ProductSheet
HP Z1 G8 Tower Desktop PC (4D486PA)

Step up to the most affordable pro-certified Z desktop.

Pro-grade performance is now within reach with a desktop built for designing, editing and even gaming. From 2D and 3D CAD to entry VR content creation, gain speed and efficiency across your workflows. Go beyond a commercial PC with a desktop certified for select professional software applications.

HP recommends Windows 10 Pro for business

Performance options for what you do.
Accelerate your workflow and multitask with ease with more performance for multi-threaded apps. Choose from the latest graphics and Intel® processor options.

Certified to fly with professional apps
Work confidently knowing your desktop is tested and certified for select professional apps. We've worked closely with software providers on apps like AutoCAD®, SOLIDWORKS® and Revit® so you get seamless, reliable performance across your workflow.[3]

Industry-leading security
Hardened security features come standard on every Z1 Tower, for an always-on, always-acting, resilient defense. From the BIOS to the browser, above and below the OS, these constantly evolving solutions help protect your PC from threats.

Featuring

Windows 10 Pro 64
Work without compromising on performance or security with Windows 10 Pro, powered by HP's collaboration and connectivity technology.

Intel® Core™ i7 processor
Run several CPU–heavy programs simultaneously without sacrificing performance with an Intel® Core™ i7 processor. [1]

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Specifications

Form factor	Tower
Operating system	Windows 10 Pro 64
Processor family	11th Generation Intel® Core™ i7 processor
Processor	Intel® Core™ i7-11700 (2.5 GHz base frequency, up to 4.9 GHz with Intel® Turbo Boost Technology, 16 MB L3 cache, 8 cores)[6,7]
Chipset	Intel® Q570
Memory	32 GB DDR4-2933 MHz RAM (1 x 32 GB)
Memory Slots	4 DIMM
Internal Storage	512 GB PCIe® NVMe™ SSD
Hard drive (2nd)	1 TB 7200 rpm SATA HDD
Internal drive bays	One 2.5" HDD; Two 3.5" HDD
External drive bays	One slim ODD; One 5.25" ODD
Optical drive	Not included
Graphics	Discrete
Graphics (discrete)	NVIDIA® GeForce RTX™ 3070 (8 GB GDDR6 dedicated)
Graphics	Integrated
Graphics (integrated)	Intel® UHD Graphics 750
Audio features	Realtek ALC3205 codec, universal audio jack with CTIA and OMTP headset support
Minimum dimensions (W x D x H)	37 x 30.8 x 16.8 cm
Minimum dimensions (W x D x H)	14.57 x 12.13 x 6.61 in
Weight	5.95 kg *(Exact weight depends on configuration.)*
Weight	13.11 lb *(Exact weight depends on configuration.)*
Keyboard	HP 125 Wired Keyboard
Pointing device	HP 125 Wired Mouse
Ports	2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 universal audio jack; 2 SuperSpeed Type-A USB 5Gbps signaling rate (1 charging); 1 SuperSpeed USB Type-C® 20Gbps signaling rate (1 charging)
Expansion slots	1 M.2 2230; 2 PCIe 3 x1; 1 PCIe 3 x16 (wired as x4); 2 M.2 2280; 1 PCIe 4 x16 *(1 M.2 2230 slot for WLAN and 2 M.2 2280 slots for storage)*
Ports	1 audio-out; 1 power connector; 1 RJ-45; 2 DisplayPort™ 1.4; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 5Gbps signaling rate; 3 USB Type-A 480Mbps signaling rate
Package dimensions (W x D x H)	29.9 x 47.8 x 51.7 cm
Package weight	11.34 kg
Power	550 W 92% efficient, wide-ranging, active PFC
Management features	HP Client Catalog (download); HP Cloud Recovery; HP Driver Packs; HP Management Integration Kit for Microsoft System Center Configuration Management Gen4; HP System Software Manager (download); HP BIOS Configuration Utility (download); HP Image Assistant (download); Ivanti Management Suite (download); HP Client Management Script Library (download)[18,22,23,24]
Sustainable impact specifications	Ocean-bound plastic in speaker enclosure; 45% post-consumer recycled plastic; 5% ITE-derived closed loop plastic; Bulk packaging available; 80 Plus® Platinum power supplies available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable
Security management	HP Power On Authentication; Power-on password (via BIOS); SATA port disablement (via BIOS); Setup password (via BIOS); Support for chassis padlocks and cable lock devices; USB enable/disable (via BIOS); Serial enable/disable (via BIOS); HP Sure Click; Windows Defender; HP Sure Sense; Trusted Platform Module TPM 2.0 Embedded Security Chip shipped with Windows 10. (Common Criteria EAL4+ Certified); HP Client Security Manager Gen7; HP Sure Start Gen7; HP Sure Run Gen4; HP Sure Recover Gen4; HP Tamper Lock[25,26,27,28,29,30,31]
Software included	HP Jumpstart; HP Noise Cancellation Software; HP Support Assistant; Buy Office (sold separately); HP Privacy Settings; HP Desktop Support Utilities; HP Setup Integrated OOBE[21]

Top Recommended Displays, Accessories and Services

No Top Recommended Displays, Accessories and Services

Messaging Footnotes

[1] 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] Third party software sold separately.

Technical Specifications Footnotes

[6] 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.

[7] Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost/ for more information.

[18] 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 .

[21] HP Support Assistant: Requires Windows and Internet access.

[22] HP Driver Packs: Not preinstalled, however available for download at http://www.hp.com/go/clientmanagement

[23] HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement .

[24] Ivanti Management Suite subscription required.

[25] HP Client Security Manager Gen6 requires Windows and is available on select HP Pro and Elite PCs.

[26] Windows Defender Opt in Windows 10 and internet connection required for updates.

[27] HP Sure Start Gen7 is available on select HP PCs and workstations. See product specifications for availability.

[28] HP Sure Sense requires Windows 10.

[29] HP Sure Run Gen4 is available on select Windows 10 based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors.

[30] HP Sure Recover Gen4 is available on select HP PCs and requires an open network connection. Not available on platforms with multiple internal storage drives. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.

[31] HP Sure Click is available on most HP PCs 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.