



# HP Engage Flex Pro Retail System (5PA03UA)

## 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.

*[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.*

## Specifications

<b>Form factor</b>	Small form factor
<b>Operating system</b>	Windows 10 Pro (available through downgrade rights from Windows 11 Pro)
<b>Processor family</b>	8th Generation Intel® Core™ i3 processor
<b>Processor</b>	Intel® Core™ i3-8100 (3.6 GHz base frequency, 6 MB L3 cache, 4 cores) <sup>[6]</sup>
<b>Chipset</b>	Intel® Q370
<b>Memory</b>	8 GB DDR4-2666 MHz RAM (2 x 4 GB)
<b>Memory Slots</b>	4 DIMM
<b>Internal Storage</b>	128 GB SATA TLC SSD
<b>Internal drive bays</b>	Two 3.5"; Two M.2
<b>External drive bays</b>	One 5.25"
<b>Optical drive</b>	DVD-Writer
<b>Graphics</b>	Integrated
<b>Graphics (integrated)</b>	Intel® UHD Graphics 630
<b>Dimensions (W x D x H)</b>	33.7 x 38 x 10 cm
<b>Dimensions (W x D x H)</b>	13.27 x 14.96 x 3.94 in
<b>Weight</b>	6.44 kg <i>(Exact weight depends on configuration.)</i>
<b>Weight</b>	14.2 lb <i>(Exact weight depends on configuration.)</i>
<b>Keyboard</b>	HP USB wired keyboard
<b>Pointing device</b>	HP USB mouse
<b>Ports</b>	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 <i>(Additional optional ports include up to 6 RS-232 (5/12V), up to 6 12V USB, 1 24V USB, 1 RJ-12 cash drawer.)</i>
<b>Expansion slots</b>	1 half-height PCIe x16 (x4); 2 full-height PCIe (x1); 1 half-height PCIe x16 (x16) <sup>[18]</sup>
<b>Ports</b>	2 SuperSpeed USB Type-A 5Gbps signaling rate
<b>Power</b>	250 W internal power adapter, up to 90% efficiency, active PFC <sup>[23]</sup>
<b>Ecolabels</b>	EPEAT® registered
<b>Energy star certified</b>	ENERGY STAR® certified
<b>Management features</b>	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<sup>[15,16,17,18,19,20,21,22,26,27,28]</sup>

**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**

193424280872

## Additional specifications

<b>Additional information about HP in the countries</b>	hp.com
<b>Certifications and compliances</b>	IEC 60601-1-2
<b>Datasheet photo 1</b>	Publication photos/Trinidad_Tobago_1.jpg
<b>Datasheet photo 3</b>	Publication photos/Trinidad_Tobago_3.jpg
<b>Datasheet photo 4</b>	Publication photos/Trinidad_Tobago_4.jpg
<b>Datasheet photo 5</b>	Publication photos/Trinidad_Tobago_5.jpg
<b>ECC memory</b>	No
<b>External I/O ports footnote number</b>	[11]
<b>I/O Port location</b>	Front
<b>I/O Port location</b>	Rear
<b>Keyboard connectivity</b>	wired
<b>Keyboard interface</b>	USB
<b>Memory and storage</b>	128 GB SSD storage
<b>Memory layout (slots &amp; size)</b>	2 x 4 GB
<b>Memory module type</b>	DIMM
<b>Memory size</b>	8
<b>Memory size uom</b>	GB
<b>Memory speed</b>	2666
<b>Memory speed uom</b>	MHz
<b>Memory type</b>	DDR4
<b>Number of memory slots</b>	2
<b>Operating humidity range</b>	20 to 85% RH
<b>Operating temperature range</b>	50 to 104°F
<b>Operating temperature range</b>	0 to 40°C
<b>Processor Brand</b>	Intel®
<b>Processor base frequency</b>	3.6
<b>Processor cache</b>	6 MB L3
<b>Processor core</b>	4
<b>Processor family</b>	Core™ i3
<b>Processor frequency UOM</b>	GHz
<b>Processor generation</b>	8th Generation
<b>Processor model</b>	8100

<b>Processor threads</b>	4
<b>Quickspec</b>	<a href="http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c06102173">http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c06102173</a>
<b>Standard memory note</b>	Transfer rates up to 2666 MT/s.
<b>Storage capacity</b>	128
<b>Storage capacity uom 01</b>	GB
<b>Storage interface 01</b>	SATA
<b>Storage memory technology 01</b>	TLC
<b>Storage type</b>	SSD
<b>Storage type 01</b>	SSD
<b>UNSPSC code</b>	43211612

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*[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.*

*[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.*

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## 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	obsolete
Epson TM-T20III 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	
HP Engage PUSB Thermal Printer	299V0AA	
HP Engage Serial Ethernet USB Thermal Printer	299U7AA	
HP Value Thermal Receipt Printer	4AK33AA	

#### POS Display Accessories

HP L7014 14-inch Retail Monitor	T6N31A8 ★
HP L7014 14-inch Retail Monitor	T6N31AA ★
HP Engage 10 HD No Stand + VESA Mount Monitor	3F1W8AA
HP Engage 10t HD No Stand + VESA Mount Monitor	3F1W9A7
HP Engage 10t HD No Stand + VESA Mount Monitor	3F1W9AA
HP Engage 15t XGA No Stand Monitor	67Q84AA

HP Engage 2x20 Customer Facing Pole Display	6K553AA
HP Engage One 10.1-inch Display	1XD80A7
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 L7010t 10.1-inch Retail Touch Monitor	T6N30A8
HP L7010t 10.1-inch Retail Touch Monitor	T6N30AA
HP L7014t 14-inch Retail Touch Monitor	T6N32A8
HP L7014t 14-inch Retail Touch Monitor	T6N32AA
HP L7016t 15.6-inch Retail Touch Monitor	V1X13A8
HP L7016t 15.6-inch Retail Touch Monitor	V1X13AA

## POS Keyboard

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

## POS Cash Drawer

HP Standard Duty Cash Drawer	<b>QT457AA ★</b>
HP Heavy Duty Cash Drawer	<b>FK182AA ★</b>
HD Cash Drawer Till 5B5C	31G54AA
HP Engage One Prime Cash Drawer	638M5AA
HP Standard Duty Cash Drawer	QT457AT
HP Standard Duty Till with Lockable Lid	QT458AA
Heavy Duty Till 4B8C Cash Drawer Till	54J44AA
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 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
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## Chassis and Chassis Accessories

### Brackets/Bezels/Panels

HP rp5800 Rear Port/Cable Control Cover	QP909AA
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## Accessories for PC

### Mice/Pens/Other Pointing Devices

★ : Recommended

#### Wired Mice

HP 125 Wired Mouse	265A9AT
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### Components/Upgrades

#### Storage

HP 1TB 7200rpm SATA (NCQ/Smart IV) 6Gbp/s Hard Drive	QK555AA
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#### Internal ports/Modules/Controllers

HP PCIe x1 Parallel Port Card	N1M40AA
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### Keyboards/Other Input Devices

#### Wired Keyboards

HP Business Slim Smartcard Keyboard	Z9H48AA
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HP Business Slim Smartcard Keyboard	Z9H48AT
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### Port Replicators/Dongles/Docking

#### Cables/Cable Adapters/Dongles

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

#### Security Cables

HP Keyed Cable Lock 10 mm	T1A62AA
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HP Master Keyed Cable Lock 10mm	T1A63AA
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# Monitors

## Business Monitors

★ : Recommended

### E-Series

HP E24i G4 WUXGA Monitor	9VJ40AA
HP E24mv G4 FHD Conferencing Monitor	169L0AA

### P-Series

HP P24h G4 FHD Monitor	7VH44AA	obsolete
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