HP Engage Flex Pro Retail System Small Form Factor (A58A8UA)

Overview

Do more in your store and beyond

Efficiently manage your retail business from the store floor to the back office with the HP Engage Flex Pro, our stable, secure, and highest-performing retail platform that delivers maximum flexibility for a range of deployments.

Build your best solution

Configure the perfect fit for your users and environment, whether it's point of sale, video surveillance, processing/controlling, digital signage or OEM with flexible connectivity, graphics, and networking options and a suite of retail peripherals.[2]

Secure, manageable, and reliable out of the box

Reduce the cost and complexity of managing your platforms and secure your critical assets with innovative, integrated, and proactive security and manageability features for your system and its data.

Poised to perform and expand with your business

Tackle every retail challenge with a powerful 8th Gen Intel® processor[3]. Adjust capacity as your needs change with endless storage options such as M.2 SSD or SATA HDD—up to five total drives per system.[2]

Features

Familiar, trusted operating system

Stick with an OS you know with your choice of Windows 11 Pro, Windows IoT or FreeDOS.

Integrated security and manageability tools

Get hardware-enforced self-healing protection from HP Sure Start Gen4, manage your system across the OS with HP Manageability Integration Kit, maintain critical OS processes with HP Sure Run, and restore your image over a network with HP Sure Recover. [5,6,7,8]

Designed for your daily demands

Minimize downtime with a design that goes the distance. It passes HP's Total Test Process and has a steel chassis and gold-plated connectors that are tested to withstand temperatures up to 40° C. Extend lifespan with an optional dust filter.[9,2]

Available as a service with HP DaaS

HP Device as a Service delivers the HP Engage Flex Pro as a complete solution of hardware, insightful analytics, and services for every phase of the device lifecycle—with one, easy, predictable price per device. [10]

Long live the platform

Deploy quickly with HP Configuration Services. Plan ahead with a five-year lifecycle that lets you roll out on your schedule. Get the reassurance of a three-year worldwide limited warranty, and extend protection with optional HP Care services.[2,11]

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[2] Sold separately or as configurable add-on features.

[3] 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.

[5] HP Sure Start Gen4 is available on the HP Engage Flex Pro equipped with 8th generation Intel® processors.

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

[7] HP Sure Run is available on the HP Engage Flex Pro equipped with 8th generation Intel® processors.

[8] HP Sure Recover is available on the HP Engage Flex Pro with 8th generation Intel® processors and requires an open, wired network connection. Not available on platforms with multiple internal storage drives or Intel® Optane™. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.

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

Specifications

Form factor	Small form factor
Operating system	FreeDOS 2.0
Processor family	Intel® Celeron® processor
Processor	Intel® Celeron® G4900 (3.1 GHz base frequency, 2 MB L3 cache, 2 cores)[6]
Chipset	Intel® Q370
Memory	16 GB DDR4-2666 MHz RAM (1 x 16 GB)
Memory Slots	4 DIMM
Internal Storage	256 GB PCIe® NVMe™ TLC M.2 SSD
Internal drive bays	Two 3.5"; Two M.2
External drive bays	One 5.25"
Graphics	Integrated
Graphics (integrated)	Intel® UHD Graphics 610
Minimum dimensions (W x D x H)	33.7 x 38 x 10 cm
Minimum dimensions (W x D x H)	13.27 x 14.96 x 3.94 in
Weight	6.44 kg *(Exact weight depends on configuration.)*
Weight	14.2 lb *(Exact weight depends on configuration.)*
Ports	1 headset connector; 1 RJ-45; 2 USB 2.0; 2 configurable video ports; 1 DisplayPort™ 2.0; 1 SuperSpeed USB Type-A 5Gbps signaling rate (charging); 2 SuperSpeed USB Type-A 5Gbps signaling rate; 1 PS/2 combo port *(Additional optional ports include up to 6 RS-232 (5/12V), up to 6 12V USB, 1 24V USB, 1 RJ-12 cash drawer.)*
Expansion slots	1 half-height PCIe x16 (x4); 2 full-height PCIe (x1); 1 half-height PCIe x16 (x16)[18]
Ports	2 SuperSpeed USB Type-A 5Gbps signaling rate
Power	250 W internal power adapter, up to 90% efficiency, active PFC[23]
Management features	HP BIOS Config Utility (download); HP Client Catalog (download); HP Driver Packs (download); HP System Software Manager (download); Update BIOS via Cloud or Network (BIOS feature); HP Management Integration Kit for Microsoft System Center Configuration Management Gen 2
Sustainable impact specifications	Low halogen

Security management	Power-on password (via BIOS); Setup password (via BIOS); Trusted Platform Module TPM 2.0 Embedded Security Chip; USB enable/disable (via BIOS); Serial enable/disable (via BIOS); DriveLock; HP BIOSphere; HP Password Manager; HP Power On Authentication; Intel® Identity Protection Technology (Intel® IPT); RAID configurations; Removable media write/boot control; SATA port disablement (via BIOS); Support for chassis padlocks and cable lock devices; HP Sure Start Gen 4; Solenoid lock and hood sensor; HP Sure Run; Parallel enable/disable (via BIOS); Front USB enable/disable (via BIOS); HP BIOSphere Gen4; HP Sure Recover; HP Sure Sense; Multi-factor Authentication; HP Sure Click; HP Secure Erase; HP Client Security Manager; HP Multi-Factor Authenticate; HP Sure Click (Standard); HP Sure Sense (Standard); HP Sure Recover (via network); HP Sure Admin; Device Guard Enablement; Self Encrypting Drives[15,16,17,18,19,20,21,22,26,27,28]
Software included	Buy Office; HP ePrint Driver; HP Recovery Manager; HP Support Assistant; Absolute Persistence module; HP Hotkey Support; HP Wireless Wakeup; HP ePrint Driver + JetAdvantage
UPC number	198415408785

Additional specifications

Additional information about HP in the countries	hp.com
Certifications and compliances	IEC 60601-1-2
Datasheet photo 1	Publication photos/Trinidad_Tobago_1.jpg
Datasheet photo 3	Publication photos/Trinidad_Tobago_3.jpg
Datasheet photo 4	Publication photos/Trinidad_Tobago_4.jpg
Datasheet photo 5	Publication photos/Trinidad_Tobago_5.jpg
Datasheet publication number	4AA7-3496
External I/O ports footnote number	[11]
I/O Port location	Rear
I/O Port location	Front
Legal tagline	HP recommends Windows 11 Pro for business
Memory layout (slots & size)	1 x 16 GB
Memory module type	DIMM
Memory size	16
Memory size uom	GB
Memory speed	2666
Memory speed uom	MHz
Memory type	DDR4
Number of memory slots	1
Operating humidity range	20 to 85% RH
Operating temperature range	0 to 40°C
Operating temperature range	50 to 104°F
Processor Brand	Intel®
Processor base frequency	3.1
Processor cache	2 MB L3
Processor core	2
Processor family	Celeron®
Processor frequency UOM	GHz
Processor model	G4900
Processor threads	2
Quickspec	http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c06102173

Standard memory note	Transfer rates up to 2666 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. Intel, Pentium, Intel Core, Celeron, Intel logo and the Intel Inside logo are trademarks of Intel Corporation in the U.S. and other countries.

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

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

[17] HP Password Manager Requires Internet Explorer or Chrome or FireFox. Some websites and applications may not be supported. User may need to enable or allow the add-on / extension in the internet browser.

[18] HP Sure Start Gen4 is available on the HP Engage Flex Pro equipped with 8th generation Intel® processors.

[19] Intel® Identity Protection Technology (Intel® IPT) Models configured with Intel® Core™ processors have the ability to utilize advanced security protection for online transactions. Intel® Identity Protection Technology (Intel® IPT), used in conjunction with participating web sites, provides double identity authentication by adding a hardware component in addition to the usual user name and password. Intel® Identity Protection Technology (Intel® IPT) is initialized through an HP Client Security module.

[20] Firmware TPM Is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT).

[21] RAID configuration Is optional and does require a second hard drive.

[22] HP Sure Run Is available on HP Engage Flex Pro products equipped with 8th generation Intel® or AMD processors.

[23] The TWR can support a single graphics card up to 75W. When configured with dual graphics cards support is limited to 35W for each.

[26] HP Sure Sense currently available as an HP Softpack. HP Sure Sense will also be included in the image starting February 17, 2020.

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

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

Accessories

Point of Sales System Options

★ : Recommended

POS Bar Code and Magnetic Stripe Readers

HP Engage Imaging Barcode Scanner II	**5YQ08AA ★**
Datalogic 4090 Wireless Charging Base	4P775AA
Datalogic 4190 Wireless Charging Base	4P776AA
Datalogic Gryphon GBT4500 2D Wireless Barcode Scanner	4P886AA
HP Engage 2D G2 Barcode Scanner	6Y2V4AA
HP Engage 2D G2 White Barcode Scanner	6Y2V5AA
HP Engage Imaging Barcode Scanner II	5YQ08AT
HP Engage One Prime Barcode Scanner	638L9AA
HP Engage One Prime Barcode Scanner	638L9AT

POS Printer

Epson TM-88VI Serial Ethernet USB Printer only	**2HV25AA ★**
Epson H6000V Hybrid POS Printer	4ZE21AA
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 Keyboard

HP POS USB Keyboard with Magnetic Stripe Reader	**FK218AA ★**
HP POS USB Keyboard	FK221AA
HP POS USB Keyboard	FK221AT
HP USB POS Keyboard with Magnetic Stripe Reader	FK218AT

POS Cash Drawer

HP Standard Duty Cash Drawer	**QT457AA ★**
HP Heavy Duty Cash Drawer	**FK182AA ★**
HD Cash Drawer Till 5B5C	31G54AA
HP Cash Drawer	54J44AA
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
Standard Duty Cash Drawer Till 4B8C	4Z4T1AA
Standard Duty Cash Drawer Till 5B5C	4Z4T0AA

POS Terminal Accessories

60W Printer AC Adapter	3A2P5AA
Datalogic 1500i Presentation Scanner	9BU50AA
Datalogic 1500i Whi Presentation Scanner	3F568AA
Datalogic 3450Vsi Presentation Scanner	7UZ38AA
Epson 12 FT PUSB Cable	7NX62AA
Epson 6FT PUSB Dark Gray Cable	1C5A0AA
HP 6 Foot PUSB Black Cable	5C2B8AA
HP 6 Foot USB Black Cable	5C2B7AA
HP Cable Pack for Dual HP Cash Drawer	QT538AA
HP Engage Flex Pro 12V PUSB Standard Card	5KM97AA
HP Engage Flex Pro 24V USB/Cash Drawer	4VW72AA
HP Engage Flex Pro PCI Riser	4VW77AA
HP Engage Flex Pro PCIe Riser	4VW78AA
HP Engage Flex Pro Serial Port (Female)	4VW71AA
HP Engage Flex Pro Serial Port (Male)	4VW70AA
HP Engage Flex Pro-C WallMount/SecSleeve	4VW76AA
HP Engage Heavy Duty Cash Drawer RL	8QX99AA
HP Engage One Prime Cash Drawer Cable	5UU45AA

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 15t XGA No Stand Monitor	67Q84AA

HP Engage 2 x 20 Pole Display	5RD97AA
HP Engage 2x20 Customer Facing Pole Display	6K553AA
HP Engage 6.6 inch Display with Payment	156P0AA
HP Engage 6.6 inch Display without Payment	10P74AA
HP Engage One 10.1-inch Display	1XD80AA
HP Engage One 10.1-inch Touch Display	1XD81AA
HP Engage One W 10.1-inch Display	3FH66A8
HP Engage One W 10.1-inch Display	3FH66AA
HP Engage One W 10.1-inch Touch Display	3FH67A8
HP Engage One W 10.1-inch Touch Display	3FH67AA
HP L7010t 10.1-inch Retail Touch Monitor	T6N30AA
HP L7014 14-inch Retail Monitor	T6N31AA
HP L7014t 14-inch Retail Touch Monitor	T6N32AA
HP L7016t 15.6-inch Retail Touch Monitor	V1X13AA

POS Monitors and Accessories

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

Batteries/Chargers/Adapters

Power Supplies

Epson PS-180 50W AC Adapter	2KH39AA

Chassis and Chassis Accessories

Brackets/Bezels/Panels

HP rp5800 Rear Port/Cable Control Cover	QP909AA

Accessories for PC

Keyboards/Other Input Devices

★ : Recommended

Wired Keyboards

HP 125 Wired Keyboard	266C9AA
HP 125 Wired Keyboard	266C9UT
HP Business Slim Smartcard Keyboard	Z9H48AA

Wired Combo

HP USB Keyboard and Mouse Healthcare Edition	1VD81AA

Wireless Keyboards

HP Wireless Premium Keyboard	Z9N41AA

Mice/Pens/Other Pointing Devices

Wired Mice

HP 125 Wired Mouse	265A9AA
HP 125 Wired Mouse	265A9UT

Components/Upgrades

Storage

HP 1TB 7200rpm SATA (NCQ/Smart IV) 6Gbp/s Hard Drive	QK555AA

Internal ports/Modules/Controllers

HP PCIe x1 Parallel Port Card	N1M40AA

Port Replicators/Dongles/Docking

Cables/Cable Adapters/Dongles

HP DisplayPort Cable Kit	VN567AA
HP DisplayPort To VGA Adapter	AS615AA
HP DisplayPort To VGA Adapter	F7W97AA
HP DisplayPort to DVI-D Adapter	FH973AA
HP DisplayPort to HDMI True 4K Adapter	2JA63AA
HP HDMI Standard Cable	T6F94AA

Security

Security Cables

HP Keyed Cable Lock 10 mm	T1A62AA
HP Keyed Cable Lock 10 mm	T1A62UT
HP Master Keyed Cable Lock 10mm	T1A63AA

Monitors

Business Monitors

★ : Recommended

E-Series

HP E24 G4 FHD Monitor	9VF99AA
HP E24i G4 WUXGA Monitor	9VJ40AA
HP E24mv G4 FHD Conferencing Monitor	169L0AA
HP E24u G4 FHD USB-C Monitor	189T0AA
HP E27q G4 QHD Monitor	9VG82AA
HP E27u G4 QHD USB-C Monitor	189T3AA

Z Displays

HP Z24f G3 FHD Display	3G828AA
HP Z24n G3 WUXGA Display	1C4Z5AA
HP Z24u G3 WUXGA USB-C Display	1C4Z6AA
HP Z27k G3 4K USB-C Display	1B9T0AA
HP Z27q G3 QHD Display	1C4Z7AA
HP Z27u G3 QHD Display	1B9X2AA
HP Z38c 37.5-inch Curved Display	Z4W65A8

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