HP Engage Flex Pro Retail System (5PA11UA)

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]

Poised to perform and expand with your business
Tackle every retail challenge with a powerful 8th Gen Intel® processor[3] and Intel® Optane™ memory.[4] Adjust capacity as your needs change with endless storage options like an Intel® Optane™ SSD, SATA or M.2—up to five total drives per system.[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.

Featuring

Familiar, trusted operating system
Stick with an OS you know with your choice of Windows 10 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]

Specifications

Form factor	Small form factor
Operating system	Windows 10 Pro (available through downgrade rights from Windows 11 Pro)
Processor family	8th Generation Intel® Core™ i5 processor
Processor	Intel® Core™ i5-8500 (3.0 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 9 MB L3 cache, 6 cores)[6,7]
Processor technology	Intel® vPro™ Technology
Chipset	Intel® Q370
Memory	8 GB DDR4-2666 MHz RAM (2 x 4 GB)
Memory Slots	4 DIMM
Internal Storage	128 GB SATA TLC SSD
Internal drive bays	Two 3.5"; Two M.2
External drive bays	One 5.25"
Graphics	Integrated
Graphics (integrated)	Intel® UHD Graphics 630
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.)*
Keyboard	HP USB wired keyboard
Pointing device	HP USB mouse
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]
Ecolabels	EPEAT® registered
Energy star certified	ENERGY STAR® certified
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	193424281060

Top Recommended Displays, Accessories and Services

POS Keyboard

Cherry G86-71401 POS Keyboard w TP	7MC50AA
HP POS USB Keyboard with Magnetic Stripe Reader	FK218AA
HP Engage Standard Retail Keyboard	7HZ85AA

POS Bar Code and Magnetic Stripe Readers

HP Engage Imaging Barcode Scanner II	5YQ08AA
HP Wireless Barcode Scanner	E6P34AA
HP Engage One 2D Barcode Scanner	1RL97AA

POS Printer

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

POS Display Accessories

HP L7014 14-inch Retail Monitor	T6N31A8
HP L7014 14-inch Retail Monitor	T6N31AA

POS Cash Drawer

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

Messaging Footnotes

[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.

[4] Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system and requires configuration with an optional Intel® Core™ i(5 or 7)+ processor.

[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.

[10] Please contact your HP representative or authorized HP reseller for details. Device support may vary by country. Features vary among Standard, Enhanced, and Premium HP Device as a Service plans. 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.

Technical Specifications Footnotes

[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.

[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.

Learn more at
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