

# HP MP9 G4 Retail System



Drive every facet of your retail and hospitality business, from back-office operations to digital customer engagements to point-of-sale, with the flexible, fully-loaded HP MP9 Retail System, our smallest powerhouse retail performer.

HP recommends Windows 10 Pro



## Ready to run and leave plenty of room

This surprisingly small system delivers across your business without taking up space. It offers Windows or FreeDOS, an 8th Gen Intel® Core™ 35W processor<sup>2</sup>, up to 32 GB memory, and optional Intel® vPro™.<sup>3</sup>

## Flexibility that keeps up with your evolving business

Expand at your pace with optional<sup>4</sup> dual M.2 slots, which allow for SSD RAID, and a configurable I/O port to add your choice of accessories and displays. Position virtually anywhere with the integrated VESA mount.<sup>5</sup>

## Security and manageability beyond the point of sale

Get trusted HP security and manageability at every endpoint with built-in tools like HP Sure Start Gen4<sup>6</sup> that protects against BIOS attacks, HP BIOSphere Gen4<sup>7</sup> to help prevent downtime, and HP Manageability Integration Kit<sup>8</sup> to manage devices.

## Additional Features

- Stick with an OS you know and trust with your choice of Windows 10 Pro<sup>1</sup>, Windows IoT or FreeDOS, along with powerful security, manageability, and connectivity features from HP.
- Spread the word with demos, videos, and dynamic content with integrated Intel® graphics and DisplayPort™ support for up to three daisy-chained digital signage displays.
- Customize for traditional point-of-sale use by adding an optional hub to connect to your retail peripherals like a cash drawer, barcode scanner or printer.
- Engage customers in more places and reduce complexity with optional Intel® vPro™ and AMT™ that help scale customer engagement touchpoints, remotely manage growing fleets, and reduce service costs.
- Rest easy with a system that has a 36-month manufacturing lifecycle and is designed to pass 120,000 hours of HP Total Test Process. Add an optional dust filter to extend lifespan.
- Protect your system with the hardware-enforced self-healing protection of HP Sure Start Gen4 that automatically recovers the BIOS.
- Help protect your PC from websites, attachments, malware, ransomware, and viruses with hardware-enforced security from HP Sure Click.
- The HP Manageability Integration Kit helps speed up image creation and management of hardware, BIOS, and security through Microsoft System Center Configuration Manager.
- Keep engagements high and downtime low with HP BIOSphere Gen4 firmware-level automation. Your system has extra protection thanks to automatic updates and security checks.

## HP MP9 G4 Retail System Specifications Table



<b>Available Operating System</b>	Windows 10 Pro 64 <sup>1</sup> Windows 10 IoT Enterprise 2016 LTSC 64 <sup>1,13</sup> FreeDOS 2.0
<b>Processor Family</b>	8th Generation Intel® Core™ i7 + processor (Core™ i7 and Intel® Optane™ memory); 8th Generation Intel® Core™ i5 + processor (Core™ i5 and Intel® Optane™ memory); 8th Generation Intel® Core™ i7 processor (i7-8700T); 8th Generation Intel® Core™ i5 processor (i5-8600T); 8th Generation Intel® Core™ i3 processor; Intel® Pentium® processor
<b>Available Processors</b>	Intel® Pentium® G4900T with Intel® HD Graphics 610 (2.9 GHz, 2 MB cache, 2 cores) 16,32,33,34 Intel® Pentium® G5400T with Intel® HD Graphics 610 (3.1 GHz, 4 MB cache, 2 cores) Intel® Core™ i3 8100T with Intel® UHD Graphics 630 (3.1 GHz, 6 MB cache, 4 cores) Intel® Core™ i5 8600T vPro™ with Intel® UHD Graphics 630 (2.3 GHz base frequency, up to 3.7 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores) Intel® Core™ i5+ 8600T vPro™ (Core™ i5 and 16 GB Intel® Optane™ memory) with Intel® UHD Graphics 630 (2.3 GHz base frequency, up to 3.7 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores) Intel® Core™ i7 8700T vPro™ processor with Intel® UHD Graphics 630 (2.4 GHz base frequency, up to 4 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores) Intel® Core™ i7+ 8700T vPro™ (Core™ i7 and 16 GB Intel® Optane™ memory) with Intel® UHD Graphics 630 (2.6 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores)
<b>Chipset</b>	Intel® Q370
<b>Maximum Memory</b>	32 GB DDR4-2666 SDRAM <sup>3,4</sup> (Transfer rates up to 2666 MT/s.)
<b>Memory Slots</b>	2 SODIMM
<b>Internal Storage</b>	500 GB up to 2 TB 7200 rpm SATA <sup>2</sup> 500 GB 7200 rpm SATA SED Opal <sup>2</sup> 500 GB 7200 rpm SATA FIPS SED <sup>2</sup> 500 GB up to 2 TB 5400 rpm SATA SSHD <sup>2</sup> 256 GB up to 512 GB SATA SSD <sup>2</sup>
<b>Available Graphics</b>	Integrated: Intel® UHD Graphics 630; Intel® UHD Graphics 610
<b>Audio</b>	Conexant CX20632 codec, universal audio jack, headset and headphone front ports (3.5 mm), multi-streaming capable
<b>Communications</b>	LAN: Intel® I219-LM GbE WLAN: Realtek RTL8822BE-CG 802.11a/b/g/n/ac (2x2) with Bluetooth® 4.1 M.2 PCIe®; Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) and Bluetooth® 5 M.2, non-vPro™; Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) and Bluetooth® 5 M.2, vPro™; Realtek RTL8821CE-CG 802.11a/b/g/n/ac (1x1) with Bluetooth® 4.2 M.2 PCIe® <sup>5</sup>
<b>Expansion Slots</b>	1 M.2 2230; 2 M.2 2230/2280 (1 M.2 2230 for WLAN; 2 M.2 2230/2280 for storage.)
<b>Ports and Connectors</b>	Front: 1 headphone; 1 headset connector; 1 USB 3.1 Gen 1; 1 USB 3.1 Gen 2; 1 USB 3.1 Type-C™ Gen 2 <sup>15</sup> Rear: 1 RJ-45; 2 DisplayPort™ 1.2; 2 USB 3.1 Gen 1; 2 USB 3.1 Gen 2 <sup>8</sup>
<b>Internal Drive Bays</b>	One 2.5"
<b>Available Software</b>	Buy Office; HP ePrint Driver; HP Recovery Manager; HP Support Assistant; Absolute Persistence module; HP Device Access Manager; HP Hotkey Support; HP Jumpstart; HP Noise Cancellation Software; HP PhoneWise; HP Secure Erase; HP Sure Click; HP Velocity; Microsoft Defender; Native Miracast Support; HP Wireless Wakeup; HP WorkWise <sup>9,17,18,19,20,21,22,23,24,25</sup>
<b>Security Management</b>	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); DriveLock; HP BIOSphere; HP Credential Manager; HP Password Manager; HP Power On Authentication; HP Spare Key; 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; Master Boot Record Security; HP Client Security Suite Gen 4; HP Sure Start Gen 4; Pre-boot Authentication <sup>7,28,29,30,31</sup>
<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); Ivanti Management Suite; HP Management Integration Kit for Microsoft System Center Configuration Management Gen 2 <sup>10,26,27</sup>
<b>Power</b>	65 W external power adapter, up to 89% efficiency, active PFC
<b>Dimensions (W x D x H)</b>	6.97 x 6.89 x 1.34 in 17.7 x 17.5 x 3.4 cm
<b>Weight</b>	2.75 lb 1.25 kg (Exact weight depends on configuration.)
<b>Environmental</b>	Low halogen <sup>12</sup>
<b>Energy Efficiency Compliance</b>	ENERGY STAR® certified and EPEAT® Gold <sup>11</sup>

**Messaging Footnotes**

- <sup>1</sup> 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>.
- <sup>2</sup> 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.
- <sup>3</sup> Some functionality of Intel® vPro™, such as Intel Active management technology and Intel Virtualization technology, requires additional 3rd party software in order to run. Availability of future "virtual appliances" applications is dependent on 3rd party software providers. Compatibility with future "virtual appliances" is yet to be determined.
- <sup>4</sup> Sold separately or as an optional feature.
- <sup>5</sup> Mounting hardware sold separately.
- <sup>6</sup> HP Sure Start Gen4 requires Windows and is available on HP Elite, HP Pro 600, and select HP RPOS products equipped with 8th generation Intel® or AMD processors.
- <sup>7</sup> HP BIOSphere Gen4 requires Windows and Intel® or AMD 8th Gen processors. Features may vary depending on the platform and configurations.
- <sup>8</sup> HP Manageability Integration Kit requires Windows and can be downloaded from <http://www.hp.com/go/clientmanagement>.
- <sup>9</sup> HP Sure Click requires Windows, is available on select HP platforms, and supports Microsoft® Internet Explorer, Google Chrome, and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read-only mode. Check <http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-0922ENW> for all compatible platforms as they become available.
- <sup>10</sup> Requires Windows and Internet access.

**Technical Specifications Footnotes**

- <sup>1</sup> 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>
- <sup>2</sup> For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB (for Windows 7) and 36 GB (for Windows 8.1/10) of system disk is reserved for the system recovery software.
- <sup>3</sup> For systems configured with more than 3 GB of memory and a 32-bit operating system, all memory may not be available due to system resource requirements. Addressing memory above 4 GB requires a 64-bit operating system. Memory modules support data transfer rates up to 2666 MT/s; actual data rate is determined by the system's configured processor. See processor specifications for supported memory data rate.
- <sup>4</sup> All memory slots are customer accessible / upgradeable.
- <sup>5</sup> Wireless access point and internet service required. Availability of public wireless access points is limited.
- <sup>6</sup> Availability may vary by country.
- <sup>7</sup> 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. HP BIOSphere Gen4: features may vary depending on the PC platform and configurations requires 8th Gen Intel® processors.
- <sup>8</sup> (2) USB 3.1 Gen 1 (5 Gbit/s): allows for wake from S4/S5 with keyboard/mouse when connected and enabled in BIOS.
- <sup>9</sup> Absolute Persistence module: is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: <http://www.absolute.com/company/legal/agreements/computrace-agreement>. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
- <sup>10</sup> HP Driver Packs: not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>.
- <sup>11</sup> EPEAT® registered where applicable. EPEAT registration varies by country. See [www.epeat.net](http://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](http://www.hp.com/go/options).
- <sup>12</sup> External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
- <sup>13</sup> Some devices for academic use will automatically be updated to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary; see <https://aka.ms/ProEducation> for Windows 10 Pro Education feature information.
- <sup>14</sup> NOTE: 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>.
- <sup>15</sup> (1) USB 3.1 Type-C™ Gen 2: 10 Gbit/s data speed; (1) USB 3.1 Gen 2: 10 Gbit/s data speed; (1) USB 3.1 Gen 1: charging, 5 Gbit/s data speed.
- <sup>16</sup> 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.
- <sup>17</sup> Native Miracast Support is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.
- <sup>18</sup> HP ePrint Driver + JetAdvantage: requires an Internet connection to HP web-enabled printer and HP ePrint account registration (for a list of eligible printers, supported documents and image types and other HP ePrint details, see [www.hp.com/go/eprintcenter](http://www.hp.com/go/eprintcenter)). Print times and connection speeds may vary.
- <sup>19</sup> HP Support Assistant requires Windows and Internet access.
- <sup>20</sup> HP PhoneWise Client may not be available with HP Workwise. For supported platforms and HP PhoneWise system requirements see [www.hp.com/go/HPPhoneWise](http://www.hp.com/go/HPPhoneWise).
- <sup>21</sup> HP WorkWise smartphone app is available as a free download on the Google Play. As of September 2017, HP WorkWise will no longer support iOS or iPhone® devices.
- <sup>22</sup> Microsoft Defender Opt in and internet connection required for updates.
- <sup>23</sup> HP Sure Click: is available on select HP platforms and supports Microsoft® Internet Explorer and Chromium™. Check <http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-0922ENW> for all compatible platforms as they become available.
- <sup>24</sup> HP Secure Erase: for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88. Supported on Elite platforms with BIOS version F.03 or higher.
- <sup>25</sup> HP Velocity: Availability may vary by country.
- <sup>26</sup> HP Management Integration Kit for Microsoft System Center Configuration Management Gen 2: can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>
- <sup>27</sup> Ivanti Management Suite: subscription required.
- <sup>28</sup> HP Client Security Suite Gen 4: requires Windows and Intel® or AMD 8th generation processors.
- <sup>29</sup> 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. HP Sure Start Gen 4: is available on HP ProDesk & ProOne products equipped with Intel® 8th generation processors.
- <sup>30</sup> RAID configuration: sold separately or as an optional feature, multiple data drives setup in a RAID array is optional and requires product to be configured with vPro™ at purchase.
- <sup>31</sup> Trusted Platform Module TPM 2.0 Embedded Security Chip shipped with Windows 10 (Common Criteria EAL4+ Certified)(FIPS 140-2 Level 2 Certified): In some scenarios, machines pre-configured with Windows OS might ship with TPM turned off.
- <sup>32</sup> 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](http://www.intel.com/technology/turboboost) for more information.
- <sup>33</sup> Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system and requires configuration with an optional Intel® Core™ i(5 or 7)+ processor.
- <sup>34</sup> Some functionality of this technology, such as Intel Active management technology and Intel Virtualization technology, requires additional 3rd party software in order to run. Availability of future "virtual appliances" applications for Intel vPro technology is dependent on 3rd party software providers. Compatibility of this generation of Intel vPro technology-based hardware with future "virtual appliances" is yet to be determined.

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4AA7-3249ENUC, June 28th 2018

