

HP Engage One Pro All-in-One System (AR8F9UT)

Overview

Ultra sleek and fast for exceptional experiences



Introducing the point of sale system meticulously crafted to elevate your customer experience and power essential business operations. It combines a sleek yet durable design with powerhouse computing and offers an abundance of deployment options so you can tailor it to your specific needs.

Every detail crafted with intention.

Purposeful design meets sophisticated craftsmanship in a sleek aluminum frame with hidden cable management to keep your space clutter-free. Experience full visibility under any light with bright, anti-glare touchscreen display^[2].

Fast performance for ultra smooth interactions.

Push productivity to the limit with up to a Intel[®] processors^[3] and optimized thermals, delivering fast, seamless customer interactions while running whisper quiet.

Deploy it your way

Choose a size, mounting, and orientation for a setup that suits your needs. And with plenty of ports for accessories, it's the POS system that can be deployed how you want it.

Durability you need. Security you can trust.

This system is designed to pass rigorous military standard testing^[6], IP 44 rating to resist dust and liquid intrusion^[7], and withstand frequent sanitization^[8] meets standards for IEC 60601-1-2 (EMC standard for medical electrical equipment and medical electrical systems). Advanced security features come standard, to help keep your data, devices, and customers safe and protected.

[2] Actual brightness will be lower with touch screen.

[3] Multicore 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.

[6] MIL-STD-810G testing is not intended to demonstrate fitness of U.S. Department of Defense (DoD) contract requirements or for military use. Test results are not a guarantee of future

performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.

[7] HP Total Test Process test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.

[8] Tested by up to 10,000 wipes with germicidal towelettes over a 3-year period. See user guide for cleaning instructions. Tested with Sani-Cloth® HB Germicidal Disposable Wipe (EPA Reg. No. 61178-4-9480), Sani-Cloth® Plus Germicidal Disposable Cloth (EPA Reg. No. 9480-6), Sani-Cloth® AF3 Germicidal Disposable Wipes (EPA Reg. No. 9480-9), Super Sani-Cloth® Germicidal Disposable Wipes (EPA Reg. 9480-4), CaviWipes® (EPA Reg. No. 46781-8), Clorox Healthcare® Bleach Germicidal Wipes (EPA Reg. No. 67619-12), Windex® Electronic Wipes and PDI Easy Screen® Cleaning Wipe.

Specifications

Operating system	Windows 10 IoT Enterprise
Processor family	10th Generation Intel® Core™ i9 processor
Processor	Intel® Core™ i9-10900E (up to 4.7 GHz with Intel® Turbo Boost Technology, 20 MB L3 cache, 10 cores, 20 threads) ^[6,7]
Processor technology	Intel® vPro™ Technology
Chipset	Intel® Q470E
Memory	32 GB DDR4-2666 MHz RAM (2 x 16 GB)
Memory Slots	2 SODIMM
Internal Storage	1 TB PCIe® NVMe™ SSD
Internal drive bays	Two M.2
Graphics	Integrated
Graphics (integrated)	Intel® UHD Graphics 630
Display	60.5 cm (23.8") diagonal, FHD (1920 x 1080), touch, IPS, anti-glare, 625 nits, 72% NTSC
Display	23.8" diagonal, FHD (1920 x 1080), touch, IPS, anti-glare, 625 nits, 72% NTSC ^[13,15]
Audio	Integrated HD audio with Realtek ALC3247 codec with standards internal speakers and stereo headphone jack, 2W
Minimum dimensions (W x D x H)	39.76 x 2.64 x 24.1 cm (head landscape); 39.76 x 2.64 x 24.1 cm (head portrait); 49.48 x 2.94 x 29.26 cm (head landscape); 49.48 x 2.94 x 29.26 cm (head portrait); 60.50 x 2.94 x 33.99 cm (head landscape); 60.50 x 2.94 x 33.99 cm (head portrait); 15.2 x 1.0 x 15.2 cm (performance and pro stand) <i>(Stand only.)</i>
Minimum dimensions (W x D x H)	15.6 x 1 x 9.5 in (head Landscape); 15.6 x 1 x 9.5 in (head portrait); 19.5 x 1.2 x 11.5 in (head Landscape); 19.5 x 1.2 x 11.5 in (head Portrait); 23.8 x 1.2 x 13.4 in (head Landscape); 23.8 x 1.2 x 13.4 in (head Portrait); 0.6 x 0.4 x 0.6 in (performance and pro stand) <i>(Stand only.)</i>
Weight	.06 kg (performance and pro stand); 3.37 kg (15.6" display models); 5.70 kg (19.5" display models); 6.8 kg (23.8" display models)
Weight	0.1 lb (performance and pro stand); 7.4 lb (15.6" display models); 12.6 lb (19.5" display models); 15 lb (23.8" display models)
Ports	1 audio-out; 2 SuperSpeed USB Type-A 5Gbps signaling rate; 2 SuperSpeed USB Type-A 5Gbps signaling rate (HP Sleep and Charge); 1 RJ-45 USB NIC; 1 140W data port ^[21]
Expansion slots	1 M.2 2230 ^[6]
Ports	1 Security lock slot
Ports	1 SuperSpeed USB Type-A 5Gbps signaling rate
Wireless	Intel® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5.2 wireless card, non-vPro®

Power	280 W external Smart AC power adapter, up to 89% efficiency, active PFC (advance hub)
Management features	Intel® vPro® with AMT 11.0; TPM 2.0; HP System Software Manager; HP Image Assistant; HP Client Security Manager
Sustainable impact specifications	Ocean-bound plastic in speaker enclosure; 50% post-consumer recycled plastic; 25% ITE-derived closed loop plastic; Low Halogen
Security management	HP Sure Sense; HP Sure Click (Standard); HP Sure Admin; HP MIK (SCCM Integration); HP Image Assistant; HP BIOSphere with SureStart Gen6; HP Client Security Manager Gen7; HP Sure Recover Gen3; HP Sure Run Gen3 ^[9,12,20]
Software included	HP Credential Guard; HP Device Guard; HP Support Assistant; HP BIOSphere with Sure Start Generation 6.0 ^[9]
UPC number	198701567240

Additional specifications

Accessories	9YH50AA HP Engage One Pro FPR 2U551AA HP Engage One Pro MSR 9YH49AA HP Engage One Pro BCS 9YH48AA HP Engage One Pro 6.6 Display 1XD80AA HP Engage 10 Display 1XD81AA HP Engage 10t Display 10P56AA HP Engage 10 VESA Display 10P57AA HP Engage 10t VESA Display 3FH66AA HP Engage 10w Display 3FH67AA HP Engage 10tw Display 10P64AA HP Engage 14 Display 10P65AA HP Engage 14t Display 10P66AA HP Engage 14 VESA Display 10P68AA HP Engage 14t VESA Display 10P69AA HP Engage 16t Display 10P70AA HP Engage 16ts Display 10P72AA HP Engage 16t VESA Display 10P73AA HP Engage 16ts VESA Display 10P77AA HP Engage Clean Mount Arm Bracket 10P78AA HP Engage Stability Mount Arm Bracket HP Engage One Serial/USB Thermal Printer 1RL96AA (Black) 3GS19AA (White); HP Engage One 2D Barcode Scanner 1RL97AA (Black) 3GS20AA (White); HP Engage One Fingerprint Reader 1RL98AA (Black) 3GS21AA (White)
Barcode reader	Optional HP Engage One Pro integrated BCS
Bluetooth version	Bluetooth® 5.0
Color	Ebony black or ceramic white
Color gamut	72% NTSC
Datasheet photo 1	AHID/9413ee9c71d6bd2a3ecef9cd9c002bd3b9c24676
Datasheet photo 3	AHID/41e492ae57f7140c8da05bbeaf6c8ff1c5291ff8
Datasheet photo 5	AHID/84917d302467d663fe6b0cb45206fbef509755c4
Display brightness	625
Display brightness uom	nits
Display panel technology	IPS
Display resolution (pixels)	1920 x 1080
Display resolution standard	FHD
Display size (diagonal) uom	"
Display size (diagonal, imperial)	23.8
Display size (diagonal, metric)	60.5
Display size (diagonal, metric) uom	cm
Display surface treatment	Anti-glare
External I/O ports footnote number	[14]
External I/O ports footnote number	[18]
Fingerprint reader	Fingerprint reader (select models)
I/O Port location	Side
I/O Port location	Internal
I/O Port location	Display head

Magnetic stripe reader	Optional integrated magnetic stripe reader; Single-head, bi-directional, and encryption capable
Memory layout (slots & size)	2 x 16 GB
Memory module type	SODIMM
Memory size	32
Memory size uom	GB
Memory speed	2666
Memory speed uom	MHz
Memory type	DDR4
Number of memory slots	2
Operating humidity range	20 to 85% RH
Operating temperature range	10 to 40°C
Operating temperature range	50 to 104°F
Processor Brand	Intel®
Processor cache	20 MB L3
Processor core	10
Processor family	Core™ i9
Processor frequency technology	Intel® Turbo Boost Technology
Processor generation	10th Generation
Processor maximum frequency	4.7
Processor maximum frequency uom	GHz
Processor model	10900E
Processor threads	20
Product long name specifications	HP Engage One All-in-One System
Standard memory note	Transfer rates up to 2666 MT/s.
Storage capacity	1
Storage capacity uom 01	TB
Storage interface 01	PCIe®
Storage interface protocol 01	NVMe™
Storage type	SSD
Storage type 01	SSD
UNSPSC code	43211505
Wireless antenna	2x2
Wireless supplier	Intel®

[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 BIOSphere with Sure Start available only on business PCs with HP BIOS. HP BIOSphere Gen 6 requires Intel® 10th generation processors. HP BIOSphere Gen6 features may vary depending on the platform and configuration.

[12] HP Sure Run, Sure Recover & Sure Sense is supported on Win 10 Pro & Win 10 IoT Enterprise 2019 LTSC; but not on Win 10 IoT Enterprise 2016 LTSC.

[13] Actual brightness will be lower with touch screen.

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

[20] 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™.

[21] HP 140W port only compatible with the 140W cable included with the product. Cable required for the HP Engage One Pro to operate.

Accessories

Point of Sales System Options

★ : Recommended

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
HP Engage One Pro Bar Code Scanner	9YH49AA
HP Engage One Pro Magnetic Stripe Reader	2U551AA

POS Cash Drawer

HP Standard Duty Cash Drawer	QT457AA ★
HP Standard Duty Cash Drawer	QT457AT

POS Printer

Epson TM-88VI Serial Ethernet USB Printer only	2HV25AA ★
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 Terminal Accessories

Datalogic 1500i Whi Presentation Scanner	3F568AA
Datalogic 3450Vsi Presentation Scanner	7UZ38AA
Epson 12 FT PUSB Cable	7NX62AA

HP All-in-One Adjustable Height Stand Black	518U6AA
HP All-in-One Adjustable Height Stand White	518U7AA
HP Cable Pack for Dual HP Cash Drawer	QT538AA
HP Engage Express Bag Holder	6P2F7AA
HP Engage Express Countertop 1	6P2E2AA
HP Engage Express Countertop 2	6P2E3AA
HP Engage Express Countertop 3	6P2E4AA
HP Engage Express Countertop 4	6P2E5AA
HP Engage Express Countertop BCS Cradle	6P2F9AA
HP Engage Express Countertop Mount	7P9E2AA
HP Engage Express Pedestal 10	6P2F2AA
HP Engage Express Pedestal 11	6P2F3AA
HP Engage Express Pedestal 5	6P2E7AA
HP Engage Express Pedestal 6	6P2E8AA
HP Engage Express Pedestal 7	6P2E9AA
HP Engage Express Pedestal 8	6P2F0AA
HP Engage Express Pedestal 9	6P2F1AA
HP Engage Express Shelves	6P2G0AA
HP Engage Express Universal Payment Arm	7Y397AA
HP Engage Heavy Duty Cash Drawer RL	8QX99AA
HP Engage One Prime Cash Drawer Cable	5UU45AA
HP Engage One Pro AiO Advanced Fanless Hub Kit	9YH40AA
HP Engage One Pro AiO Column Hub	9YH41AA
HP Engage One Pro AiO VESA Hub	9YH42AA
HP Engage One Pro U-shape Hub Adapter	9YH43AA

POS Monitors and Accessories

Engage One Pro Flexible Pole Single Mount	2W7M4AA
HP Engage 10 Clean Mount Stand	10P77AA
HP Engage One Pro Undercounter Mount Kit	9YH51AA
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 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 2 x 20 Pole Display	5RD97AA	obsolete
HP Engage 2x20 Customer Facing Display	6K552AA	
HP Engage 2x20 Customer Facing Pole Display	6K553AA	
HP Engage 6.6 inch Display	9YH48AA	
HP Engage 6.6 inch Display with Payment	156P0AA	obsolete
HP Engage 6.6 inch Display without Payment	10P74AA	obsolete
HP Engage 6.6 inch Pole Display	10P79AA	
HP Engage 6.6 inch White Display	156N8AA	
HP Engage One 10.1-inch Display	1XD80AA	
HP Engage One 10.1-inch Touch Display	1XD81AA	
HP Engage One W 10.1-inch Display	3FH66AA	
HP Engage One W 10.1-inch Touch Display	3FH67AA	

POS Fingerprint Readers

HP Engage One Fingerprint Reader	1RL98AA	
HP Engage One Pro Fingerprint Reader	9YH50AA	

Accessories for PC

Components/Upgrades

★ : Recommended

Storage

1TB 2280 PCIe-4x4 NVMe Value M.2 Z2 Kit SSD	4M9Z3AA
512GB 2280 PCIe-4x4 NVMe Value M.2 Z2 Kit SSD	4M9Z2AA

Memory

HP 16GB DDR4-3200 SODIMM	13L75AA
HP 16GB DDR4-3200 SODIMM	13L75AT
HP 32GB DDR4-3200 SODIMM	13L73AA
HP 8GB DDR4-3200 SODIMM	13L77AA

Keyboards/Other Input Devices

Wired Combo

HP USB Keyboard and Mouse Healthcare Edition	1VD81AA
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Services

HP Care Pack Services

★ : Recommended

Personal Systems Commercial Care Pack Services

HP 1 year Priority Access Plus Service for PCs (1000+ seats)	U80M9E
HP 1 year Priority Access Service for PCs (250+ seats)	U80M5E
HP 2yr Priority Access PC 250+ seats SVC	U80LYE
HP 2yr PriorityAccessPlus PC 1K+ seats SVC	U80LZE
HP 3 year Priority Access Plus Service for PCs (1000+ seats)	U80MBE
HP 3 year Recover - Restore Onsite SW Supp	U80LQE
HP 3 year Recover Hard Disk Data SW Supp	U80LNE
HP 3 years Priority Access Service for PCs (250+ seats)	U80M6E
HP 4 year Priority Access Plus Service for PCs (1000+ seats)	U80MCE
HP 4 year Priority Access Service for PCs (250+ seats)	U80M1E
HP 5 year Priority Access Plus Service for PCs (1000+ seats)	U80MDE
HP 5 year Priority Access Service for PCs (250+ seats)	U80M2E

Personal Systems Hardware Support Onsite Service

HP 1y Post Warranty Next Business Day Response Onsite RPOS HardwareSupport	U8CD0PE
HP 1y Post Warranty Next Business Day Response Onsite RPOS Solution Support	UL597PE
HP 3y Next Business Day Onsite w/Defective Media Retention RPOS HardwareSupport	U8CD9E
HP 3y Next Business Day Response Onsite w/Accidental Damage ProtectionRPOS HW Supp	U8KT7E
HP 3y Next Business Day Response Onsite w/Defective Media Retention RPOS Sol Supp	UM997E
HP 4y Next Business Day Onsite w/Defective Media Retention RPOS HardwareSupport	U8CE0E
HP 4y Next Business Day Response Onsite RPOS Hardware Support	U1PW0E
HP 4y Next Business Day Response Onsite RPOS Solution Support	UL589E
HP 4y Next Business Day Response Onsite w/Defective Media Retention RPOS Sol Supp	UM998E
HP 5y Next Business Day Onsite w/Defective Media Retention RPOS HardwareSupport	U8CE1E
HP 5y Next Business Day Response Onsite RPOS Hardware Support	U1PW1E
HP 5y Next Business Day Response Onsite RPOS Solution Support	UL590E

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