



HP ProDesk 680 G3 Microtower PC

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



HP recommends Windows 10 Pro.

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 four bays and four full-height slots, and configurable video and legacy ports.

Powerful options

- HP combined high-performance and massive expansion with 7th Gen Intel® Core™ i3/i5/i7 processors², unleashed by optional Intel® Optane™⁴ technology. Amplify performance with up to 64 GB of DDR4 memory³ and optional dual graphics cards⁵.

HP exclusive security and manageability

- Help prevent data breaches and downtime with HP BIOSphere Gen3⁵ and simplify management with HP WorkWise⁶, HP's most advanced smartphone app for PC management.
- Power through your day with Windows 10 Pro¹ and the powerful HP ProDesk 680 MT with built-in security, collaboration, and connectivity.
- Keep productivity high and downtime low with HP BIOSphere Gen3⁵ firmware-level automation. Your PCs have extra protection thanks to automatic updates and security checks.
- HP WorkWise⁶ is office intelligence rolled into one smartphone app to provide PC security, real-time PC performance information, and simplified printer driver installation for HP PC users.
- The HP Manageability Integration Kit⁸ helps speed up image creation and management of hardware, BIOS, and security through Microsoft SCCM.
- HP Client Security Suite Gen3⁹ features HP Multi-Factor Authenticate, HP Device Access Manager¹⁰, HP SpareKey, and HP Password Manager. These tools work to keep data out of reach and defend against theft, attacks, and unauthorized users.
- Improve the quality and security of custom Windows images with HP Image Assistant which assists ITDMs with image creation, identifies problems, and provides recommendations and remediation.
- Greatly improve the transfer rates of user's data, voice, and video communication when connecting over challenged LAN or Wi-Fi networks with HP Velocity.
- Rest easy with a PC that goes the distance and is designed to pass HP Total Test Process.
- Audio connections are easy with the Universal Audio Jacki that supports mic in, headphones, and CTIA headsets with the same connector.
- Simplify technical support with Helpdesk by HP Care. Rely on cost-effective expertise that's available 24x7, covering multiple brands, devices and operating systems¹¹.
- Help maximize your cash flow with the use of best-in-class hardware and services for a monthly subscription that allow you to replace your PC with a brand new one every three years¹².
- HP helps you preserve your time and optimize your resources with expert configuration and deployment services that bring you fast, accurate, and globally standardized IT solutions.

HP ProDesk 680 G3 Microtower PC Specifications Table



Form Factor	Microtower
Available Operating System	Windows 10 Pro 64 ¹ Windows 10 Home 64 ¹ FreeDOS 2.0 NeoKylin Linux® 64 Windows 10 Pro 64 (National Academic License) ² Windows Home Single Language 64 ¹ Windows 7 Professional 64 (available through downgrade rights from Windows 10 Pro) ^{3,20} Windows 7 Professional 32 (available through downgrade rights from Windows 10 Pro) ^{3,20}
Available Processors ^{4,5}	Intel® Celeron® G3930 with Intel® HD Graphics 610 (2.9 GHz, 2 MB cache, 2 cores); Intel® Core™ i3-6100 with Intel® HD Graphics 530 (3.7 GHz, 3 MB cache, 2 cores); Intel® Core™ i3-7100 with Intel® HD Graphics 630 (3.9 GHz, 3 MB cache, 2 cores); Intel® Core™ i3-7320 with Intel® HD Graphics 630 (4.1 GHz, 4 MB cache, 2 cores); Intel® Core™ i5-6500 with Intel® HD Graphics 530 (3.2 GHz base frequency, up to 3.6 GHz with Intel® Turbo Boost Technology, 6 MB cache, 4 cores); Intel® Core™ i5-6600 with Intel® HD Graphics 530 (3.3 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 6 MB cache, 4 cores); Intel® Core™ i5-7500 with Intel® HD Graphics 630 (3.4 GHz base frequency, up to 3.8 GHz with Intel® Turbo Boost Technology, 6 MB cache, 4 cores); Intel® Core™ i5-7600 with Intel® HD Graphics 630 (3.5 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost, 6 MB cache, 4 cores); Intel® Core™ i7-6700 with Intel® HD Graphics 530 (3.4 GHz base frequency, up to 4 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores); Intel® Core™ i7-7700 with Intel® HD Graphics 630 (3.6 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores); Intel® Pentium® Gold G4560 with Intel® HD Graphics 610 (3.5 GHz, 3 MB cache, 2 cores); Intel® Pentium® Gold G4600 with Intel® HD Graphics 630 (3.6 GHz, 3 MB cache, 2 cores); Intel® Pentium® Gold G4620 with Intel® HD Graphics 630 (3.7 GHz, 3 MB cache, 2 cores); Intel® Pentium® G3950 with Intel® HD Graphics 610 (3 GHz, 2 MB cache, 2 cores); Intel® Pentium® G4400 with Intel® HD Graphics 510 (3.3 GHz, 3 MB cache, 2 cores)
Chipset	Intel® Q270
Maximum Memory	64 GB DDR4-2400 SDRAM ⁶ Transfer rates up to 2400 MT/s
Memory Slots	4 DIMM
Internal Storage	500 GB up to 1 TB 2.5" SATA SSHD (5400 rpm) ⁷ 128 GB up to 256 GB 2.5" SATA SSD ⁷ 500 GB up to 2 TB 3.5" SATA HDD (7200 rpm) ⁷ 256 GB up to 512 GB 2.5" SATA SED SSD ^{7,8} 256 GB up to 1 TB HP Turbo Drive G2 TLC SSD (PCIe) ⁷ up to 1 TB 3.5" SSHD (7200 rpm) ⁷ 500 GB up to 1 TB 2.5" SATA HDD (7200 rpm) ⁷
Optical Drive	Slim DVD-ROM; Slim DVD-Writer ¹⁹
Available Graphics	Integrated: Intel® HD Graphics 530; Intel® HD Graphics 630; Intel® HD Graphics 610 ^{10,11,12} Discrete: AMD Radeon™ R7 450 FH (4 GB); AMD Radeon™ RX 460 FH (2 GB); NVIDIA® GeForce® GT730 HDMI (1 GB); NVIDIA® GeForce® GT730 (2 GB)
Audio	Conexant CX20632 codec with universal audio jack and 2W internal speaker, headset and headphone front ports (3.5 mm), multi-streaming capable
Expansion Slots	1 M.2 2230 for optional wireless NIC; 1 M.2 2280 for storage drives; 1 PCIe 3.0 x16; 1 PCIe 3.0 x1; 2 PCIe 3.0 x1; 1 PCIe 3.0 x4 slot using x16 connector for Optane support; PCI 4.2" full height, 6.6" length
Ports and Connectors	Front: 1 headset connector; 1 USB 2.0 (fast charging); 1 USB 2.0; 2 USB 3.1 Gen 1; 1 USB Type-C™ (charging); 1 SD 4 card reader (optional) Back: 1 audio in; 1 serial (optional); 1 RJ-45; 1 audio out; 1 DisplayPort™; 2 USB 2.0; 2 USB 3.1 Gen 1; 1 power connector; 2 USB 2.0 (non-vPro™); 2 USB 3.1 Gen1 (vPro™) Back (optional): 1 serial (optional); 1 choice of DisplayPort™, HDMI, VGA, serial or USB Type-C™ (optional)
Input Devices	HP Conferencing Keyboard; HP USB PS/2 Washable Keyboard; HP USB Smart Card (CCID) Keyboard; HP USB Business Slim Keyboard; HP PS/2 Business Slim Keyboard; HP USB Business Slim Keyboard (China only); HP USB Grey Keyboard ¹³ HP PS/2 Mouse; HP USB 1000 dpi Laser Mouse; HP Grey V2 Mouse; HP USB Mouse; HP USB and PS/2 Washable Mouse; HP USB Mouse (China only); HP USB Hardened Mouse ¹³
Communications	LAN: Intel® I219LM Gigabit Network Connection LOM WLAN: Intel® 8265 802.11ac (2x2) wireless with Bluetooth® M.2 combo card vPro™; Intel® 8265 802.11ac (2x2) wireless with Bluetooth® M.2 combo card non-vPro™; Intel® 7265 802.11ac (2x2) wireless with Bluetooth® M.2 combo card non-vPro™; Intel® 3168 802.11ac (2x2) wireless with Bluetooth® M.2 combo card non-vPro™ ⁹
Drive Bays	One slim ODD; 1 SD 4 card reader (optional); One 3.5" HDD; One 5.25" or two 2.5" HDD
Available Software	HP business PCs are shipped with a variety of software titles including: HP BIOSphere Gen3, CyberLink Power Media Player, Native Miracast Support, HP ePrint Driver, HP Support Assistant. Please refer to this product's quick spec document for a full list of preinstalled software. ^{14,15,16}
Security Management	Trusted Platform Module TPM 2.0 Embedded Security Chip (SLB9670 - Common Criteria EAL4+ Certified); SATA 0,1 port disablement (via BIOS); Drive lock; Serial, USB enable/disable (via BIOS); Power-on password (via BIOS); Setup password (via BIOS); Solenoid hood lock/intrusion sensor; Support for chassis padlocks and cable lock devices
Management Features	Intel® vPro™ optional (Core i5 and Core i7)
Power	180 W, up to 85% efficient, active PFC
Dimensions	17 x 33.8 x 27.4 cm
Weight	7.14 kg
Environmental	Low halogen ¹⁸
Energy Efficiency Compliance	ENERGY STAR® certified and EPEAT® registered configurations available ¹⁷

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Recommended Accessories and Services

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 Business PC Security Lock v2 Kit



Help prevent chassis tampering and secure your PC and display in workspaces and public areas with the HP Business PC Security Lock v2 Kit.

Product number: N3R93AA

HP USB Graphics Adapter



HP offers a variety of optional products (each sold separately) designed to complement our monitors and enhance the overall computing experience. The super-compact HP USB Graphics Adapter enables connection of up to six simultaneous displays to help you boost productivity and multi-task across several open applications. Use one Adapter to bridge between a notebook or desktop PC and second monitor or use multiple Adapters to connect several displays to each other. Supports resolutions up to 1920 x 1080 (widescreen) or 1600 x 1200 (traditional).

Product number: NL571AA

HP 256GB SATA Value SSD Drive



Expand the storage capabilities of your desktop with the HP 256GB SATA Value SSD Drive¹, which includes TLC flash and the same reliability you already get from current from SSD drives.

Product number: W0U55AA

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

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 is not a measurement of higher performance.
- ³ 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.
- ⁴ Sold separately or as an optional feature.
- ⁵ HP BIOSphere Gen3 features may vary depending on the PC platform and configurations.
- ⁶ HP WorkWise smartphone app will soon be available as a free download on the App Store and Google Play.
- ⁷ Based on major competitors as of November 1, 2016 with smartphone managed PC security, performance and print features.
- ⁸ HP Manageability Integration Kit is planned to be available first quarter 2017 and can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>.
- ⁹ HP Client Security Suite Gen3 requires Windows and Intel® 7th Gen processors.
- ¹⁰ HP Multi Factor Authenticate requires 7th Generation Intel® Core™ processor, Intel® integrated graphics, and Intel® WLAN.
- ¹¹ 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 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.
- ¹² Financing and service offerings available through Hewlett-Packard Financial Services Company and its subsidiaries and affiliates (collectively HPFSC) in certain countries and is subject to credit approval and execution of standard HPFSC documentation. Subscriptions to use are available for 24 or 36 month terms. Rates and terms are based on customer's credit rating, offering types, services and/or equipment type and options. Not all customers may qualify. Not all services or offers are available in all countries. Other restrictions may apply. HPFSC reserves the right to change or cancel this program at any time without notice.

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 This system is preinstalled with Windows 7 Pro software and also comes with a license and media for Windows 10 Pro software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.
- ⁴ 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.
- ⁵ 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>.
- ⁶ 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.
- ⁷ 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.
- ⁸ TLC SSD in Federa Information Processing Standard
- ⁹ 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.
- ¹⁰ Intel® HD Graphics 530: integrated on 6th gen Core™ i7/i5/i3 processors
- ¹¹ Intel® HD Graphics 630: integrated on 7th gen Core™ i7/i5/i3 processors and Pentium® G4620, 4600, 4600T
- ¹² Intel® HD Graphics 610: integrated on Pentium® G4560, G4560T, Celeron™ G3950, G3930, G3930T
- ¹³ Sold separately or as an optional feature.
- ¹⁴ HP BIOSphere Gen 3 requires Intel® 7th generation processors.
- ¹⁵ Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming media players that also support Miracast. You can use Miracast to share what you're doing on your PC and present a slide show. For more information: <http://windows.microsoft.com/en-us/windows-8/project-wireless-screen-miracast>.
- ¹⁶ HP ePrint Driver 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). Requires optional broadband module. Broadband use requires separately purchased service contract. Check with service provider for coverage and availability in your area. Separately purchased data plans or usage fees may apply. Print times and connection speeds may vary.
- ¹⁷ EPEAT® registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country.
- ¹⁸ External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
- ¹⁹ HD-DVD discs cannot be played on this drive. No support for DVD-RAM. Actual speeds may vary. Don't copy copyright-protected materials. Double Layer discs can store more data than single layer discs. Discs burned with this drive may not be compatible with many existing single-layer DVD drives and players.
- ²⁰ Only available with 6th generation (Intel) processors.

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