



HP ProDesk 680 G4 Microtower PC

Powerful and ready for expansion

Powered for business, the HP ProDesk 680 MT is a highly expandable PC featuring flexible connectivity options and comprehensive manageability features in a stylishly designed chassis for the modern workplace.



HP recommends Windows 10 Pro.

- Windows 10 Pro¹
- Intel® Core™ processors²

Expansion that extends your investment

- The full value of your investment comes with expansion that extends the life of your PC. The HP ProDesk 680 MT has three bays and four slots, as well as configurable video and legacy ports.

Powerful options

- Get high-performance and expansion with 9th Gen Intel® Core™ processors² and powerful memory that supports up to 128 GB⁴. Amplify performance with optional Intel® Optane™ memory³ dual graphics cards⁴ and a 400 W PSU⁴ for viewing VR content

Connection hub

- With up to three video outputs⁴, ten total USB ports including six easy to reach front USB ports, and optional Bluetooth®⁴ connectivity, the HP ProDesk 680 MT becomes a hub for all your devices in the office.

Tested and ready

- The reliable HP ProDesk 680 MT experienced 120,000 hours of the HP Total Test Process⁵ and now has an optional dust filter⁴ to help extend the life of your PC by reducing airborne particulate intake in the most demanding work environments.

Featuring

- Power through your day with Windows 10 Pro with built-in security, collaboration, and connectivity.¹
- Help lower power waste and save money with a highly-efficient power supply.
- Help protect your PC from websites, attachments, malware, ransomware, and viruses with hardware-enforced security from HP Sure Click.⁶
- Keep productivity high and downtime low with HP BIOSphere Gen5 firmware-level automation. Your PCs have extra protection thanks to automatic updates and security checks.⁷
- The HP Manageability Integration Kit helps speed up image creation and management of hardware, BIOS, and security through Microsoft System Center Configuration Manager.⁸
- Simplify securing your PC. HP Client Security Manager Gen5 offers a single interface to set up and manage powerful security features, including HP SpareKey and HP Password Manager.⁹
- Improve the quality and security of custom Windows images with HP Image Assistant Gen3 which assists ITDMs with image creation, identifies problems, and provides recommendations and remediation.

HP ProDesk 680 G4 Microtower PC Specifications Table



Available Operating Systems	Windows 10 Pro 64 – HP recommends Windows 10 Pro for business ¹ Windows 10 Pro 64 (National Academic only) ² Windows 10 Home 64 ¹ Windows 10 Home Single Language 64 ¹ FreeDOS
Processor family³	8th Generation Intel® Core™ i3 processor (i3-8100); 8th Generation Intel® Core™ i5 processor (i5-8500, i5-8600); 8th Generation Intel® Core™ i5+ processor (i5-8500, i5-8600); 8th Generation Intel® Core™ i7 processor (i7-8700); 8th Generation Intel® Core™ i7+ processor (i7-8700); 9th Generation Intel® Core™ i3 processor (i3-9100); 9th Generation Intel® Core™ i5 processor (i5-9500, i5-9600); 9th Generation Intel® Core™ i7 processor (i7-9700); Intel® Celeron® processor (G4900 is Windows 10 only); Intel® Celeron® processor (G4930, G4900 are Windows 10 only); Intel® Pentium® processor (G5400, G5420, G5620 are Windows 10 only)
Available Processors^{4,5,6,7,23}	Intel® Celeron® G4900 with Intel® UHD Graphics 610 (3.1 GHz base frequency, 2 MB cache, 2 cores); Intel® Celeron® G4930 with Intel® UHD Graphics 610 (3.2 GHz base frequency, 2 MB cache, 2 cores); Intel® Core™ i3-8100 with Intel® UHD Graphics 630 (3.6 GHz base frequency, 6 MB cache, 4 cores); Intel® Core™ i3-9100 with Intel® UHD Graphics 630 (3.6 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 6 MB cache, 4 cores); Intel® Core™ i5+ 8500 vPro™ processor (Core™ i5 and 16 GB Intel® Optane™ memory) with Intel® UHD Graphics 630 (3 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores); Intel® Core™ i5+ 8600 vPro™ processor (Core™ i5 and 16 GB Intel® Optane™ memory) with Intel® UHD Graphics 630 (3.1 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores); Intel® Core™ i5-8500 with Intel® UHD Graphics 630 (3 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores) supports Intel® vPro™ Technology; Intel® Core™ i5-8600 with Intel® UHD Graphics 630 (3.1 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores) supports Intel® vPro™ Technology; Intel® Core™ i5-9600 with Intel® UHD Graphics 630 (3.1 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores) supports Intel® vPro™ Technology; Intel® Core™ i7+ 8700 vPro™ processor (Core™ i7 and 16 GB Intel® Optane™ memory) with Intel® UHD Graphics 630 (3.2 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores); Intel® Core™ i7-8700 with Intel® UHD Graphics 630 (3.2 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores) supports Intel® vPro™ Technology; Intel® Pentium® Gold G5400 with Intel® UHD Graphics 610 (3.7 GHz, 4 MB cache, 2 cores); Intel® Pentium® Gold G5420 with Intel® UHD Graphics 610 (3.8 GHz base frequency, 4 MB cache, 2 cores); Intel® Pentium® Gold G5620 with Intel® UHD Graphics 630 (4 GHz base frequency, 4 MB cache, 2 cores); Intel® Core™ i5-9500 with Intel® UHD Graphics 630 (3 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores) supports Intel® vPro™ Technology; Intel® Core™ i7-9700 with Intel® UHD Graphics 630 (3 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB cache, 8 cores) supports Intel® vPro™ Technology
Chipset²³	Intel® Q370 (vPro); Intel® Q370 (non-vPro)
Form factor	Microtower
Maximum memory	128 GB DDR4-2666 SDRAM ^{8,9} Transfer rates up to 2666 MT/s.
Memory slots	4 DIMM
Internal storage	256 GB up to 512 GB SATA SSD ¹⁰ 256 GB up to 512 GB PCIe® NVMe™ M.2 SSD ¹⁰ 128 GB up to 1 TB PCIe® NVMe™ TLC M.2 SSD ¹⁰ 500 GB up to 2 TB 7200 rpm SATA ¹⁰
Optical drive	HP 9.5 mm Slim Blu-ray writer double layer; HP 9.5 mm Slim DVD-ROM double layer; HP 9.5 mm Slim DVD-Writer double layer ¹¹
Available Graphics	Integrated: Intel® UHD Graphics 630; Intel® UHD Graphics 610 Discrete: AMD Radeon™ 520 Graphics (1 GB GDDR5 dedicated); AMD Radeon™ R7 430 Graphics (2 GB GDDR5 dedicated); AMD Radeon™ RX 550 Graphics (4 GB GDDR5 dedicated); AMD Radeon™ RX 550X Graphics (4 GB GDDR5 dedicated); AMD Radeon™ RX 580 Graphics (8 GB GDDR5 dedicated); NVIDIA® GeForce RTX™ 2060 (6 GB GDDR6 dedicated) ^{11,15}
Audio	Conexant CX20632 codec, 2 W internal speaker, universal audio jack, headset and headphone front ports (3.5 mm), multi-streaming capable
Expansion slots	1 M.2 2230; 1 M.2 2230/2280; 1 PCI; 1 PCIe 3 x1; 1 PCIe 3 x16; 1 PCIe 3 x16 (wired as x4) (1 M.2 2230 slot for WLAN and 1 M.2 2230/2280 slot for storage.)
Ports and Connectors	Front: 1 headset connector; 2 USB 3.1 Gen 2; 4 USB 3.1 Gen 1 ¹³ Rear: 1 audio-in; 1 audio-out; 1 DisplayPort™ 1.2; 1 power connector; 1 RJ-45; 1 VGA; 4 USB 2.0 Optional: 1 DisplayPort™ 1.2; 1 HDMI 2.0; 1 parallel; 1 serial; 1 serial and PS/2 ports combination; 1 USB 3.1 Type-C™ Gen 2 (DisplayPort™); 1 VGA; 4 serial
Input devices	HP PS/2 Business Slim Keyboard; HP USB Conferencing Keyboard; HP USB Wired Keyboard; USB Business Slim Standalone Wired Keyboard; HP USB Collaboration Wired Keyboard; HP Wireless Collaboration Keyboard; HP Wireless Premium Standalone Keyboard; HP PS/2 Mouse; HP USB 1000 dpi Laser Mouse; HP USB Hardened Mouse; HP USB Optical Mouse; Universal USB wired optical mouse; HP USB Premium Mouse
Communications	LAN: Intel® I210-T1 PCIe® GbE; Intel® I219LM GbE ¹⁴ WLAN: Realtek RTL8821CE-CG 802.11 a/b/g/n/ac (1x1) with Bluetooth® 4.2 M.2 PCIe®; Intel® Dual Band Wi-Fi 5 9560 (2x2) and Bluetooth® 5 M.2 PCIe®, non-vPro™; Intel® Dual Band Wi-Fi 5 9560 (2x2) and Bluetooth® 5 M.2 PCIe®, vPro™ ^{15,23} ;
Drive Bays	One 3.5" HDD; One 3.5" (2.5") HDD ¹²
Environmental	Operating temperature: 5 to 35°C; Operating humidity: 5 to 90% RH
Available Software	Buy Office (sold separately); HP Hotkey Support; HP JumpStarts; HP Noise Cancellation Software; HP Privacy Settings; HP Setup Integrated OOBE Win10; HP Support Assistant; Native Miracast Support ¹⁷
Security management	Absolute Persistence module; DriveLock; Hood sensor; HP BIOSphere; HP Client Security Suite; HP Power On Authentication; HP Secure Erase; Intel® Identity Protection Technology (Intel® IPT); Master Boot Record Security; Power-on password (via BIOS); Pre-boot Authentication; RAID configurations; Removable media write/boot control; SATA port disablement (via BIOS); Serial enable/disable (via BIOS); Setup password (via BIOS); Support for chassis cable lock devices; Trusted Platform Module TPM 2.0 Embedded Security Chip shipped with Windows 10 (Common Criteria EAL4+ Certified)/FIPS 140-2 Level 2 Certified; USB enable/disable (via BIOS); Windows Defender ^{19,20,24,25,27,28,30,31}
Management features	HP BIOS Config Utility (download); HP Client Catalog (download); HP Cloud Recovery; HP Driver Packs (download); HP Image Assistant; HP Management Integration Kit for Microsoft System Center Configuration Management; HP System Software Manager (download); Update BIOS via Cloud or Network (BIOS feature) ^{21,22,32}
Power	180 W internal power supply, up to 90% efficiency, active PFC; 250 W internal power supply, up to 92% efficiency, active PFC; 400 W internal power supply, up to 92% efficiency, active PFC
Dimensions	17 x 27.4 x 33.8 cm
Weight	5.47 kg (Configured with 1 HDD and 1 ODD. Weight will vary by configuration.)
Energy efficiency compliance	ENERGY STAR® qualified; EPEAT® 2019 registered where applicable ¹⁸

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Accessories and services (not included)

HP DisplayPort Port Flex IO



Maximize the life of your PC as your business needs change with the flexible display connectivity of the HP DisplayPort Port Flex IO.

Product number: 3TK72AA

HP HDMI Port Flex IO (400/600/800)



Maximize the life of your PC as your business needs change with the flexible display connectivity of the HP HDMI Port Flex IO (400/600/800).

Product number: 3TK74AA

HP VGA Port Flex IO



Maximize the life of your PC as your business needs change with the flexible display connectivity of the HP VGA Port Flex IO.

Product number: 3TK80AA

HP Wireless Slim Business Keyboard



Enjoy easy data entry and wireless connectivity with the HP Wireless Business Slim Keyboard, designed to complement the 2015 class of HP Business PCs.

Product number: N3R88AA

HP 3-year Next Business Day Onsite Optional Customer Self Repair Desktop/Workstation Only Hardware Service



Receive 3 years of next business day onsite repair from an HP-qualified technician for your computing device, if the issue cannot be solved remotely. For more information on Care Pack services, please visit www.hp.com/go/cpc.

Product number: UE379E

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Messaging Footnotes

- 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 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.
- ³ Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system.
- ⁴ Sold separately or as an optional feature.
- ⁵ HP Total Test Process testing is not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.
- ⁶ 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>.
- ⁷ HP Sure Click 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, when Microsoft Office or Adobe Acrobat are installed.
- ⁸ HP BIOSphere Gen5 is available on select HP Pro and Elite PCs. See product specifications for details. Features may vary depending on the platform and configurations.
- ⁹ HP Manageability Integration Kit can be downloaded from <http://www.hp.com/go/clientmanagement>.
- ¹⁰ HP Client Security Manager Gen5 requires Windows and is available on the select HP Pro and Elite PCs. See product specifications for details.

Technical Specifications Footnotes

- 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 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.
- ³ 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>
- ⁴ 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.
- ⁵ Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system.
- ⁶ 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.
- ⁷ Some functionality of 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 for Intel vPro technology is dependant on 3rd party software providers. Compatibility with future "virtual appliances" is yet to be determined.
- ⁸ 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.
- ⁹ All memory slots are customer accessible / upgradeable.
- ¹⁰ For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.
- ¹¹ Sold separately or as an optional feature.
- ¹² Configuration would be (1) 3.5" and (1) 3.5"/2.5" internal storage drive bay; (1) 9.5 mm internal optical drive bay.
- ¹³ (1) USB 3.1 Gen 1 is fast charging capable.
- ¹⁴ Intel® I210-T1 PCIe® GbE: Sold separately or as an optional feature, which is subject to change and availability.
- ¹⁵ Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited.
- ¹⁶ The MT can support a single graphics card up to 75 W. When configured with dual graphics cards support is limited to 35 W for each.
- ¹⁷ Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.
- ¹⁸ Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more information.
- ¹⁹ 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.
- ²⁰ Windows Defender Opt In, Windows 10, and internet connection required for updates.
- ²¹ HP Driver Packs: not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>.
- ²² HP Management Integration Kit for Microsoft System Center Configuration Management: can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>.
- ²³ For full Intel® vPro™ functionality, Windows, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN card and discrete TPM 2.0 are required. See <http://intel.com/vpro>
- ²⁴ 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.
- ²⁵ HP Client Security Suite: features may vary depending on the PC platform.
- ²⁷ 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.
- ²⁸ 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.
- ³⁰ HP Drive Lock currently is not supported on NVMe drives.
- ³¹ HP BIOSphere: features may vary depending on the PC platform and configurations requires 8th Gen Intel® processors.
- ³² 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>.

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4AA7-5837EEAP, November 2019

