.jpg
Datasheet photo 4	Publication photos/Winterfell_system.jpg
Datasheet photo 5	Publication photos/Nantucket_5.jpg
Datasheet publication number	4AA7-0641ENW
Display resolution (pixels)	1920 x 1080
Display resolution standard	FHD
Display size (diagonal) uom	"
Display size (diagonal, imperial)	14
Display size (diagonal, metric)	35.6
Display size (diagonal, metric) uom	cm
Display surface treatment	Anti-glare
Display touchscreen type	Touch screen
External I/O ports footnote number	[14]
I/O Port location	Back
I/O Port location	Side
Magnetic stripe reader	HP Retail Integrated Dual-Head MSR; Optional integrated magnetic stripe reader; Single-head, bi-directional, and encryption capable <sup>[8]</sup>
Memory layout (slots & size)	1 x 16 GB
Memory module type	SODIMM
Memory size	16
Memory size uom	GB
Memory speed	2400
Memory speed uom	MT/s
Memory type	DDR4

Number of memory slots	1
Operating humidity range	20 to 85% RH
Operating temperature range	50 to 104°F
Operating temperature range	10 to 40°C
Processor Brand	Intel®
Processor base frequency	2.4
Processor cache	3 MB L3
Processor core	2
Processor family	Core™ i3
Processor frequency UOM	GHz
Processor generation	7th Generation
Processor model	7100U
Processor threads	4
Product brand name	HP
Product long name specifications	HP Engage One All-in-One System
Standard memory note	Transfer rates up to 2400 MT/s.
Storage capacity	1
Storage capacity uom 01	TB
Storage form factor 01	M.2
Storage interface 01	PCIe®
Storage interface protocol 01	NVMe™
Storage memory technology 01	TLC
Storage type	SSD
Storage type 01	SSD
UNSPSC code	43211505

[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.

[8] Optional MSR is integrated directly into display head unit.

[9] HP BIOSphere with Sure Start available only on business PCs with HP BIOS. HP BIOSphere Gen 3 requires Intel® 7th generation processors.

[12] Device Guard is only available with Windows 10 IoT 64 Enterprise LTSB for Retail. Device Guard is not available with Windows 10 Pro.

[13] Optional HP Engage Go Advanced I/O Connectivity Base specs shown. Optional HP Engage Go Basic I/O Hub and HP USB-C Hub also available. Refer to system quick specs for full I/O specification <http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c05573243s>.

*[15] For further details please refer to Quick Specs document.*

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

*[17] vPRO support requires either an Intel Core i5 or Core i7 processor*

*[18] vPRO support also requires a vPRO WLAN Card for these products*

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

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## Accessories

### Point of Sales System Options

★ : Recommended

#### POS Cash Drawer

HP Heavy Duty Cash Drawer	<b>FK182AA ★</b>
HP Standard Duty Cash Drawer	<b>QT457AA ★</b>
HP Engage One Prime Cash Drawer	638M5AA
HP Standard Duty Cash Drawer	QT457AT
HP Standard Duty Till with Lockable Lid	QT458AA
HP Standard Duty Till with Lockable Lid	QT458AT
HP USB Standard Duty Cash Drawer	E8E45AA

#### POS Bar Code and Magnetic Stripe Readers

HP Engage Imaging Barcode Scanner II	<b>5YQ08AA ★</b>
HP Engage 2D G2 Barcode Scanner	6Y2V4AA
HP Engage 2D G2 White Barcode Scanner	6Y2V5AA
HP Engage Imaging Barcode Scanner II	5YQ08AT
HP Engage One Prime Barcode Scanner	638L9AA
HP Engage One Prime Barcode Scanner	638L9AT

#### POS Keyboard

HP POS USB Keyboard with Magnetic Stripe Reader	<b>FK218AA ★</b>
HP POS USB Keyboard with Magnetic Stripe Reader	<b>FK218AT ★</b>
HP POS USB Keyboard	FK221AA
HP POS USB Keyboard	FK221AT

#### POS Printer

Epson TM-88VI Serial Ethernet USB Printer only	<b>2HV25AA ★</b>
Epson H6000V Hybrid POS Printer	4ZE21AA
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 Terminal Accessories

Datalogic 1500i Presentation Scanner	9BU50AA
Datalogic 1500i Whi Presentation Scanner	3F568AA
Datalogic 3450Vsi Presentation Scanner	7UZ38AA
ENS Genesis Stability Plate	7ZZ24AA
ENS Genesis Stand	7ZE84AA
ENS GluePad Countermount	8NW79AA
HP Engage Basic I/O Base	5LT86AA
HP Engage Heavy Duty Cash Drawer RL	8QX99AA
HP Engage One AiO USB 3.1 CM-CM 1.8M Hub	8NW78AA
HP Engage One Basic I/O Connectivity Base	1UN11AA
HP Engage One Prime Cash Drawer Cable	5UU45AA
HP Engage One Retail Advanced I/O Connectivity Base	1UN12AA
HP Engage One Retail Advanced I/O Connectivity Base	5LT84AA
HP Engage USB-C to HDMI Adapter	6FV70AA

### POS Monitors and Accessories

HP 300cm DP and USB B to A Cable for L7016t L7014t and L7010t	V4P96AA
HP 300cm DP and USB Power Cable for L7014	V4P95AA
HP 300cm DP and USB Power Cable for L7014	V4P95AT
HP 300cm DP and USB Power Y Cable for L7010t L7014t and L7016t	V4P94AA
HP 700mm Cable Kit for CFD on RP9	V7S63AA
HP Engage 6 Clean Mount Stand	10P60AA
HP Engage 6 Stability Mount Stand	10P61AA
HP Monitor Stand for L7010t L7014 and L7014t	T6N33AA
HP Monitor Stand for L7016t	W0Q45AA

### POS Display Accessories

HP Engage 10 HD No Stand + VESA Mount Monitor	3F1W8AA
HP Engage 10t HD No Stand + VESA Mount Monitor	3F1W9AA
HP Engage One 10.1-inch Display	1XD80AA

HP Engage One 10.1-inch Touch Display	1XD81AA
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HP Engage One W 10.1-inch Display	3FH66A8
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HP Engage One W 10.1-inch Display	3FH66AA
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HP Engage One W 10.1-inch Touch Display	3FH67A8
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HP Engage One W 10.1-inch Touch Display	3FH67AA
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HP L7014 14-inch Retail Monitor	T6N31AA
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## **POS Fingerprint Readers**

HP Engage One Fingerprint Reader	1RL98AA
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## **POS Cases and Covers**

HP Engage One Top Mount 2x20 CFD	1RL95AA
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## **Rack Brackets/Bezels/ Panels/Rails/ Trays/Mounting**

### **Mounting Kits**

HP Engage One Undercounter Mount Kit	5DS15AA
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HP Engage One VESA Wall Mount	5DS14AA
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# Accessories for PC

## Keyboards/Other Input Devices

★ : Recommended

### Wired Keyboards

HP Business Slim Smartcard Keyboard	Z9H48AA
HP Business Slim Smartcard Keyboard	Z9H48AT

## Port Replicators/Dongles/Docking

### Cables/Cable Adapters/Dongles

HP USB-C to DP Adapter	4SH08AA
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### Port Replicators

HP Universal USB-C Multiport Hub	50H55AA
HP Universal USB-C Multiport Hub	50H55PT
HP Universal USB-C Multiport Hub	50H55UT
HP Universal USB-C Multiport Hub	50H98AA

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