



HP Engage Flex Mini Retail System (54L59UT)

Overview

An operations powerhouse that fits anywhere



Drive every facet of your business—from back-office operations to digital customer engagements, to point-of-sale—with the HP Engage Flex Mini. It packs big performance into an incredibly compact device and provides near endless configuration options, so you get a system tailored for your needs.

Petite yet powerful

This mighty powerhouse delivers across your business without taking up valuable space—featuring an Intel® Core™ processor[2] and ample memory and storage for fast, seamless operations.

Industry leading security and reliability

Business interruptions are not an option. That's why the HP Engage Flex Mini was designed to pass rigorous military standard testing[5] and has security features built-in—protecting from the BIOS to the browser, above and below the OS.

Endlessly configurable

Design a system for your unique business operations with abundant options across storage, memory, and processor. Further customize with two configurable I/O ports to attach accessories and displays, and a choice of Windows 10 Pro or Windows 10 IoT.[4]

Accelerate your edge solutions

Get the power you need to run sensor-based solutions including inventory management and more. Choose from the latest graphics and Intel® processor options.

[2] Optional, configurable feature that must be configured at purchase.

[4] Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.

[5] MIL-STD-810G 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.

Specifications

Form factor	Mini
Operating system	Windows 10 IoT Enterprise
Processor family	10th Generation Intel® Core™ i3 processor
Processor	Intel® Core™ i3-10100T (3.0 GHz base frequency, up to 3.8 GHz with Intel® Turbo Boost Technology, 6 MB L3 cache, 4 cores, 8 threads) ^[6,7]
Chipset	Intel® Q470
Memory	8 GB DDR4-2666 MHz RAM (1 x 8 GB)
Memory Slots	2 SODIMM
Internal Storage	256 GB PCIe® NVMe™ M.2 SSD
Hard drive (2nd)	256 GB PCIe® NVMe™ M.2 SSD
Internal drive bays	One 2.5"
Graphics	Integrated
Graphics (integrated)	Intel® UHD Graphics 630
Audio	Realtek ALC3205 codec, internal speaker, combo microphone/headphone jack
Minimum dimensions (W x D x H)	17.7 x 17.5 x 3.4 cm
Minimum dimensions (W x D x H)	6.97 x 6.89 x 1.34 in
Weight	1.25 kg <i>(Exact weight depends on configuration.)</i>
Weight	2.75 lb <i>(Exact weight depends on configuration.)</i>
Keyboard	HP USB Premium Keyboard
Ports	1 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate (charging); 1 SuperSpeed USB Type-C® 10Gbps signaling rate; 1 SuperSpeed USB Type-A 10Gbps signaling rate
Expansion slots	1 M.2 2230; 2 M.2 2280 <i>(1 M.2 slot for WLAN and 2 M.2 2280 slots for storage.)</i>
Ports	1 RJ-45; 2 SuperSpeed USB Type-A 5Gbps signaling rate; 2 DisplayPort™ 1.4; 2 SuperSpeed USB Type-A 10Gbps signaling rate
Ports	1 HDMI
Package dimensions (W x D x H)	49.8 x 23.5 x 13.2 cm
Package weight	3.40 kg
Power	65 W external power adapter, up to 89% efficiency
Management features	HP BIOS Config Utility (download); HP Client Catalog (download); HP Driver Packs (download); HP System Software Manager (download) ^[10,11,12]
Sustainable impact specifications	Low Halogen

Security management

Setup password (via BIOS); Trusted Platform Module TPM 2.0 Embedded Security Chip; DriveLock; HP Power On Authentication; SATA port disablement (via BIOS); Support for chassis padlocks and cable lock devices; HP Sure Sense; HP Sure Click; HP Secure Erase; HP Sure Recover Gen3; HP Sure Run Gen3; HP Client Security Manager Gen6; HP BIOSphere Gen6; HP Sure Start Gen6; HP DriveLock and Automatic DriveLock; HP Cloud Recovery; HP Management Integration Kit for Microsoft System Center Configuration Management Gen 4; HP Image Assistant Gen5^[13,14,15,16,17,18,19,20,21]

Software included

HP Support Assistant; HP Jumpstart; HP Noise Cancellation Software; HP Desktop Support Utilities; Buy Office (sold separately)^[9]

UPC number

196337054745

Additional specifications

ECC memory	non-ECC
I/O Port location	Rear
I/O Port location	Front
Keyboard connectivity	wired
Keyboard interface	USB
Memory layout (slots & size)	1 x 8 GB
Memory module type	SODIMM
Memory size	8
Memory size uom	GB
Memory speed	2666
Memory speed uom	MHz
Memory type	DDR4
Number of memory slots	1
Operating humidity range	10 to 90% RH
Operating temperature range	50 to 95°F
Operating temperature range	10 to 35°C
Package dimensions (W x D x H)	19.61 x 9.25 x 5.20 in
Package weight	7.40 lb
Processor Brand	Intel®
Processor cache	6 MB L3
Processor core	4
Processor family	Core™ i3
Processor frequency technology	Intel® Turbo Boost Technology
Processor generation	10th Generation
Processor maximum frequency	3.8
Processor maximum frequency uom	GHz
Processor model	10100T
Processor threads	8
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, 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 Support Assistant: Requires Windows and Internet access.

[10] HP Driver Packs: Not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>.

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

[12] HP Cloud Recovery is available for HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, wired network connection. Note: You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Detail please refer to: <https://support.hp.com/us-en/document/c05115630>.

[13] HP BIOSphere Gen6 is available on select HP Pro and Elite PCs. Features may vary depending on the platform and configurations.

[14] Secure Erase 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™.

[15] HP Sure Click requires Windows 10 Pro or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.

[16] HP Client Security Manager Gen6 requires Windows and is available on the select HP Elite and Pro PCs.

[17] HP Sure Start Gen6 is available on select HP PCs.

[18] HP Sure Recover Gen3 is available on select HP PCs and requires an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.

[19] HP Sure Run Gen3 is available on select Windows 10 based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors.

[20] HP Sure Sense requires Windows 10.

[21] HP Storage Drivelock does not work with Self Encrypting or Optane™ based storage.

Accessories

Point of Sales System Options

★ : Recommended

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 Heavy Duty Cash Drawer RL	8QX99AA
HP Engage One Prime Cash Drawer Cable	5UU45AA
HP Engage One Pro AiO Advanced Fanless Hub Kit	9YH40AA

POS Bar Code and Magnetic Stripe Readers

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

POS Printer

Epson H6000V Hybrid POS Printer	4ZE21AA
Epson TM-88VI Serial Ethernet USB Printer only	2HV25AA
Epson TM-T88VII PUSB Thermal Printer	8GOG7AA
Epson TM-T88VII Serial Ethernet USB Thermal Printer	8GOG6AA
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 Cash Drawer

HD Cash Drawer Till 5B5C	31G54AA
HP Cash Drawer	54J44AA
HP Engage One Prime Cash Drawer	638M5AA
HP Heavy Duty Cash Drawer	FK182AA
HP Standard Duty Cash Drawer	QT457AA
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 Display Accessories

HP Engage 10 HD No Stand + VESA Mount Monitor	3F1W8A7
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 16t FHD MSR Monitor	2D9Z4AA
HP Engage 16t FHD Monitor	2D9X0AA
HP Engage 2 x 20 Pole Display	5RD97AA
HP Engage 6.6 inch Display	9YH48AA
HP Engage 6.6 inch Pole Display	10P79AA
HP Engage 6.6 inch White Display	156N8AA
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	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

POS Keyboard

HP POS USB Keyboard

FK221AA

HP POS USB Keyboard

FK221AT

HP POS USB Keyboard with Magnetic Stripe Reader

FK218AA

HP POS USB Keyboard with Magnetic Stripe Reader

FK218AT

Batteries/Chargers/Adapters

Power Supplies

Epson PS-180 50W AC Adapter

2KH39AA

Accessories for PC

Keyboards/Other Input Devices

★ : Recommended

Wired Keyboards

HP 125 USB WD KBD (Bulk 12)	266C9A6
HP 125 Wired Keyboard	266C9AA

Wired Combo

HP 225 Wired Mouse and Keyboard Combo	286J4AA
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Mice/Pens/Other Pointing Devices

Wired Mice

HP 125 Wired Mouse	265A9AA
HP 125 Wired Mouse	265A9AT
HP 125 Wired Mouse	265A9UT
HP 125 Wired Mouse (Bulk120)	265A9A6
HP 128 LSR WRD Mouse (Bulk120)	265D9A6
HP 128 Laser Wired Mouse	265D9AA

Security

Security Cables

HP Combination Lock	T0Y15AA
HP Essential Combination Lock	T0Y16AA
HP Keyed Cable Lock 10 mm	T1A62AA
HP Sure Key Cable Lock	6UW42AA

Port Replicators/Dongles/Docking

Cables/Cable Adapters/Dongles

HP DisplayPort To VGA Adapter	F7W97AA
HP USB-C to DP Adapter	N9K78AA
HP USB-C to VGA Adapter	N9K76AA
HP USB-C to VGA Display Adapter	P7Z54AA

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 E27q G4 QHD Monitor	9VG82AA

P-Series

HP P24h G4 FHD Monitor	7VH44AA
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Z Displays

HP Z24f G3 FHD Display	3G828AA
HP Z24n G3 WUXGA Display	1C4Z5AA
HP Z27q G3 QHD Display	1C4Z7AA

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