



HP Engage One 145 All-in-One Touch (3E8E9US)

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^[1], 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.^[2] Get up to 5 years peace of mind with optional HP Care Pack.^[3]

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.^[1]

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.^[5]

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.^[1,6,7]

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.^[1,8]

[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 LTSB 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

Form factor	All-in-one
Operating system	Windows 10 Pro 64
Processor family	7th Generation Intel® Core™ i5 processor
Processor	Intel® Core™ i5-7300U (2.6 GHz base frequency, up to 3.5 GHz with Intel® Turbo Boost Technology, 3 MB L3 cache, 2 cores) ^[6,7]
Chipset	Multi-chip package
Memory	16 GB DDR4-2400 SDRAM (2 x 8 GB)
Memory Slots	2 SODIMM
Internal Storage	256 GB PCIe® NVMe™ TLC M.2 SSD
Internal drive bays	One M.2
Graphics (integrated)	Intel® HD Graphics 620
Display	35.6 cm (14") diagonal, FHD (1920 x 1080), touch, anti-glare
Display	14" diagonal, FHD (1920 x 1080), touch, anti-glare ^[15]
Audio	Integrated HD audio with Realtek ALC3228 codec with standards internal speakers and stereo headphone jack
Minimum dimensions (W x D x H)	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)
Minimum dimensions (W x D x H)	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)
Weight	1.33 kg (rotate stand); 1.09 kg (fixed stand); 1.38 kg (head unit); 0.56 kg (connectivity base); 1.94 kg (printer)
Weight	2.92 lb (rotate stand); 2.39 lb (fixed stand); 3.03 lb (head unit); 1.23 lb (connectivity base); 4.26 lb (printer)
Ports	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 ^[13]
Expansion slots	1 M.2 2230; SD card reader ^[6]
Ports	1 headset connector
Sustainable impact specifications	Low halogen
Security management	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 ^[9,12,16,17,18,19]
UPC number	195908340003

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
ECC memory	No
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 ^[8]
Memory layout (slots & size)	2 x 8 GB
Memory module type	DIMM
Memory size	16
Memory size uom	GB
Memory speed	2400
Memory speed uom	MHz

Memory type	DDR4
Number of memory slots	2
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	2.6
Processor cache	3 MB L3
Processor core	2
Processor family	Core™ i5
Processor frequency UOM	GHz
Processor frequency technology	Intel® Turbo Boost Technology
Processor generation	7th Generation
Processor maximum frequency	3.5
Processor maximum frequency uom	GHz
Processor model	7300U
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	256
Storage capacity uom 01	GB
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 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] 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.

Accessories

Point of Sales System Options

★ : Recommended

POS Cash Drawer

HP Heavy Duty Cash Drawer	FK182AA ★
HP Standard Duty Cash Drawer	QT457AA ★
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

POS Bar Code and Magnetic Stripe Readers

HP Engage Imaging Barcode Scanner II	5YQ08AA ★
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	FK218AA ★
HP POS USB Keyboard	FK221AA
HP POS USB Keyboard	FK221AT
HP POS USB Keyboard with Magnetic Stripe Reader	FK218AT

POS Printer

Epson TM-88VI Serial Ethernet USB Printer only	2HV25AA ★
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
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HP Engage Serial Ethernet USB Thermal Printer	299U7AA
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HP Value Thermal Receipt Printer	4AK33AA
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POS Terminal Accessories

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

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

HP Engage 10 HD No Stand + VESA Mount Monitor	3F1W8AA
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HP Engage 10t HD No Stand + VESA Mount Monitor	3F1W9AA
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HP Engage 2 x 20 Pole Display	5RD97AA
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HP Engage One 10.1-inch Display	1XD80A7
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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 L7014 14-inch Retail Monitor	T6N31AA

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
HP Engage One VESA Wall Mount	5DS14AA

Accessories for PC

Keyboards/Other Input Devices

★ : Recommended

Wired Keyboards

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

Wired Combo

HP USB Keyboard and Mouse Healthcare Edition	1VD81AA
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Wireless Keyboards

HP Wireless Premium Keyboard	Z9N41AA
HP Wireless Premium Keyboard	Z9N41AT

Port Replicators/Dongles/Docking

Port Replicators

HP Multi-Port + 90W Power Supply	6C6D2AA	obsolete
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	

Cables/Cable Adapters/Dongles

HP USB-C to DP Adapter	4SH08AA
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