



HP Z1 G8 Tower Desktop PC (2N2F6EA)



Overview

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.

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.

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.

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]

Access the power of your Z1 from anywhere.

Tap into the power of your Z1 Tower from anywhere and on almost any device with HP ZCentral Remote Boost.[4] Get fast responsiveness and exceptional image quality on demanding projects. Seamlessly collaborate with dispersed teams, even on 3D models.

Features

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]

[3] Third party software sold separately.

[4] HP ZCentral Remote Boost does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and laptops without an additional license purchase. When you purchase a Z device, you get an embedded license. With non-Z sender devices, it is a perpetual or floating license. ZCentral Remote Boost requires a Windows (10 or 7 SP2), RHEL (6, 7 or 8), UBUNTU 18.04 LTS, or HP ThinPro operating system. MacOS (10.13 or newer) operating system is only supported on the receiver side. Requires network access. The software is available for download at hp.com/ZCentralRemoteBoost.

[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.

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	16 GB DDR4-2933 MHz RAM (1 x 16 GB)
Memory Slots	4 DIMM
Internal Storage	512 GB PCIe® NVMe™ SSD
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	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 <i>(Exact weight depends on configuration.)</i>
Weight	13.11 lb <i>(Exact weight depends on configuration.)</i>
Keyboard	HP USB wired keyboard
Pointing device	HP Wired 320M 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 <i>(1 M.2 2230 slot for WLAN and 2 M.2 2280 slots for storage)</i>
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

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 OOB^[21]

Additional specifications

ECC memory	No
Graphic card footnote number	[16,17,39]
Graphics	Discrete
Graphics (discrete)	NVIDIA® GeForce RTX™ 3070 (8 GB GDDR6 dedicated)
Graphics card brand	NVIDIA®
Graphics card family	GeForce
Graphics card memory size	8
Graphics card memory size uom	GB
Graphics card memory type	GDDR6
I/O Port location	Rear
I/O Port location	Front
Legal tagline	HP recommends Windows 10 Pro for business
MDA key selling point	Windows 10 Pro or other operating systems available
Memory and storage	16 GB memory; 512 GB SSD storage
Memory layout (slots & size)	1 x 16 GB
Memory module type	DIMM
Memory size	16
Memory size uom	GB
Memory speed	2933
Memory speed uom	MHz
Memory type	DDR4
Model Number	RTX™ 3070
Number of memory slots	1
Package dimensions (W x D x H)	11.77 x 18.82 x 20.35 in
Package weight	24.98 lb
Processor Brand	Intel®
Processor cache	16 MB L3
Processor core	8
Processor family	Core™ i7
Processor frequency technology	Intel® Turbo Boost Technology
Processor generation	11th Generation
Processor maximum frequency	4.9
Processor maximum frequency uom	GHz

Processor model	11700
Processor threads	16
Standard memory note	Transfer rates up to 2933 MT/s.
Storage capacity 01	512
Storage capacity uom 01	GB
Storage interface 01	PCIe®
Storage interface protocol 01	NVMe™
Storage type	SSD
Storage type 01	SSD

[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.

Accessories

PC Drives and Storage

★ : Recommended

PC Solid State Drives

1TB PCIe 4x4 NVMe TLC SSD	406L7AA
512GB PCIe 4x4 NVMe TLC SSD	406L8AA
HP PCIe NVMe TLC 256GB SSD M.2 Drive	1CA51AA
HP PCIe NVMe TLC 512GB SSD M.2 Drive	X8U75AA

PC SATA Hard Drives

HP 1TB 7200rpm SATA (NCQ/Smart IV) 6Gbp/s Hard Drive	QK555AA
HP 1TB 7200rpm SATA (NCQ/Smart IV) 6Gbp/s Hard Drive	QK555AT
HP 500GB 7200rpm SATA (NCQ/Smart IV) 6.0 Gbp/s Hard Drive	QK554AA
HP 500GB 7200rpm SATA (NCQ/Smart IV) 6.0 Gbp/s Hard Drive	QK554AT

PC DVD Drives

HP 9.5mm G3 8/6/4 SFF G4 400 SFF/MT DVD Writer	1CA53AA
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Graphics Cards

Graphics Cards

AMD Radeon R7 430 2GB 2 DisplayPort Card	5JW81AA
AMD Radeon R7 430 2GB DisplayPort VGA Card	5JW82AA
AMD Radeon R7 430 2GB DisplayPort VGA Card	5JW82AT

Keyboards/Mice and Input Devices

Keyboards

HP 125 Wired Keyboard	266C9AA
HP Business Slim Smartcard Keyboard	Z9H48AA
HP Business Slim Smartcard Keyboard	Z9H48AT
HP PS/2 Slim Business Keyboard	N3R86AA
HP PS/2 Slim Business Keyboard	N3R86AT
HP USB Keyboard for PC	QY776AA
HP USB Keyboard for PC	QY776AT
HP USB Premium Keyboard	Z9N40AA

HP USB Premium Keyboard	Z9N40AT
HP Wired Desktop 320K Keyboard	9SR37AA
HP Wired Desktop 320K Keyboard	9SR37ET
HP Wired Desktop 320K Keyboard	9SR37UT
HP Wireless Premium Keyboard	Z9N41AA
HP Wireless Premium Keyboard	Z9N41AT

Mice

HP 125 Wired Mouse	265A9AA
HP Business Mouse Pad	AT485AA
HP PS/2 Mouse	QY775AA
HP USB Fingerprint Mouse	4TS44AA
HP USB Fingerprint Mouse	4TS44ET
HP USB Fingerprint Mouse	4TS44UT
HP USB Premium Mouse	1JR32AA
HP USB Premium Mouse	1JR32UT
HP Wired Desktop 320M Mouse	9VA80AA
HP Wired Desktop 320M Mouse	9VA80ET
HP Wired Desktop 320M Mouse	9VA80UT
HP Wireless Premium Mouse	1JR31AA
HP Wireless Premium Mouse	1JR31UT

Keyboard and Mouse Kits

HP 225 Antimicrobial Wired Mouse and Keyboard Combo	286K3AA
HP 225 Wired Mouse and Keyboard Combo	286J4AA
HP USB Keyboard and Mouse Healthcare Edition	1VD81AA
HP USB PS2 Washable Keyboard and Mouse	BU207AA
HP USB PS2 Washable Keyboard and Mouse	BU207AT
HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
HP Wired Desktop 320MK Mouse and Keyboard	9SR36ET
HP Wired Desktop 320MK Mouse and Keyboard	9SR36UT
HP Wireless Business Slim Keyboard and Mouse	N3R88AA

Memory

DDR4 Memory

HP 16GB DDR4-3200 DIMM	13L74AA
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HP 16GB DDR4-3200 DIMM	13L74AT
HP 32GB DDR4-3200 DIMM	13L72AA
HP 32GB DDR4-3200 DIMM	13L72AT
HP 4GB DDR4-3200 DIMM	13L78AA
HP 4GB DDR4-3200 SODIMM	13L78AT
HP 8GB DDR4-3200 DIMM	13L76AA
HP 8GB DDR4-3200 DIMM	13L76AT

Expansion Solution and Controller Cards

Port Adapters

HP 800/600/400 G3 Serial/ PS/2 Adapter	1VD82AA
HP DisplayPort Port Flex IO v2	13L54AA
HP DisplayPort Port Flex IO v2	13L54AT
HP HDMI Port Flex IO v2	13L55AA
HP HDMI Port Flex IO v2	13L55AT
HP PCIe x1 Parallel Port Card	N1M40AA
HP PCIe x1 Parallel Port Card	N1M40AT
HP Serial Port Flex IO v2	13L56AA
HP Serial Port Flex IO v2	13L56AT
HP Type-C USB 3.1 Gen2 Port Flex IO v2	13L59AA
HP USB to Serial Port Adapter	J7B60AA
HP VGA Port Flex IO v2	13L53AA

Audio/Multimedia and Communication Devices

Headsets

HP Business Headset v2	T4E61AA
HP Business Headset v2	T4E61AT
HP Stereo 3.5mm Headset	T1A66AA

Speakers

HP S101 Speaker Bar	5UU40AA
HP S101 Speaker Bar	5UU40AT

Security and Protection

PC Locks

HP Business PC Security Lock v3 Kit	3XJ17AA
HP Business PC Security Lock v3 Kit	3XJ17AT
HP Sure Key Cable Lock	6UW42AA
HP Sure Key Cable Lock	6UW42UT

Cables/Cable Kits/Cable Adapters

Audio and Video Cables

HP DisplayPort Cable Kit	VN567AA
HP DisplayPort To VGA Adapter	AS615AA
HP DisplayPort To VGA Adapter	AS615AT
HP DisplayPort To VGA Adapter	F7W97AA
HP DisplayPort to DVI-D Adapter	FH973AA
HP DisplayPort to DVI-D Adapter	FH973AT
HP DisplayPort to HDMI True 4K Adapter	2JA63AA

PC Cable Options

HP HDMI Standard Cable	T6F94AA
HP HDMI Standard Cable	T6F94AT

Cable Adapters

HP USB-C to DP Adapter	N9K78AA
HP USB-C to DP Adapter	N9K78UT
HP USB-C to HDMI Adapter	4SH07AA

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