Data sheet

HP Pro Tower 290 G9 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.



*Product image may differ from actual product

HP recommends Windows 11 Pro for business

Powered-up processing

- Keep up with daily tasks with performance from up to a 13th Gen Intel® Core™ processor[2], optional AMD, NVIDIA®, or Intel® discrete graphics[3], up to 64GB DDR4 memory[3], and slots for future growth.

Expansion for the future

- Two bays and two full-height slots, including PCIe x16 and PCIe x1 slots, provide expandability for the future. Configurable USB ports[3] and legacy ports[3] help ensure broad compatibility with existing technology.

Help keep data safe

- Help protect your investment and your data with firmware TPM, HP Drive Lock[4], and a physical security lock slot.[5] Additional security is provided by an optional intrusion sensor[6] and an integrated cable lock system to secure your cabled devices.

Help protect our shared future

- The outer box of the HP Pro Tower 290 G9 is 92 percent sustainably sourced and recyclable. Molded Pulp cushions made from 100% recycled wood fiber and organic materials.[7]

- Work anywhere without compromising on performance with Windows 11 and HP collaboration, security, and connectivity technology.[1]
- Configure your HP Pro Tower 290's CPU for the perfect combination of power, snappy performance, and value. With up to a 13th Gen Intel® Core™ i7 processor and up to 64GB memory, handle multiple work tasks smoothly and reliably.[2,3]
- 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.[4]
- Spend less time and get right to the updates you need with HP Support Assistant.[9]
- Help secure your PC with a physical security lock slot, an optional intrusion sensor, and an integrated accessory cable lock to secure your cabled mouse and keyboard on the HP Pro Tower 290.[5,6]

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HP Pro Tower 290 G9 Desktop PC Specifications Table





*Product image may differ from actual product

Available Operating Systems	Windows 11 Pro[1] Windows 11 Home – HP recommends Windows 11 Pro for business[1] Windows 10 Pro (available through downgrade rights from Windows 11 Pro)[1,2,20] FreeDOS
Processor family[20]	Intel® Pentium® processor; Intel® Celeron® processor; 13th Generation Intel® Core™ i7 processor; 13th Generation Intel® Core™ i5 processor; 13th Generation Intel® Core™ i3 processor; 12th Generation Intel® Core™ i7 processor; 12th Generation Intel® Core™ i5 processor; 12th Generation Intel® Core™ i3 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); Intel® Celeron® G6900 with Intel® UHD Graphics (3.4 GHz P-core base frequency, 4 MB L3 cache, 2 P-cores, 2 threads); 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), supports Intel® vPro® Technology; 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); Intel® Core™ i3-12100 with Intel® UHD Graphics (3.3 GHz P-core base frequency, up to 4.3 GHz P-core Max Turbo frequency, 12 MB L3 cache, 4 P-cores, 8 threads); 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), supports Intel® vPro® Technology; 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 and 0 E-cores, 8 threads); 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); 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), supports Intel® vPro® Technology; 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), supports Intel® vPro® Technology
Chipset[3]	Intel® H670
Form factor	Tower
Maximum memory	64 GB DDR4-3200 SDRAM [6] Transfer rates up to 3200 MT/s.
Memory slots	2 DIMM
Internal storage	500 GB up to 2 TB 7200 rpm SATA HDD[7,20,21] 256 GB up to 512 GB PCIe® NVMe™ M.2 SSD[7,21] 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] (##opticaldriveavailnote##)
Available Graphics	Integrated: Intel® UHD Graphics 730; Intel® UHD Graphics 770; Intel® UHD Graphics 710 Discrete: AMD Radeon™ RX 6400XT Graphics (4 GB GDDR6 dedicated); NVIDIA® Quadro® T400 (4 GB GDDR6 dedicated); AMD Radeon™ RX 6600 XT Graphics (8 GB GDDR6 dedicated); NVIDIA® GeForce RTX™ 3050 (8 GB GDDR6 dedicated); AMD Radeon™ RX 6300 Graphics (2 GB GDDR6 dedicated); NVIDIA® GeForce RTX™ 4060 (8 GB GDDR6 dedicated)[20]
Audio	Realtek ALC3867 codec, universal audio jack with CTIA headset support, audio line-out rear ports (3.5 mm), multi-streaming capable
Expansion slots	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: 4 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo ; Rear: 1 HDMI; 1 line in; 1 line out; 1 power connector; 1 RJ-45; 1 VGA; 4 USB 2.0[11] ; Optional Ports: 1 4x serial; 1 parallel
Input devices	HP 125 Wired Keyboard; HP 125 Wired Mouse;
Communications	LAN: Integrated 10/100/1000M GbE ; WLAN: Realtek RTL8821CE 802.11a/b/g/n/ac (1x1) Wi-Fi® and Bluetooth® 4.2 wireless card; Realtek RTL8822CE 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 wireless card; Realtek Wi-Fi 6 RTL8852BE 802.11a/b/g/n/ax (2x2) and Bluetooth® 5.3 wireless card[20] ;
Drive Bays	Two 3.5" HDD
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;[14,15,16]
Power	180 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.)
Weight	4.7 kg; (Exact weight depends on configuration.)
Ecolabels	CECP; EPEAT® registered; SEPA[18]
Energy star certified (series fixed)	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 Mouse



Think how much you use your mouse. That's why we've taken the time to design a wired mouse that is comfortable to use so you can work productively every day - and all day if necessary.
Product number: 265A9AA
[1] External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
[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.

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.
Product number: 266C9AA
[1] Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 EPEAT standard.
[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 16 GB 3200MHz DDR4 Memory

If you are using a lot of memory-intensive applications and notice your laptop is running slow or crashing, consider adding 16GB 3200MHz DDR4 Memory. It's an easy way to boost the performance and user experience from your current HP laptop PC.
Product number: 286J1AA
[1] 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.

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.
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.
Product number: 428K6AA
[1] Google tested to meet Chromebook compatibility standards.
[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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Messaging Footnotes

[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] HP Drive Lock is not supported on NVMe drives.
[5] Solenoid lock and cable required and sold separately.
[6] HP Tamper Lock must be enabled by the customer or your administrator.
[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.
[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.
[9] Internet access required.

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 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.

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