



HP Z1 G6 Entry Tower Workstation (259G4EA)



Overview

Step up to the most affordable pro-certified Z

World-class performance is now within reach with a desktop certified for select professional software applications. From 2D/3D CAD design to entry VR content creation, gain speed and efficiency across your professional workflows. Go beyond a PC. Upgrade to a Z.

Pick the latest components for what you do

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

HP's most secure workstation.

Advanced security features come standard on every Z1 Entry Tower. System safeguards like the industry's first self-healing BIOS help lock your device, data and identify down tight.[5]

Certified to fly with professional apps

Work confidently knowing your desktop is certified for select professional apps. We've worked closely with software providers so you get seamless performance across your workflow.[4]

Features

Windows 10 Pro for Workstations 64

Work without compromising on performance or security with Windows 10 Pro for Workstations, powered by HP's collaboration and connectivity technology.^[1]

Intel® Core™ i7 processor

Run several CPU-heavy programs simultaneously without sacrificing performance with an Intel® Core™ i7 processor.^[2]

[4] Third party software sold separately. Certifications are still pending.

[5] Based on HP's unique and comprehensive security capabilities at no additional cost on HP Workstations with Windows and 8thGen and higher Intel® processors or AMD Ryzen™ 4000 processors and higher.

[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 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>.

[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.

Specifications

Form factor	Tower
Operating system	Windows 10 Pro <i>(Device comes with Windows 10 and a free Windows 11 upgrade or may be preloaded with Windows 11. Upgrade timing may vary by device. Features and app availability may vary by region. Certain features require specific hardware (see Windows 11 Specifications).)</i>
Processor family	10th Generation Intel® Core™ i7 processor
Processor	Intel® Core™ i7-10700 (2.9 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 16 MB L3 cache, 8 cores) ^[6,7]
Chipset	Intel® Q470 (vPro®)
Memory	32 GB DDR4-2666 MHz RAM (2 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
Graphics	Integrated
Graphics (integrated)	Intel® UHD Graphics
Audio	Conexant CX20632 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
Weight	9.86 kg <i>(Exact weight depends on configuration.)</i>
Keyboard	HP USB wired keyboard
Pointing device	HP USB wired optical mouse
Ports	2 SuperSpeed USB Type-A 10Gbps signaling rate; 2 SuperSpeed USB Type-A 5Gbps signaling rate; 1 SuperSpeed USB Type-C® 10Gbps signaling rate (15W output, DisplayPort™ 1.2)
Expansion slots	1 M.2 2230; 1 PCIe 3 x16; 2 PCIe 3 x1; 1 PCIe 3 x16 (wired as x4); 2 M.2 2230/2242 <i>(1 M.2 slot for WLAN and 2 M.2 2230/2242 slot for storage)</i>
Ports	1 audio-in/out; 1 power connector; 1 RJ-45; 2 DisplayPort™ 1.4; 2 SuperSpeed USB Type-A 5Gbps signaling rate; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 2 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
Network interface	Integrated Intel® I219LM GbE LOM

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 Image Assistant Gen5 (download); HP BIOS Configuration Utility (download) [22,23,24]

Sustainable impact specifications

Low halogen

Security management

HP Secure Erase; 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; HP Sure Sense; HP Sure Start Gen6; HP Sure Run Gen3; HP Sure Recover Gen3; HP DriveLock and Automatic DriveLock; HP BIOSphere Gen6; Trusted Platform Module TPM 2.0 Embedded Security Chip shipped with Windows 10. (Common Criteria EAL4+ Certified); HP Client Security Manager Gen6^[25,26,27,28,29,30,31,32,33]

Software included

HP Jumpstart; HP Noise Cancellation Software; HP Support Assistant; Buy Office (sold separately); ZCentral Remote Boost; HP Privacy Settings; HP Desktop Support Utilities^[21]

UPC number

(A2N) 195161298264; (AB6) 195161298271; (AB8) 195161298295; (AB9) 195161298288; (ABB) 195161298301; (ABD) 195161298318; (ABE) 195161298349; (ABF) 195161298325; (ABH) 195161298332; (ABN) 195161298356; (ABT) 195161298363; (ABU) 195161298370; (ABV) 195161298387; (ABY) 195161298394; (ABZ) 195161298400; (ACB) 195161298417; (ACQ) 195161298424; (AK8) 195161298448; (AKC) 195161299292; (AKD) 195161299308; (BCM) 195161299315; (UUG) 195161299322; (UUW) 195161299346; (UUZ) 195161299353

Manufacturer Warranty

3 year (3-3-3) limited warranty and service offering includes 3 years of parts, labor and on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.

Additional specifications

Additional storage	5-in-1 SD card reader (optional)
Datasheet photo 1	AHID/e375151b807ef6502c7c4413aef9807c2dfa9778
Datasheet photo 2	Publication logos/HP_Care_Pack_RGB_blue_NT.jpg
Datasheet photo 3	AHID/6e644151c8f0cd2e59fc0bbaa7451d554c3113c4
Datasheet photo 4	AHID/d8b1ee9fff44d3a95feaaf8a9814621c03746fa0
Datasheet photo 5	AHID/9423ac62d3178712efa2de2d1dee4196317bb30d
ECC memory	non-ECC
Graphic card footnote number	[16,17,39]
Graphics	Discrete
Graphics (discrete)	NVIDIA® GeForce® RTX 2060 SUPER™ (8 GB GDDR6 dedicated)
Graphics card brand	NVIDIA®
Graphics card family	GeForce
Graphics card form factor	PCIe x16
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
Keyboard connectivity	wired
Keyboard interface	USB
Legal tagline	HP recommends Windows 11 Pro for business
Memory and storage	32 GB memory; 512 GB SSD storage
Memory layout (slots & size)	2 x 16 GB
Memory module type	DIMM
Memory size	32
Memory size uom	GB
Memory speed	2666
Memory speed uom	MHz
Memory type	DDR4
Model Number	RTX 2060 SUPER™
Number of memory slots	2
Package dimensions (W x D x H)	11.77 x 18.82 x 20.35 in
Package weight	24.98 lb

Playbook TS icon OS	http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905482.png
Playbook TS icon battery life	http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png
Playbook TS icon connectivity	http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201987.png
Playbook TS icon dimensions tower	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201997.png
Playbook TS icon graphics	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169202.png
Playbook TS icon memory	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267700.png
Playbook TS icon processor	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201972.png
Playbook TS icon storage	http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192819.png
Playbook TS icon weight imperial	http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05790117.png
Playbook TS icon weight metric	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267650.png
Processor Brand	Intel®
Processor base frequency	2.9
Processor cache	16 MB L3
Processor core	8
Processor family	Core™ i7
Processor frequency UOM	GHz
Processor frequency technology	Intel® Turbo Boost Technology
Processor generation	10th Generation
Processor maximum frequency	4.8
Processor maximum frequency uom	GHz
Processor model	10700
Processor threads	16
Product long name specifications	HP Z1 G6 Entry Tower Workstation, Windows 10 Pro, Intel® Core™ i7, 32GB RAM, 512GB SSD, NVIDIA® GeForce RTX 2060 SUPER™
Product short name specifications	HP Z1 G6 Entry Tower Workstation, Intel® Core™ i7, 32GB RAM, 512GB SSD
Standard memory note	Transfer rates up to 2666 MT/s.
Storage capacity	512
Storage capacity uom 01	GB
Storage form factor 01	M.2
Storage interface 01	PCIe®
Storage interface protocol 01	NVMe™
Storage type	SSD
Storage type 01	SSD
UNSPSC code	43211515

[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.

[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 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> .

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

[25] HP Sure Sense requires Windows 10 Pro or Enterprise 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.

[26] HP BIOSphere Gen6 is available on select HP Pro and Elite PCs. See product specifications for details. Features may vary depending on the platform and configurations.

[27] Secure Erase - For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane

[28] HP Sure Run Gen3 is available on select Windows 10 based HP Pro, Elite and Workstation 26PCs with select Intel® or AMD processors.

[29] HP Sure Click requires Windows 10 Pro or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.

[30] HP Client Security Manager Gen6 requires Windows and is available on the select HP PCs.

[31] HP Sure Start Gen6 is available on select HP PCs with Intel processors.

[32] HP Sure Run Gen3 is available on select Windows 10 based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors.

[33] HP Sure Recover Gen3 is available on select HP PCs and requires an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.

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