

HP Engage One AiO System series



Retail redefined by design.

With security, durability, and flexibility built into its gorgeous design, the HP Engage One System meets the demands of your business and marks a new era in retail.



Sleek. Modern. Adaptable.

Build the ideal checkout, interactive signage or self-service solution for your retail or hospitality environment with the streamlined, versatile HP Engage One System and its accessory ecosystem¹, all available in a choice of colors.

Secure data. Protect customers.

Today's business calls for next-level security. The HP Engage One System answers with a self-healing PC BIOS and firmware that shields the BIOS against attacks to help keep your data, devices, and customers safe and secure.

Durable. Powerful. Built for the day ahead.

Power through your peaks with 7th generation Intel[®] processors and a durable system that has a 5-year lifecycle and up to a 3-year standard limited warranty.² Get up to 5 years peace of mind with optional HP Care services.³

Additional Features

- Enjoy Windows management and security features that support seamless integration with your existing Windows apps and infrastructure.
- Set a new bar for sophistication with components and accessories that complement the HP Engage One System aesthetic, including stands, magnetic stripe reader, barcode scanner, customer-facing displays, and an in-column or standalone receipt printer.¹
- Engage customers and enable associates with a modern, polished 14" diagonal touchscreen display that's intuitive and responsive for fast interaction and has an anti-glare coating to minimize light interference.
- Entrust a device that's not only beautiful but retail-hardened. It's designed to pass MIL-STD 801G with a sturdy, anodized aluminum chassis that resists spills by channeling liquids away from the screen.⁵
- Get extra protection with automatic updates and security checks from HP BIOSphere Gen3. Control application and system access with Device Guard, Credential Guard, and an optional fingerprint reader.^{1,6,7}
- The HP Engage One System is ready for duty with 7th generation Intel[®] processors, efficient M.2 storage, fast DDR4 memory, and optional wireless LAN with Bluetooth[®]. An integrated SD card reader supports easy backup, deployment, and servicing.^{1,8}

Component Breakdown Top-to-bottom

1. Head unit: Choice of Model 141 (Intel® Celeron® 3965U), 143 (Intel® Core™ i3 - 7100U) or 145 (Intel® i5 -7300U)
2. Fixed Position or Swivel & Tilt stand or No Stand Option
3. Optional Integrated Printer or Stand Spacer
4. Stability Base Plate
5. Connectivity Base: 2 Options based on I/O requirements



Accessories

Accessories	1RL96AA HP Engage One Serial/USB Thermal Printer (Black) 3GS19AA (White)
	1RL95AA HP Engage One Top Mount 2x20 CFD (Black) 3GS18AA (White)
	1RL97AA HP Engage One 2D Barcode Scanner (Black) 3GS20AA (White)
	1XD81AA HP Engage One 10.1in Touch Display (Black) 3FH67AA (White)
	1XD80AA HP Engage One 10.1in Non-Touch Display (Black) 3FH66AA (White)
	1RL98AA HP Engage One Fingerprint Reader (Black) 3GS21AA (White)

Technical specifications

Model	HP Engage One AiO System Model 141	HP Engage One AiO System Model 143	HP Engage One AiO System Model 145
Available Operating System	Windows 10 Pro 64-bit ¹ Windows 10 IoT Enterprise 2019 LTSC 64 ¹ Windows 10 IoT Enterprise 2016 LTSC 64 Android (image download) FreeDOS 2.0 SUSE Linux® Enterprise Desktop 12 (certification only)		
Available Processors	Intel® Celeron® 3965U with Intel® HD Graphics 610 (2.2 GHz, 2 MB cache, 2 cores)	Intel® Core™ i3-7100U with Intel® HD Graphics 620 (2.4 GHz, 3 MB cache, 2 cores)	Intel® Core™ i5-7300U with Intel® HD Graphics 620 (2.6 GHz base frequency, up to 3.5 GHz with Intel® Turbo Boost Technology 2.0, 3 MB cache, 2 cores)
Chipset	Multi-chip package		
Maximum Memory	32 GB DDR4-2400 SDRAM ⁴		
Memory Slots	2 SODIMM Transfer rates up to 2400 MT/s.		
Maximum Internal Storage	512 GB SATA SSD (M.2) ⁵ 1 TB PCIe® NVMe™ SSD ⁵		
Internal Drive Bays	One M.2		
Expansion Slots	1 M.2 2230; SD card reader ⁶		
Ports and Connectors	Back 1 cash drawer connector; 1 USB Type-C™ (charging); 1 power connector; 3 serial; 4 USB; 2 USB 3.0; 1 RJ-45 ¹³ Side 1 headset connector ¹⁴		
Available Graphics	Intel® HD Graphics 610	Intel® HD Graphics 620	Intel® HD Graphics 620
Audio	Integrated HD audio with Realtek ALC3228 codec with standards internal speakers and stereo headphone jack		
Display	14" diagonal FHD anti-glare touch screen (1920 x 1080) ¹⁵		
Product Color	Ebony black or ceramic white		
Available Software	HP business PCs are shipped with a variety of software titles including: HP BIOSphere with Sure Start Generation 3.0, HP Support Assistant, HP Device Guard, HP Credential Guard. Please refer to this product's quick spec document for a full list of preinstalled software. ⁹		
Security Management	Power-on password (via BIOS); Setup password (via BIOS); VESA mounting; HP Engage One Keyed Cable Lock; HP FingerPrint Sensor (optional); HP BIOSphere with SureStart Gen 3; Device guard; Credential guard and password protection; Trusted Platform Module TPM 2.0 Embedded Security Chip; USB enable/disable (via BIOS) ^{9,12}		
Dimensions (W x D x H)	33.62 X 21.64 X 1.76 cm (head unit); 9.6 x 9.6 x 26 cm (stand with column printer); 28.4 x 16.2 x 2.92 cm (connectivity base) 13.23 x 8.51 x 0.69 in (head unit); 3.77 x 3.77 x 10.2 in (stand with column printer); 11.23 x 6.37 x 1.14 in (connectivity base)		
Weight	1.33 kg (rotate stand); 1.09 kg (fixed stand); 1.38 kg (head unit); 0.56 kg (connectivity base); 1.94 kg (printer) 2.92 lb (rotate stand); 2.39 lb (fixed stand); 3.03 lb (head unit); 1.23 lb (connectivity base); 4.26 lb (printer)		
Operating environment	Temperature: 10 to 40°C		
Power	120 W, 88% efficiency, active PFC (basic base); 180 W, 89% efficiency, active PFC (advanced base); 65 W, 89% efficiency at 20 V, active PFC (display head unit)		
Energy Efficiency Compliance	ENERGY STAR® certified and EPEAT® registered configurations available ¹⁰		
Environmental Specifications	Low halogen ¹¹		
Accessories	HP Engage One Serial/USB Thermal Printer 1RL96AA (Black) 3GS19AA (White); HP Engage One Top Mount 2x20 CFD 1RL95AA (Black) 3GS18AA (White); HP Engage One 2D Barcode Scanner 1RL97AA (Black) 3GS20AA (White); HP Engage One 10.1in Touch Display 1XD81AA (Black) 3FH67AA (White); HP Engage One 10.1in Non-Touch Display 1XD80AA (Black) 3FH66AA (White); HP Engage One Fingerprint Reader 1RL98AA (Black) 3GS21AA (White). Configurable only: HP Engage One MSR; HP Engage One Column Printer; HP Engage One Rotate/Tilt Stand; HP Engage One Fixed Position Stand.		

Footnotes

¹ Optional features sold separately or as add-on features.

² 1- or 3-year limited warranty, depending on country.

³ HP Care Services are optional. Service levels and response times for HP Care Pack Services may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit <http://www.hp.com/go/cpc>. 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.

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 testing is pending and 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 Pack.

⁶ HP BIOSphere Gen3 requires Intel® or AMD® 7th generation processors.

⁷ Microsoft Device Guard and Credential Guard are available with Windows 10 IoT Enterprise 2016 LTSB delivered from HP or to customers with a volume license to use Windows 10 Enterprise. Microsoft Device Guard and Credential Guard are not available with Windows 10 Pro. The installation of Windows 10 Enterprise and Microsoft Device Guard and Credential Guard are available through HP Configuration & Deployment Services.

⁸ Wireless access point and Internet access required.

Technical specifications disclaimers

¹ 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/>.

² Multicore 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.

³ Your product does not support Windows 8 or Windows 7. In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on <http://www.support.hp.com>.

⁴ Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.

⁵ For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) is reserved for system recovery software.

⁶ Wireless cards are optional or add-on features and requires separately purchased wireless access point and internet service. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ac WLAN devices.

⁷ Intel® HD Graphics 610: integrated on Celeron™ G3965U; Intel® HD Graphics 620: integrated on 7th gen Core™ i7/i5/i3 processors.

⁸ Optional MSR is integrated directly into display head unit.

⁹ HP BIOSphere with Sure Start available only on business PCs with HP BIOS. HP BIOSphere Gen 3 requires Intel® 7th generation processors.

¹⁰ EPEAT® registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at www.hp.com/go/options.

¹¹ External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen. Standard configurations meet the low halogen specifications however, some custom feature components may not meet the same Low Halogen standard. A standard configuration includes display head, rotate / tilt of fixed position stand, stability plate and I/O Connectivity Base.

¹² Device Guard is only available with Windows 10 IoT 64 Enterprise LTSB for Retail. Device Guard is not available with Windows 10 Pro.

¹³ Optional HP Engage One Basic or Advanced I/O Connectivity base. Advanced I/O Base available early 2018. Refer to quick specs for full I/O specifications.

¹⁴ LAN - in Retail I/O Connectivity Base.

¹⁵ For further details please refer to Quick Specs document.

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