



HP Engage Edge

Accelerate your edge solutions in Retail and Hospitality with HP's first retail product powered by EdgeX Foundry™ from LF Edge, hosted by The Linux® Foundation.

Enable use cases such as:



Data ingestion software ready for a variety of sensors

Optimize operations with edge compute

HP Engage Edge is an on-premise edge compute device designed to help independent software vendors (ISVs) as well as solution providers accelerate their on-premise, sensor-based automation solutions. These solutions allow businesses to gather and process onsite, real-time data from an array of endpoints in order to better manage and monitor business metrics like inventory management, promotion effectiveness, loss prevention and customer engagement.

Purpose-built retail ready hardware

HP's world-class hardware is ready for retail and hospitality environments, undergoing 120,000 hours of the HP Total Test Process to ensure performance, long lifecycle and durability. This compact device saves space yet does not compromise on performance with 8th generation Intel® Core™ processors.¹ Power a wide range of use cases with extensive on-board ports and connectivity options for a variety of peripherals.

Preinstalled with data ingestion software

With HP Engage Edge, ISVs do not need to worry about custom integrations with the onsite sensors and peripherals. The product ships with a pre-installed framework that covers protocols including Bluetooth®, Zigbee, Rest API, and MQTT which covers a wide choice of sensors and peripherals.² ISVs can focus on their core competencies of analytics and insights.

Industry-backed, open & extensible framework

Our highly flexible open source software framework facilitates interoperability between heterogeneous devices and applications at the IoT edge. This industry-backed framework is hosted by Linux Foundation's EdgeX Foundry project and is regularly updated for new types of sensors. This helps ISVs with a seamless data ingestion, normalization and analysis to create actionable insights & applications. This also reduces integration risks and costs and helps them build scalable solutions.

Powered by HP ThinPro OS

The product is powered by HP ThinPro OS which is built on top of Linux® OS. It is a low footprint, secure and low latency operating system that is updated by HP throughout the year. It comes with Skype for Business RTME & Cisco JVDI, integrated web browser and SSO solutions including Imprivata.

HP Developers Portal

Check out HP's developer community to ask questions, swap code and let everyone know about your latest edge computing masterpiece.

To request access, visit:

<https://developers.hp.com/retail-edge-enrollment>

Key Features:

- Powered by the 8th Gen Intel® Core™ i7-8700T processor
- EdgeX Foundry open framework from The Linux® Foundation LF Edge
- Extensive IoT connectivity options to enable a wide range of use cases
- Secured by HP ThinPro OS optimized for a purpose-built implementation
- Intel® certified RFP-Ready Kit, designed for extensive IoT use cases
- Reassurance of a worldwide limited warranty and extended protection with optional, commercial Service Level Agreement³
- Leverages an ecosystem of microservices to deliver interoperability across a wide range of use cases
- Wide choice of sensory protocols including BLE, Zigbee, MQTT, REST/HTTP and more
- Supports integration with common public cloud endpoints

HP Engage Edge Specifications Table



Available Operating System	HP ThinPro OS
Data Ingestion Software	EdgeX framework from LF Edge, hosted by The Linux® Foundation
Available Processors ^{8,9}	Intel® Core™ i7 8700T at 2.4GHz. Up to 4.0 GHz with Intel® Turbo Boost technology.
Chipset	Intel® Q370
Memory	16 GB DDR4-2666 SDRAM ² (Transfer rates up to 2666 MT/s.)
Memory Slots	2 SODIMM
Available Graphics	Intel® UHD Graphics 630
Audio	Conexant CX20632 codec, universal audio jack, headset and headphone front ports (3.5 mm), multi-streaming capable
Communications	Intel® I219-LM GbE; 802.11ac Wi-Fi 5 and Bluetooth ^{®3}
Storage	512 GB SSD ¹
Ports and Connectors	1 headphone; 1 headset connector; 1 USB 3.1 Gen 1 ⁴ ; 1 USB 3.1 Gen 2; 1 USB 3.1 Type-C [®] Gen 2 ⁷ ; Serial; 2 DisplayPort™
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); Hood sensor; Serial enable/disable (via BIOS); Removable media write/boot control; SATA port disablement (via BIOS); Support for chassis padlocks and cable lock devices; Pre-boot Authentication
Power	65 W external power adapter, up to 89% efficiency, active PFC
Dimensions (W x D x H)	17.7 x 17.5 x 3.4 cm
Weight	1.25 kg
Environmental	Low halogen ⁶
Energy Efficiency Compliance	ENERGY STAR [®] certified and EPEAT [®] registered ⁵
Warranty	3-year limited onsite warranty

HP Engage Edge System

Messaging Footnotes

¹ 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.

² Sensors and peripherals sold separately.

³ Service Level Agreement sold separately. 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

¹ For hard drives and solid-state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less.

² All memory slots are customer accessible / upgradeable.

³ Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 5 (802.11 ac) is backwards compatible with prior 802.11 specs.

⁴ USB 3.1 Gen 1 (5 Gbit/s signaling rate): allows for wake from S4/S5 with keyboard/mouse when connected and enabled in BIOS.

⁵ EPEAT® registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country. See HP's 3rd party option store for solar energy accessory at www.hp.com/go/options.

⁶ External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen

⁷ (1) USB 3.1 Type-C® Gen 2: 10 Gbit/s signaling rate; (1) USB 3.1 Gen 2: 10 Gbit/s signaling rate; (1) USB 3.1 Gen 1: charging, 5 Gbit/s signaling rate

⁸ 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.

⁹ Intel® Turbo Boost technology requires a PC with a processor with Intel Turbo Boost capability. Intel Turbo Boost performance varies depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for more information.

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