



# HP 280 G5 Microtower PC

Maximize your investment

Take on your everyday work at an affordable price with the HP 280 MT. Get the reliable computing power you need while minimizing the total cost of ownership—now that's a smart investment.



HP recommends Windows 10 Pro.

- Windows 10 Pro<sup>1</sup>
- 2TB hard drive<sup>2</sup>

## Ready for work

- The HP 280 MT provides a powerful PC with the features you rely on to accomplish your everyday tasks.

## Progressive style

- The scalable and functional design of the HP 280 MT makes it easy to set up and use.

## Powered up processing

- Help optimize performance with a 9th Gen Intel® Core™ processor<sup>3</sup>, optional NVIDIA® or AMD discrete graphic support<sup>4</sup>, up to 32 GB DDR4 memory<sup>4</sup>, PCIe x1, PCIe x16, and PCI slots for future growth and support for optional PCIe NVMe storage.

## Help keep data safe

- Help protect your investment and your data with firmware or discrete TPM and a security lock slot.
- Help secure the future of your business. PCs from HP make the most of Windows 10 Pro to protect you from today's security threats and maximize management and productivity features for business.<sup>1</sup>
- Get fast and easy connections with optional Gigabit LAN and WLAN featuring 802.11 ac protocol and Bluetooth® 4.2 connectivity.<sup>5</sup>
- Support two independent displays with VGA and HDMI connectivity. Make connections to peripherals with eight USB ports on the HP 280 MT with four front USB 3.1 Gen1 ports, four rear USB 2.0 ports, an optional serial port<sup>4</sup>, PS/2 and parallel port.<sup>4</sup>
- Spend less time and get right to the updates you need with HP Support Assistant.
- Help secure your cabled mouse and keyboard with the integrated accessories cable lock on the HP 280 MT.

## HP 280 G5 Microtower PC Specifications Table



<b>Available Operating Systems</b>	Windows 10 Pro 64 – HP recommends Windows 10 Pro. <sup>1</sup> Windows 10 Home 64 <sup>1</sup> FreeDOS
<b>Processor family<sup>18</sup></b>	8th Generation Intel® Core™ i3 processor (i3-8100); 8th Generation Intel® Core™ i5 processor (i5-8400, i5-8500); 8th Generation Intel® Core™ i7 processor (i7-8700); 9th Generation Intel® Core™ i3 processor (i3-9100, i3-9300); 9th Generation Intel® Core™ i5 processor (i5-9400, i5-9500, i5-9600, i5-9400F, i5-9500F); 9th Generation Intel® Core™ i7 processor (i7-9700); Intel® Celeron® processor (G4930, G4900 are Windows 10 only); Intel® Pentium® processor (G5400, G5420, G5500, G5600, G5620 are Windows 10 only)
<b>Available Processors<sup>19,24,26,28,32</sup></b>	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™ i3-9300 with Intel® UHD Graphics 630 (3.7 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores) Intel® Core™ i5-8400 with Intel® UHD Graphics 630 (2.8 GHz base frequency, up to 4 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™ i5-9400 with Intel® UHD Graphics 630 (2.9 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores) Intel® Core™ i5-9400F (2.9 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores) Intel® Core™ i5-9500F (3 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores) 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 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 base frequency, 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 G5500 with Intel® UHD Graphics 630 (3.8 GHz base frequency, 4 MB cache, 2 cores) Intel® Pentium® Gold G5600 with Intel® UHD Graphics 630 (3.9 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 4.8 GHz with Intel® Turbo Boost Technology, 12 MB cache, 8 cores) supports Intel® vPro™ Technology
<b>Chipset<sup>32</sup></b>	Intel® B365
<b>Form factor</b>	Microtower
<b>Maximum memory</b>	32 GB DDR4-2666 SDRAM <sup>13</sup> Transfer rates up to 2666 MT/s.
<b>Memory slots</b>	2 DIMM
<b>Internal storage</b>	500 GB up to 2 TB 7200 rpm SATA <sup>3</sup> 128 GB up to 256 GB SATA SSD <sup>3</sup> 128 GB up to 512 GB M.2 PCIe® NVMe™ SSD <sup>3</sup>
<b>Optical drive<sup>4</sup></b>	HP 9.5 mm Slim DVD-ROM; HP 9.5 mm Slim DVD-Writer
<b>Available Graphics</b>	Integrated: Intel® HD Graphics 610; Intel® UHD Graphics 630 <sup>2,12</sup> Discrete: AMD Radeon™ 520 Graphics (1 GB GDDR5 dedicated); AMD Radeon™ R7 430 Graphics (2 GB GDDR5 dedicated); AMD Radeon™ RX 550X Graphics (4 GB GDDR5 dedicated); NVIDIA® GeForce® GT 730 (2 GB GDDR5 dedicated) <sup>2</sup>
<b>Audio</b>	Realtek ALC3601 codec, optional internal speaker, combo microphone/headphone jack
<b>Expansion slots</b>	1 full-height PCI; 1 PCIe x1; 1 PCIe x16; 2 M.2; One 3-in-1 SD card reader <sup>9,10,25,27</sup> (1 M.2 slot for WLAN and 1 M.2 2242/2280 slot for storage.)
<b>Ports and Connectors</b>	Front: 1 3-in-1 SD card reader; 1 headphone/microphone combo; 4 USB 3.1 Gen 1 <sup>31</sup> Rear: 1 HDMI; 1 line in; 1 line out; 1 power connector; 1 RJ-45; 1 VGA; 4 USB 2.0 <sup>22</sup> Internal: 1 parallel; 1 PS/2 <sup>23</sup> Optional: 1 4x Serial; 1 serial
<b>Input devices</b>	HP USB Keyboard; USB Business Slim Wired Keyboard; USB Wired Business Slim Antimicrobial Keyboard; PS/2 Business Slim Keyboard <sup>5,6</sup> ; HP PS/2 Mouse; HP USB Optical Mouse; USB Antimicrobial Mouse; Universal USB wired optical mouse; USB Hardened Mouse <sup>5,7,15</sup> ;
<b>LAN</b>	Integrated 10/100/1000 GbE
<b>WLAN<sup>11,32</sup></b>	Realtek 802.11a/b/g/n/ac (1x1) and Bluetooth® 4.2 Combo
<b>Drive Bays</b>	One 3.5" HDD; One 3.5" (2.5") HDD
<b>Environmental</b>	Operating temperature: 0 to 40°C; Operating humidity: 10 to 90% RH
<b>Available Software<sup>16</sup></b>	HP Audio Switch; HP Documentation; HP Setup Integrated OOB Win10; HP Support Assistant; HP System Event Utility; McAfee LiveSafe™; Buy Office (sold separately); HP JumpStarts
<b>Security management<sup>20,21,33</sup></b>	Integrated accessories cable lock; Lock slot; Trusted Platform Module (TPM) 2.0
<b>Power<sup>14</sup></b>	180 W internal power supply, up to 90% efficiency, active PFC; 310 W internal power supply, up to 90% efficiency, active PFC
<b>Dimensions</b>	6.12 x 11.93 x 13.28 in; 15.5 x 30.3 x 33.7 cm
<b>Energy efficiency compliance<sup>8</sup></b>	CCC; CE; CECP; CEL; ENERGY STAR® certified; EPEAT® 2019 registered where applicable; FCC; RoHS; SEPA; UL

## HP 280 G5 Microtower PC

### Accessories and services (not included)

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#### HP 8GB DDR4-2666 DIMM

Boost the capabilities of your HP Business Desktop PC and improve system performance and application responsiveness with low-power, high-speed DDR4 memory from HP.

**Product number: 3TK87AA**

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#### HP 8GB DDR4-2666 SODIMM

Boost the capabilities of your HP Business Desktop PC and improve system performance and application responsiveness with low-power, high-speed DDR4 memory from HP.

**Product number: 3TK88AA**

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#### 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**

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#### HP Keyed Cable Lock 10 mm



Help keep your notebook safe in the office and high-traffic areas by tethering it to a secure surface with the HP Master Keyed Cable Lock 10mm, designed specifically for ultra-thin profile notebooks.

**Product number: T1A62AA**

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#### HP Stereo USB Headset



Quickly and easily collaborate, chat online or listen to personal media with the crystal-clear sound and noise cancelling features of the sleek, lightweight HP Stereo USB Headset, designed to complement your professional workspace.<sup>1,2</sup>

**Product number: T1A67AA**

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## 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> For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36GB of system disk (for Windows 10) is reserved for system recovery software.
- <sup>3</sup> 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, branding and/or naming is not a measurement of higher performance.

## 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> HD content required to view HD images.
- <sup>3</sup> 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.
- <sup>4</sup> Optical drives are optional or add on features. Duplication of copyrighted material is strictly prohibited. Actual speeds may vary. Double Layer media compatibility will widely vary with some home DVD players and DVD-ROM drives.
- <sup>5</sup> Keyboards and mice are optional or add-on features.
- <sup>6</sup> USB Wired Business Slim Antimicrobial Keyboard: China only.
- <sup>7</sup> USB Antimicrobial Mouse: China only.
- <sup>8</sup> Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit [www.epeat.net](http://www.epeat.net) for more information.
- <sup>9</sup> Card sold separately.
- <sup>10</sup> (1) full-height PCI.
- <sup>11</sup> 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.
- <sup>12</sup> Integrated Intel Wi-Di software is available on select models only and requires separately purchased projector, tv or computer monitor with an integrated or external Wi-Di receiver. External Wi-Di receivers connect to the projector, tv or computer monitor via a standard VGA, HDMI cable, also sold separately.
- <sup>13</sup> Full availability of 4 GB or more of memory requires a 64-bit operating system. With Windows 32-bit operating systems, the amount of usable memory is dependent upon your configuration, so that above 3 GB all memory may not be available due to system resource requirements. 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>14</sup> All power supplies are not available in every region.
- <sup>15</sup> USB Hardened Mouse: India only.
- <sup>16</sup> McAfee LiveSafe™: 1 year subscription for LATM, 30 days for other regions except LATM.
- <sup>18</sup> 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® 8th generation and forward processors or provide any Windows 8 or Windows 7 drivers on <http://www.support.hp.com>
- <sup>19</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>20</sup> Security cable lock supported (sold separately).
- <sup>21</sup> TPM 2.0 support (dTPM): TPM feature will not be supported on machine pre-configured with FreeDOS. In some cases, machines pre-configured with Windows OS might ship with TPM turned off.
- <sup>22</sup> HDMI/VGA ports will be covered up when a non-internal graphics processor is configured on shipped machine.
- <sup>23</sup> PS/2 Port: optional.
- <sup>24</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>25</sup> One 3-in-1 SD card reader: Sold separately or as an optional feature.
- <sup>26</sup> Intel® Core™ i5-9400 is only available for specific regions.
- <sup>27</sup> 4 serial port: optional via PCIe slot, and only available for specific region.
- <sup>28</sup> 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.
- <sup>31</sup> (1) 3-in-1 SD card reader: Sold separately or as an optional feature.
- <sup>32</sup> 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>.
- <sup>33</sup> Physical cable lock for better cable management.

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