



## Solution Brief

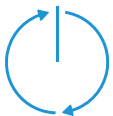
# HP Engage for OEM Healthcare and Life Sciences

Powerful, reliable, long lifecycle compute devices that meet the needs of healthcare equipment manufacturers and their customers.

Whether enabling equipment that is used in clinical care environments or powering complex lab analytical solutions, Healthcare Solution Providers require computing technology that is extremely reliable, powerful, and secure.

By partnering with a leading global technology company, healthcare OEMs benefit from the latest in computing technology powering their solutions and be confident that the devices they are investing in can be supplied and supported around the world.

HP Engage long lifecycle products provide the stability, safety, and security you need today. Additionally, they offer the flexibility and long life performance designed to help support your future solutions needs.



Leverage long life solutions

Up to a 10-year product lifecycle<sup>1</sup> helps ensure platform consistency, simplifying supportability, and reducing the certification costs. It also helps in bringing down the complexity required to operate in healthcare environments.







Help keep data and devices secure

Help protect sensitive patient medical and device data from malware, ransomware and viruses. HP Engage solutions feature hardware-enforced, multi-layered security approach including BIOS-level protection, multi-factor authentication, and device lockdown options.<sup>2</sup>



Power modern healthcare solutions with flexibility

HP Engage devices are highly configurable and capable of meeting diverse healthcare solution computing requirements and customer use cases. The portfolio offers a choice of device types, including all-in-one, modular and mobile, a range of operating systems, as well as powerful processors and expandable connectivity.

Challenges	How HP Engage devices can help		
Component stability	 Long Lifecycle <sup>1</sup>	 Performance	 Hardened Design
Data security and user safety	 Multi-Layered Security <sup>2</sup>	 EMC Compliant <sup>3</sup>	 Disinfectable <sup>4</sup>
Product adaptability	 Form Factors	 Configurable	 Modern Design
Compliance complexity	 Certification Process	 Global Availability	 Sustainability
Increasing costs	 HP Total Testing <sup>5</sup>	 Configurable	 Low TCO

## Use Cases

HP Engage devices for OEM manufacturers have many applications within the healthcare sector, where technology is relied upon by medical staff and patients.



From medical lasers to surgical robots, the medical devices industry needs high-performance computer technology to power the most demanding applications. HP Engage Flex series delivers features and durability adapted to address this need, as well as flexibility in configuration and size.



Whether within microbiology, biochemistry, or pharmacology, the equipment requires high-performance and long lifecycle solutions. The Engage Flex products provide components stability for up to 10 years and high flexibility for design and configuration.



Healthcare providers are innovating to facilitate the patients' journey. Self check-in improves the process with paperless solutions. With its disinfectable touchscreen, the all-in-one HP Engage One series brings the required reliability to the hygiene process, as well as a choice of different screen sizes.



Pharmacy workflows include medication dispensing, packaging, labeling, storage, and retrieval of medications. HP Engage solutions are available in a wide range of form factors, display sizes, and configurations to accommodate the manufacturers' needs in powering and managing solutions.

## HP Engage for OEM Healthcare

R&D decision-makers in the healthcare and life sciences industry are up against dated technology, intricate compliance standards, and ever-evolving security threats. The HP Engage portfolio supports each stage of patient care pathways and organizational operations through innovative compute solutions for OEMs.

### Long Lifecycle

To increase consistency and reduce operating validation and service costs, HP Engage products carry up to a 10-year manufacturing and service lifecycle<sup>1</sup>. These products also offer OS versions with stable feature sets and extended lifecycles (i.e., Windows LTSC and LTSB).

### High Security

Safeguard sensitive data and avoid costly breaches with HP's proprietary BIOS and a set of tools that provide layers of protection below, in and above the OS to proactively prevent threats and quickly recover in the event of a breach.

### Disinfectable and Meets EMC Standards

HP Engage devices can be disinfected up to 10,000 times with medical-grade wipes<sup>4</sup> and are certified to meet EN/IEC 60601-1-2 standards<sup>3</sup> to prevent electromagnetic interference with other devices.

### Durable and Reliable

Fast-paced, 24/7 environments call for durable construction and high-quality components. HP Engage products undergo over 100,000 hours of testing through the HP Total Test Process<sup>5</sup> and include a 3-year, next-business-day on-site warranty.<sup>6</sup>

### The Power You Need

Future-proof your investment with powerful computing options<sup>7</sup>, including modern processors and components. These are capable of working with a variety of software and devices to support a large range of use cases in Healthcare and Life Sciences.

### Flexible Sizes, Placement, and Connectivity

Technology requirements are not one-size-fits-all and different uses drive different needs for the form factor, connectivity, and compatibility. HP Engage devices offer multiple configurations with a wide range of connectivity options for peripherals and accessories, as well as a variety of placement and mounting options.<sup>7</sup>

### All-in-One solutions



#### HP Engage One Pro

HP Engage One Pro all-in-one combines computing and touchscreen in a slim but rugged device. Its stylish design is offered in three screen sizes and can be mounted to walls, poles, carts, or a counter.<sup>7</sup>

### Mobile solutions



#### HP Engage Go 10

HP Engage Go 10 is a durable tablet that's highly secure, ideally sized and integrates key accessories.<sup>7</sup> The slim tablet can be securely docked to an optional base and undocked by authorized staff only.

### Modular solutions



#### HP Engage Flex Pro and Flex Mini

HP Engage modular devices offer maximum performance and reliability and are available in compact sizes that can be hidden from view. A wide range of connectivity<sup>7</sup> enables the attachment of peripherals, devices, and displays.





### Peripherals available

- Printers – Integrated or Standalone
- Fingerprint Reader

- Barcode Scanner
- Keyboard
- Magnetic Stripe Reader (MSR)

- Touch and non-touch monitors and patient-facing displays

SYSTEM SPECIFICATIONS

	 <p>HP ENGAGE ONE PRO Long Lifecycle All-in-One Colors: Black and White</p>	 <p>HP ENGAGE GO 10" Long Lifecycle Mobile Tablet Colors: Black and White</p>	 <p>HP ENGAGE FLEX PRO\PRO-C Long Lifecycle, Highly Configurable Computer</p>	 <p>HP ENGAGE FLEX MINI Compact Industrial Computer</p>
PROCESSORS	Intel® 10th Generation Celeron® G5900E 2C 65W Core™ i3-10100E 4C 65W Core™ i5-10500E 6C 65W Core™ i7-10700E 8C 65W Core™ i9-10900E 10C 65W Pentium™ G6400E 2C 65W	Intel® 11th Generation Intel® Core™ i3-1110G4 Intel® Core™ i5-1140G7	Intel® 8th Generation Celeron® (35W & 65W), Pentium® Core™ i3 (35W & 65W) Core™ i5 (35W & 65W) Core™ i7	Intel® 10th Generation Celeron®, Pentium® Core™ i3 Core™ i5 Core™ i7 Core™ i9
RAM	DDR4-2666 SDRAM 2 SODIMMS up to 64GB	Up to 16GB LPDDR4X-4266 MHz	DDR4-2666 SDRAM 4 DIMMS up to 64GB	DDR4-2666 SDRAM, DDR4-3200 SDRAM 2 SODIMMS up to 64GB
CONNECTIVITY	Advanced hub includes: •(2) Powered USB 12V •(1) Powered USB 24V •(2) Powered Serial •(4) USB SuperSpeed ports •RJ-45 Network •140W powered port •27W Type-C port with DisplayPort™ Alt mode •Cash drawer jack •Security cable slot	Advanced hub (available on optional HP Engage Go Dock) includes: •(2) Powered USB 12V •(1) Powered USB 24V •(2) Powered Serial •(4) USB 3.0 •USB Type-C® •RJ-45 Network •Security cable slot •MicroSD Card Reader •Headset Jack •USB Type-C® Power Port •Cash drawer jack	•6x RS-232 (0V/5V/12V) •(1) 24V USB •Up to 6x 12V USB •WiFi 802.11ac •5x USB 3.1 Gen1 Type-A •2x USB 2.0 •Audio out/in •Optional Cash Drawer RJ-12 •DisplayPort™ •RJ-45 •Optical Drive (n/a with Pro-C) •NVIDIA® P400 Graphics Card •Additional expansion port	•1x USB 3.1 Gen 2 Type-C® •3x USB 3.1 Gen 2 Type-A •3x USB 3.1 Gen 1 Type A •2x DisplayPort™ •RJ-45 •Audio out/in •Flexport 1: Choice of: USB-C with power delivery up to 100W and w/ DisplayPort™ Alt Mode, DisplayPort™, HDMI 2.0a, VGA, RS-232 Serial, Intel® I225-LM 2.5 Gigabit Network Connection LOM (non-vPro®) •Flexport 2: Choice of: 2x Type-A USB or 1 Serial
OPERATING SYSTEM	•Windows 10 Professional 64-bit •Windows 10 IoT Enterprise 2019 LTSB 64-bit •Windows 10 IoT Enterprise 2016 LTSB 64-bit •FreeDOS 3.0 •Android 11 (available August-21) •SUSE Linux® 15 SP2 (certification)	•Windows 10 Professional (64-bit) •Windows 10 IoT Enterprise 2019 LTSC 64-bit •FreeDOS •SUSE Linux® Enterprise Desktop 12 (certification)	•Windows 10 Professional •Windows 10 IoT Enterprise LTSB 2016 for Retail •Windows 10 IoT Enterprise LTSC 2019 for Retail •FreeDOS 3.0 •SUSE Linux® 12 SP3 (certification)	•Windows 10 Professional •Windows 10 IoT Enterprise LTSC 2019 for Retail •FreeDOS 3.0
LIFE CYCLE	10-year lifecycle •Five years of manufacturing lifecycle •Up to five years of support	10-year lifecycle •Five years of manufacturing lifecycle •Up to five years of support	10-year lifecycle •Five years of manufacturing lifecycle •Up to five years of support	Eight-year lifecycle •Three years of manufacturing lifecycle •Up to five years of support
SCREEN SIZE / DIMENSIONS	•15.6" screen - 15.6 x 1 x 9.5 in; 39.76 x 2.64 x 24.1 cm •19.5" screen - 19.5 x 1.2 x 11.5 in; 49.48 x 2.94 x 29.26 cm •23.8" screen - 23.8 x 1.2 x 13.4 in; 60.5 x 2.94 x 33.99 cm	•9.43 x 6.92 x 0.4 in (flat option); 9.43 x 6.92 x 0.88 in (bump option); 23.95 x 17.6 x 1 cm (flat option); 23.95 x 17.6 x 2.24 cm (bump option) •10" diagonal display	HP Engage Flex Pro •13.27 x 14.96 x 3.94 in; 33.7 x 38 x 10 cm HP Engage Flex Pro C •11.81 x 11.89 x 3.94 in; 30 x 30.2 x 10 cm	•6.97 x 6.89 x 1.34 in; 17.7 x 17.5 x 3.4 cm
IP RATING	IP44	IP54 <sup>9</sup>	None	None
CERTIFICATIONS & COMPLIANCE	•IEC 60601-1-2 4 <sup>th</sup> edition •Energy Star® certified (select configurations) •EU Compliant •RoHS2 Compliant •EPEAT® <sup>9</sup> •Undergoes MIL-STD testing <sup>10</sup>	•IEC 60601-1-2 •MIL-STD 810H •CISPR 32 (EN55032) •CISPR 35 (EN55035) •Energy Star® •EPEAT® Gold •RoHS2 Compliant	•IEC 60601-1-2 4 <sup>th</sup> edition •Energy Star® •Undergoes MIL-STD testing <sup>10</sup> •0-40C Temperature Range •RoHS2 Compliant	•IEC 60601-1-2:2015 •TCO Certified 8.0 •Energy Star® •RoHS2 Compliant •EPEAT® certified where applicable

1. 10-year product lifecycle available on HP Engage One Pro, HP Engage Flex Pro, HP Engage Flex Pro-C, HP RP9  
 2. HP multi-factor authentication options and physical security sold separately.  
 3. HP Engage Go: EMC Compliant- Certified for IEC60601-1-2, CISPR 32 (EN55032) and CISPR 35 (EN55035). HP Engage One: EN 60601-1-2:2015 Edition 4. HP Engage Flex Pro: EN 60601-1-2:2015 Edition 4. HP Engage One Pro: EN 60601-1-2:2015 Edition 4.  
 4. Tested up to 10,000 wipes with select germicidal towelettes over a 3-year period. See wipe manufacturer's instructions for disinfecting and the HP cleaning guide for HP tested wipe solutions at How to Sanitize Your HP Device Whitepaper. <https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-7610ENW>  
 5. HP Total Test Process is not a guarantee of future performance under these test conditions. Accidental Damage or damage under these test conditions require an optional HP Accidental Damage Protection Care Pack.  
 6. Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region. On-site service may be provided pursuant to a service contract between HP and an authorized HP third-party provider and is not available in certain countries. Global service response times are based on commercially reasonable best effort and may vary by country.  
 7. Optional features, accessories and mounting hardware sold separately or as add-on features.  
 8. IP54 disclaimer: Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack. HP Engage Go 10" Mobile System is IP54 rated. If unit has optional payment device IP rating goes down to IP40.  
 9. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit [www.epeat.net](http://www.epeat.net) for more information.  
 10. MIL-STD testing is not intended to demonstrate fitness for U.S. Department of Defense 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 Service.

Learn more at [www.hp.com/engageforhealthcare](http://www.hp.com/engageforhealthcare)

Copyright © 2021 HP Development Company, L.P. The only warranties for HP products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Intel, Pentium, Celeron, the Intel logo, Intel Core, and Core Inside are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. USB Type-C™ and USB-C™ are trademarks of USB Implementers Forum. ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency. Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Linux® is the registered trademark of Linus Torvalds in the U.S. and other countries. 2017 Google LLC All rights reserved. Google, the Google Logo and Android are registered trademarks of Google LLC. DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. NVIDIA and the NVIDIA logo are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries. All other trademarks are the property of their respective owners.

