# HP Pro Tower 290 G9 PCI Desktop PC

## Maximize your investment

Take on your everyday work at an affordable price with the HP Pro Tower 290. Get the reliable computing power you need while reducing the total cost of ownership—now that's a smart investment.

### Powered-up processing

Keep up with daily tasks with performance of an Intel® Core™ processor[2], optional AMD, NVIDIA®, or Intel® discrete graphics[3], up to 64 GB DDR5 memory[3], and slots for future growth.

### Expansion for the future

Choose any combination of two HDDs or SSDs[3] with two bays and two full-height slots, and PCIe x16 and PCIe x1 slots, for future expandability. Featuring USB 3.0, USB 2.0, USB-C™[4] ports, HDMI, VGA, and a DisplayPort™[4], for broad compatibility with existing technology.

### Help keep data safe

Help protect your investment and your data with discrete TPM, HP DriveLock[5], and a physical security lock slot.[6] Additional security is provided by an integrated cable lock system to secure your cabled devices.



*Product image may differ from actual product

## Sustainability in action

### Help protect our shared future

The outer box of the HP Pro Tower 280 G9 is 92 percent sustainably sourced and recyclable. Molded Pulp cushions made from 100% recycled wood fiber and organic materials.[7]

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## Featuring

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**HP Recommends Windows 11 Pro for Business**
Work anywhere without compromising on performance with Windows 11 and HP collaboration, security, and connectivity technology.[1]

**Latest Intel® multi-core processor**
Configure your HP Pro Tower 280's CPU for the perfect combination of power, snappy performance, and value. With an Intel® Core® processor and up to 64 GB memory, handle multiple work tasks smoothly and reliably.[2,3]

**Help secure your drive**
Help keep unauthorized users from accessing data on your primary drive. Prevent your primary drive from running without entering a password using HP Drive Lock.[5]

**Simple PC management**
Spend less time and get right to the updates you need with HP Support Assistant.[9]

**Integrated security**
Help secure your PC with a physical security lock slot and an integrated accessory cable lock to secure your cabled mouse and keyboard on the HP Pro Tower 280.[6,7]

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## Technical specifications

| | |
|---|---|
| **Available Operating Systems** | Windows 11 Pro[1]<br>Windows 11 Home - HP recommends Windows 11 Pro for business[1]<br>Windows 10 Pro[1,2,20]<br>FreeDOS |
| **Processor family** | Intel® Pentium® processor<br>Intel® Celeron® processor<br>13th Generation Intel® Core™ i7 processor<br>13th Generation Intel® Core™ i5 processor<br>13th Generation Intel® Core™ i3 processor<br>12th Generation Intel® Core™ i7 processor<br>12th Generation Intel® Core™ i5 processor<br>12th Generation Intel® Core™ i3 processor<br>Intel® Core™ i3 14th generation processor<br>Intel® Core™ i5 14th generation processor<br>Intel® Core™ i7 14th generation processor |
| **Available Processors**[3,4,5,20] | Intel® Pentium® Gold G7400 with Intel® UHD Graphics (3.7 GHz P-core base frequency, 6 MB L3 cache, 2 P-cores, 4 threads)<br>Intel® Celeron® G6900 with Intel® UHD Graphics (3.4 GHz P-core base frequency, 4 MB L3 cache, 2 P-cores, 2 threads)<br>Intel® Core™ i5-12400 with Intel® UHD Graphics (2.5 GHz P-core base frequency, up to 4.4 GHz P-core Max Turbo frequency, 18 MB L3 cache, 6 P-cores, 12 threads)<br>Intel® Core™ i5-12500 with Intel® UHD Graphics (3.0 GHz P-core base frequency, up to 4.6 GHz P-core Max Turbo frequency, 18 MB L3 cache, 6 P-cores, 12 threads)<br>Intel® Core™ i7-12700 with Intel® UHD Graphics (1.6 GHz E-core base frequency, 2.1 GHz P-core base frequency, up to 3.6 GHz E-core Max Turbo frequency, up to 4.8 GHz P-core Max Turbo frequency, up to 4.9 GHz with Intel® Turbo Boost Technology, 25 MB L3 cache, 8 P-cores and 4 E-cores, 20 threads)<br>Intel® Core™ i5-13400 (1.8 GHz E-core base frequency, 2.5 GHz P-core base frequency, up to 3.3 GHz E-core Max Turbo frequency, up to 4.6 GHz P-core Max Turbo frequency, 20 MB L3 cache, 6 P-cores and 4 E-cores, 16 threads)<br>Intel® Core™ i3-13100 (4.5 GHz P-core base frequency, up to 3.4 GHz P-core Max Turbo frequency, 12 MB L3 cache, 8 P-cores, 8 threads) with Intel® UHD Graphics 730<br>Intel® Core™ i5-13600 (2.0 GHz E-core base frequency, 2.7 GHz P-core base frequency, up to 3.7 GHz E-core Max Turbo frequency, up to 5.0 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 20 threads)<br>Intel® Core™ i3-14100 (3.5 GHz P-core base frequency, up to 4.7 GHz P-core Max Turbo frequency, 12 MB L3 cache, 4 P-cores and 0 E-cores, 8 threads)<br>Intel® Pentium® 300 with Intel® UHD Graphics (3.9 GHz base frequency, 6 MB L3 cache, 1 core, 4 threads)<br>Intel® Core™ i7-14700 (1.5 GHz E-core base frequency, 2.1 GHz P-core base frequency, up to 4.2 GHz E-core Max Turbo frequency, up to 5.3 GHz P-core Max Turbo frequency, 33 MB L3 cache, 8 P-cores and 12 E-cores, 28 threads) with Intel® UHD Graphics 770, supports Intel® vPro® Technology<br>Intel® Core™ i7-13700 (1.5 GHz E-core base frequency, 2.1 GHz P-core base frequency, up to 4.1 GHz E-core Max Turbo frequency, up to 5.1 GHz P-core Max Turbo frequency, 30 MB L3 cache, 8 P-cores and 8 E-cores, 24 threads) with Intel® UHD Graphics 770, supports Intel® vPro® Technology<br>Intel® Core™ i5-14500 (1.9 GHz E-core base frequency, 2.6 GHz P-core base requency, up to 3.7 GHz E-core Max Turbo frequency, up to 5.0 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 20 threads) with Intel® UHD Graphics 770, supports Intel® vPro® Technology<br>Intel® Core™ i5-14400 (1.8 GHz E-core base frequency, 2.5 GHz P-core base requency, up to 3.5 GHz E-core Max Turbo frequency, up to 4.7 GHz P-core Max Turbo frequency, 20 MB L3 cache, 6 P-cores and 4 E-cores, 16 threads) with Intel® UHD Graphics 730<br>Intel® Core™ i5-13500 (1.8 GHz E-core base frequency, 2.5 GHz P-core base frequency, up to 3.5 GHz E-core Max Turbo frequency, up to 4.8 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 20 threads) with Intel® UHD Graphics 770, supports Intel® vPro® Technology |
| **Chipset**[3,20] | Intel® H670; Intel® H770 |
| **Product colour** | Jack black |
| **Form factor** | Tower |
| **Maximum memory** | 24 GB DDR5-5600 MT/s; 24 GB DDR5-4800 MT/s; 48 GB DDR5-5600 MT/s; 48 GB DDR5-4800 MT/s; [6]<br>Transfer rates up to 3200 MT/s.; Transfer rates up to 5600 MT/s. |
| **Memory slots** | 2 DIMM |
| **Internal storage** | up to 2 TB 7200 rpm SATA HDD[7,20,21]<br>256 GB up to 512 GB PCIe® NVMe™ M.2 SSD[7,20,21]<br>128 GB up to 128 GB PCIe® NVMe™ TLC M.2 SSD[7,20,21] |
| **Optical drive** | HP 9.5 mm Slim DVD-Writer [8] |
| **Available Graphics** | Integrated: Intel® UHD Graphics 730; Intel® UHD Graphics 770; Intel® UHD Graphics 710<br>Discrete: NVIDIA® T400 4 GB; AMD Radeon™ RX 6400 Graphics (4 GB GDDR6 dedicated); AMD Radeon™ RX 6600 XT Graphics (8 GB GDDR6 dedicated); NVIDIA® GeForce RTX™ 3050 (8 GB GDDR6 dedicated); Intel® Arc™ A380 Graphics (6 GB GDDR6 dedicated); AMD Radeon™ RX 6300 Graphics (2 GB GDDR6 dedicated); NVIDIA® GeForce RTX™ 4060 (8 GB GDDR6 dedicated); NVIDIA® GeForce RTX™ 5060 (8 GB GDDR7 dedicated)[20,24] |
| **Audio** | Realtek ALC3867 codec, universal audio jack with CTIA headset support, audio line-out rear ports (3.5 mm), multi-streaming capable |
| **Expansion slots** | 1 full-height PCI; 2 M.2; 1 PCIe 3 x1; 1 PCIe 4 x16 [9,10,11] (1 M.2 slot for WLAN and 1 M.2 2242/2280 slot for storage.) |
| **Ports and connectors** | Front: 2 USB Type-A 10Gbps signaling rate, 4 USB Type-A 5Gbps signaling rate, 1 headphone/microphone combo (systems with 12th Generation Intel® Core™ processors); 2 USB Type-A 10Gbps signaling rate, 2 USB Type-A 5Gbps signaling rate, 1 USB Type-C®, 1 USB 2.0 Type-A, 1 headphone/microphone combo (systems with 13th Generation Intel® Core™ processors); 2 USB Type-A 10Gbps signaling rate, 3 USB Type-A 5Gbps signaling rate, 1 USB Type-C®, 1 headphone/microphone combo (systems with Intel® Core™ 14th Generation processors) ;<br>Rear: 2 USB 2.0 Type-A, 1 HDMI, 1 DisplayPort™, 1 RJ-45, 1 power connector, 1 serial, 1 line in, 1 line out (systems with 13th Generation Intel® Core™ processors); 2 USB 2.0 Type-A, 1 HDMI, 1 DisplayPort™, 1 VGA, 1 RJ-45, 1 power connector, 1 serial, 1 line in, 1 line out (systems with Intel® Core™ 14th Generation processors); 2 USB 2.0 Type-A, 1 HDMI, 1 VGA, 1 RJ-45, 1 power connector, 1 serial, 1 line in, 1 line out (systems with Intel® Core™ 12th and 13th Generation processors)[11,20] ;<br>Optional Ports: 1 4x serial; 1 parallel; 1 PS/2; 1 serial; 2 USB 2.0 Type-A; 1 3-in-1 SD card reader[20,23] |
| **Input devices** | HP 125 Wired Keyboard; HP 125 Wired Mouse |
| **Communications** | LAN: Integrated 10/100/1000M GbE ;<br>WLAN: Realtek RTL8821CE-CG 802.11a/b/g/n/ac (1x1) Wi-Fi® and Bluetooth® 4.2 wireless card; Realtek Wi-Fi 6 RTL8852BE 802.11a/b/g/n/ax (2x2) and Bluetooth® 5.3 wireless card; Realtek Wi-Fi 6 RTL8852BE (2x2) and Bluetooth® 5.3 wireless card with 2 internal antennas; Realtek RTL8822CE-CG 802.11 a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 wireless card |
| **Drive Bays** | One 3.5" HDD; Two 3.5" HDD [20,22] |
| **Environmental** | Operating temperature: 0 to 40°C; Operating humidity: 10 to 90% RH |
| **Software** | HP Audio Switch; HP Documentation; HP Setup Integrated OOBE Win10; HP Support Assistant; HP System Event Utility; McAfee LiveSafe™; Buy Office (sold separately); HP JumpStarts; Xerox® DocuShare® 90 day free trial offer[12,13,20] |
| **Security management** | Padlock loop; Trusted Platform Module (TPM) 2.0; Integrated accessories cable lock; Slim cable lock |

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| **Power** | 180 W internal power supply, up to 90% efficiency, active PFC; 500 W internal power supply, up to 90% efficiency, active PFC; 260 W internal power supply, up to 92% efficiency, active PFC; 350 W internal power supply, up to 90% efficiency, active PFC[17] |
| **Dimensions** | 15.5 x 30.3 x 33.7 cm; (System dimensions may fluctuate due to configuration and manufacturing variances.);<br>28.7 x 40 x 49.9 cm (Package) |
| **Weight** | 4.7 kg;<br>(Exact weight depends on configuration.) |
| **Ecolabels** | CECP; EPEAT® registered; SEPA[18] |
| **Energy star certified** | ENERGY STAR® certified |
| **Sustainable impact specifications** | 15% post-consumer recycled plastic; 80 Plus® Gold power supplies available[19] |
| **Warranty** | 1 year (1/1/1) limited warranty includes 1 year of parts, labor and on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply. |

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## Accessories and services (not included)

| | | |
|---|---|---|
| HP 125 Wired Keyboard |  | Think how much you use your keyboard. That's why we've taken the time to design a keyboard that is comfortable to use so you can work productively every day - and all day if necessary.<br>**Product number: 266C9AA**<br>[1] Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 EPEAT standard.<br>[2] Select household wipes can be safely used to clean HP Elite Presenter Mouse, HP Premium keyboard (wireless and USB) and HP desktop wired 320 KB/Mouse up to 1,000 wipes: See wipe manufacturer's instructions for disinfecting and the HP cleaning guide for HP tested wipe solutions at How to Sanitize Your HP Device Whitepaper: http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-7610ENW |
| HP 225 Wired Mouse and Keyboard Combo |  | Think how much you use your mouse and keyboard. That's why we've taken the time to design products that are comfortable to use so you can work productively every day - and all day if necessary.<br>**Product number: 286J4AA** |
| HP Stereo USB Headset G2 |  | Plug right in and get ready to speak and hear clearly all day. With noise-cancelling, comfortable design, and easy adjustment, your sound comfort will carry you from call to call without interference or frustration.<br>**Product number: 428K6AA**<br>[1] Google tested to meet Chromebook compatibility standards.<br>[2] This product works with devices capable of running the latest version of Chrome OS and has been certified to meet Google's compatibility standards. Google is not responsible for the operation of this product or its compliance with safety requirements. Chromebook and the Works With Chromebook badge are trademarks of Google LLC. |

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## Footnotes

### 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 is automatically updated and enabled. High speed internet and Microsoft account required. 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, branding and/or naming is not a measurement of higher performance.
[3] Optional feature that must be configured at the time of purchase.
[4] USB-C™ port and DisplayPort™ only available with 13th Gen PCI support.
[5] Solenoid lock and cable required and sold separately.
[6] Solenoid lock and cable required and sold separately.
[7] 92 percent outer box packaging made from sustainably sourced certified and recycled fibers. Molded Pulp cushions made from 100% recycled wood fiber and organic materials.
[9] Internet access required.

### Specification 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 is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com .
[2] This system is preinstalled with Windows 10 Pro software and also comes with a license for Windows 11 Pro software and provision for recovery 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.
[3] Intel vPro® requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or Wi-Fi 6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vPro® Essentials and Enterprise vary. See http://intel.com/vpro .
[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® 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.
[6] 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 3200 MT/s; actual data rate is determined by the system's configured processor. See processor specifications for supported memory data rate.
[7] For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows) of disk is reserved for system recovery software.
[8] 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.
[9] Card sold separately.
[10] 4 serial port: optional via PCIe slot, and only available for specific region.
[11] HDMI/VGA ports will be covered up when a non-internal graphics processor is configured on shipped machine.
[12] McAfee LiveSafe™: subscription required.
[13] Simply sign up and start using Xerox® DocuShare® Go. No credit card. No obligation. Data will become unavailable unless a subscription is entered before the end of the 90 day free trial period. See www.xerox.com/docusharego for details.
[14] Security cable lock supported (sold separately).
[15] TPM feature will be supported on machine pre-configured with FreeDOS, and will be default set as enabled in BIOS setup menu if the machine is dTPM, but will be default set as disabled in BIOS setup menu if the machine is fTPM.
[16] Physical cable lock for cable management.
[17] All power supplies are not available in every region.
[18] Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information.
[19] Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.
[20] Available on select skus only.
[21] Starting November 1, 2023, HP PCs with Windows require Windows to be installed on SSD. HDD can only be configured as additional data drives and not as the boot drive.
[22] One 3.5" HDD only for systems with 14th Generation Intel® Core™ processors.
[23] 3-in-1 SD card reader only available with 12th Generation Intel® Core™ processors.
[24] NVIDIA® Quadro® T400, only available for specific models.

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