



HP Sales Central

HP Z1 G6 Entry Tower Workstation (36L06PA)

Active as of 28-11-2020



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

Specifications

Operating system

FreeDOS 2.0

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} 1

Number of processors

1

Chipset

Intel® Q470 (vPro®)

Form factor

Tower

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)

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

Memory

8 GB DDR4-2933 MHz RAM (1 x 8 GB)

Memory layout (slots & size)

1 x 8 GB

Memory Slots

4 DIMM

Internal drive bays

One 3.5"

External drive bays

One slim ODD

Internal Storage

1 TB 7200 rpm SATA

Additional storage

5-in-1 SD card reader (optional)

Optical drive

9.5 mm Slim DVD-Writer

Graphics (integrated)

Intel® UHD Graphics

I/O Port location

Front

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)

I/O Port location

Rear

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

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

Network interface type

LAN

Network interface

Integrated Intel® I219LM GbE LOM; Intel® I210-T1 PCIe® GbE

Power

550 W 92% efficient, wide-ranging, active PFC

Ecolabels

ENERGY STAR® certified

Minimum dimensions (W x D x H)

37 x 30.8 x 16.8 cm

Weight

9.86 kg

UPC number

195697885051

Package dimensions (W x D x H)

29.9 x 47.8 x 51.7 cm

Package weight

11.34 kg

Software included

HP Jumpstart; HP Noise Cancellation Software; HP Support Assistant; Buy Office (sold separately); ZCentral Remote Boost; HP Privacy Settings; HP Desktop Support Utilities²¹ 1

Keyboard

HP USB wired keyboard

Manufacturer Warranty

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

Overview

- 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.
- 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.

Specifications

- 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.

Assets

Brochure (7)

Are You Ready for VR?

Get VR Ready with the world's most comprehensive virtual reality portfolio from HP. This comprehensive brochure outlines HP's VR strategy and delivers platform recommendations for HMDs, the VR backpack, mobiles, and desktop configurations.

How Z by HP Data Science Stack Manager helps data scientists and IT alike

One-page pdf providing overview of Z by HP Data Science Stack Manager which offers fast, convenient access to software and open-source tools for data science.

HP VR - Helping you adapt

Virtual reality is a powerful tool that can help you collaborate, create and learn. HP VR hardware specifications and recommended tools from industry-leading ISV partners.

HP VR Family Brochure

Get VR Ready with the world's most comprehensive virtual reality portfolio from HP. This comprehensive brochure outlines HP's VR strategy and delivers platform recommendations for HMDs, the VR backpack, mobiles, and desktop configurations.

Powering a New Era of Collaboration and Simulation

Brochure describing the details and benefits of the Z by HP exclusive trial offer of Teradici CAS and NVIDIA Omniverse Enterprise

Z by HP Portfolio Brochure

Z by HP Brochure - Discover the latest generation of professional Z by HP products

Z by HP Reliability Brochure

This document is intended to showcase our Z reliability benefits.

Customer presentation (5)

HP Engage + Z OEM Customer Presentation

Partner and Channel

This presentation provides an overview of HP Engage and Z solutions for OEM applications.

Reinvent Your 3D Workflows: Z by HP + NVIDIA Omniverse + Teradici CAS Trial Offer CDA

Partner and Channel

Customer CDA presentation for the Z by HP + NVIDIA Omniverse Enterprise + Teradici CAS exclusive trial offer.

Z1 Entry Tower G8 Customer Presentation

Partner and Channel

Overview of Z1 Entry Tower G8 Desktop workstation. HP sales and partner use only under CDA.

Z2 G5 Customer Presentation

Partner and Channel

Overview of Z2 G5 desktop workstation. HP sales and partner use only under CDA.

Z2 G8 Customer Deck

Partner and Channel

Overview of Z2 G5 desktop workstation. HP sales and partner use only under CDA.

Marketing material (1)

Z by HP Playbook for Microsoft WSL 2

Partner and Channel

Training playbook to help sales teams understand the Z by HP offering of Microsoft's Windows Subsystem for Linux 2 (WSL 2).

Quick specs (1)

HP Z1 Entry Tower G6

Research or buy HP printers, desktops, laptops, and more at the Official HP Inc. Website.

Sales guide (1)

Z by HP Discrete Graphics Quick Reference Guide

Tabloid spread document that highlights all of the available NVIDIA and AMD graphics cards for the HP Z Workstations.

Success story (1)

Universidad Andrés Bello, Chile

Improving IT service response time and customer satisfaction with HP Device as a Service (DaaS)

Technical white paper (6)

An Hp Position Paper On Memory

The purpose of this document is to help HP workstation customers decide whether to populate their HP products with HP memory or with 3rd party memory. 3rd party memory is often less expensive than HP memory. Should customers pay extra for HP memory and if so what are the benefits? It is HP's desire that our customers understand some facts of memory technology and make the most informed decision possible based on their business needs.

Intel® virtual raidon CPU (vroc)

The purpose of this whitepaper is to explain Virtual RAID on CPU (VROC), it's prerequisites, enablement options, and configuration.

MIL-STD-810 Testing for HP Business PCs: August 2022 update

August 2022 update version of the whitepaper; most HP Business Notebook & Desktop PCs, Z/Workstations and Retail Systems undergo MIL-STD-810 test procedures as a way to demonstrate product quality & reliability. Conditions/specs outlined in the MIL-STD-810 test methods are not covered under the HP Limited Warranty.

Rack Mounting and the HP Workstation

Whether it is an IT technician servicing a single rack, or a team of professionals managing multiple data centers - with HP Rack Mounting Solutions, everyday tasks are made easy. HP rack mounting kits are engineered with the same customer-centric design philosophies that have made the Workstation product line a continuing success.

Understanding Multi-Frame Rendering in Adobe After Effects and Choosing the Right Z Platform

You've been pushing through projects on an underperforming computer, hiding and/or soloing layers, reducing the complexity of effects and/or turning effects off entirely, just so you can have responsive interactivity while previewing your adjustments. You finally get your project looking the way you want it and kick off the export.

Z by HP installation guide for Microsoft Windows Subsystem for Linux (WSL 2)

Technical white paper that provides instructions for existing Z workstation users who wish to install Microsoft WSL 2.


Training materials (1)

Intel AI Kit Playbook

Partner and Channel


Playbook for the Intel® AI Analytics Toolkit (AI Kit), powered by one API. Discover how the AI Kit can optimize data science workflows on select Z by HP workstations

Images - Product (4)




Center facing

54 x 41 (jpg) 54 x 41 (png)
96 x 72 (jpg) 96 x 72 (png)
99 x 74 (png) 153 x 115 (png)
180 x 135 (png) 240 x 180 (jpg)
240 x 180 (png) 247 x 185 (png)
257 x 193 (png) 320 x 240 (jpg)
320 x 240 (png) 474 x 356 (png)
513 x 385 (png) 573 x 430 (png)
1659 x 1246 (png) 1094 x 2453 (png)




Center facing

100 x 70 (jpg) 170 x 190 (jpg)
400 x 400 (jpg) 400 x 400 (png)
800 x 600 (png) 1189 x 2532 (jpg)
1500 x 3538 (jpg)



Left facing

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99 x 74 (png) 153 x 115 (png)
180 x 135 (png) 240 x 180 (jpg)
240 x 180 (png) 247 x 185 (png)
257 x 193 (png) 320 x 240 (jpg)
320 x 240 (png) 474 x 356 (png)
513 x 385 (png) 573 x 430 (png)
1659 x 1246 (png) 1528 x 2444 (png)



Left facing

100 x 70 (jpg) 170 x 190 (jpg)
400 x 400 (jpg) 400 x 400 (png)
800 x 600 (png) 1582 x 2517 (jpg)
1500 x 2660 (jpg)

Videos (14)

Configuration and Deployment Services Video.

Local Motors & HP Workstations

Factory Five Racing.

Hillsborough County Public Schools and HP Z Workstations

HP and Bandito Brothers

HP and Rakuno Gakuen University.

HP DreamColor Technology for Media and Entertainment.

HP OSF and Jump Trading: Enabling better patient outcomes - Shorter Version

HP ZCentral Video update showing HP ZCentral 4R 1U Desktop

Morgan Motors Company

Sage Cheshire takes off with SolidWorks HP and NVIDIA

Tech of DreamWorks Rise of the Guardians


Viral Videos powered by HP Z Workstations

Why HP Workstations

Accessories

HP Top Recommended Accessories

Audio/Multimedia and Communication Devices



428K7PT

HP Stereo 3.5mm Headset G2

Graphics Cards



340K8AA

NVIDIA T400 2 GB GDDR6 LP Blower Fan 3mDP PCIe x16 Graphics

Memory



13L76AA

HP 8GB DDR4-3200 DIMM

PC Drives and Storage



QK555AA

HP 1TB 7200rpm SATA (NCQ/Smart IV) 6Gbp/s Hard Drive

Audio/Multimedia and Communication Devices

HP Recommends

Active	Best	HP Stereo 3.5mm Headset G2	428K7PT
Active	Better	HP S101 Speaker Bar	5UU40AA

Headsets

Active	HP Stereo 3.5mm Headset	T1A66AA
Active	HP Stereo 3.5mm Headset G2	428H6AA
Active	HP Stereo 3.5mm Headset G2	428K7AA
Active	HP Stereo 3.5mm Headset G2	428K7PT

Speakers

Active	HP S101 Speaker Bar	5UU40AA
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Cables/Cable Kits/Cable Adapters

Audio and Video Cables

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

Cable Adapters

Active	HP USB-C to DP Adapter	N9K78AA
Active	HP USB-C to HDMI Adapter	4SH07AA
Active	HP USB-C to VGA Adapter	N9K76AA
Active	HP USB-C to VGA Display Adapter	P7Z54AA

PC Cable Options

Active	HP HDMI Standard Cable	T6F94AA
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Chassis and Chassis Accessories

Brackets/Bezels/Panels

Active	HP 3.5" HDD Grommet Screws (Bulk 48)	X9L44A6
Active	HP (Bulk 48) G3/4 2.5 HD/SSD M3 Grommet Screw Kit	Z9H61A6

Expansion Solution and Controller Cards

Port Adapters

Active	HP 800/600/400 G3 Serial/ PS/2 Adapter	1VD82AA
Active	HP DisplayPort Port Flex IO v2	13L54AA
Active	HP HDMI Port Flex IO v2	13L55AA
Active	HP Internal Serial Port (600/705/800)	3TK82AA
Active	HP PCIe x1 Parallel Port Card	N1M40AA
Active	HP Serial Port Flex IO v2	13L56AA
Active	HP Type-C USB 3.1 Gen2 Port Flex IO v2	13L59AA
Active	HP USB 3.1 Gen1 x2 Module Flex IO v2	13L58AA
Active	HP USB to Serial Port Adapter	J7B60AA
Active	HP VGA Port Flex IO v2	13L53AA

Graphics Cards

HP Recommends

Active	Best	NVIDIA T400 2 GB GDDR6 LP Blower Fan 3mDP PCIe x16 Graphics	340K8AA
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Graphics Cards

Active	AMD Radeon R7 430 2GB DisplayPort VGA Card	5JW82AA
Active	NVIDIA T400 2 GB GDDR6 LP Blower Fan 3mDP PCIe x16 Graphics	340K8AA

Keyboards/Mice and Input Devices

Keyboard and Mouse Kits

Active	HP USB Keyboard and Mouse Healthcare Edition	1VD81AA
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Keyboards

Active	HP Business Slim Smartcard Keyboard	Z9H48AA
Active	HP USB Keyboard for PC	QY776AA
Active	HP Wireless Premium Keyboard	Z9N41AA

Mice

Active	HP Business Mouse Pad	AT485AA
Active	HP USB Fingerprint Mouse	4TS44AA
Active	HP Wireless Premium Mouse	1JR31AA

Memory

HP Recommends

Active	Best	HP 8GB DDR4-3200 DIMM	13L76AA
Active	Better	HP 16GB DDR4-3200 DIMM	13L74AA
Active	Good	HP 32GB DDR4-3200 DIMM	13L72AA

DDR4 Memory

Active	HP 4GB DDR4-3200 DIMM	13L78AA
Active	HP 8GB DDR4-3200 DIMM	13L76AA
Active	HP 16GB DDR4-3200 DIMM	13L74AA
Active	HP 32GB DDR4-3200 DIMM	13L72AA

Network Adapters

Wireless LAN

Active	Intel 9260 802.11ac PCIe x1 Card	3TK89AA
Active	Realtek 8822BE 802.11ac PCIe x1 Card	3TK90AA

PC Controller/Controller Options

PC Processor Cards

Active	Intel Ethernet I210-T1 GbE NIC	E0X95AA
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PC Drives and Storage

HP Recommends

Active	Best	HP 1TB 7200rpm SATA (NCQ/Smart IV) 6Gbp/s Hard Drive	QK555AA
Active	Better	HP PCIe NVME TLC 512GB SSD M.2 Drive	X8U75AA

PC SATA Hard Drives

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

PC Solid State Drives

Active	HP PCIe NVME TLC 256GB SSD M.2 Drive	1CA51AA
Active	HP PCIe NVME TLC 512GB SSD M.2 Drive	X8U75AA

Point of Sales System Options

POS Display Accessories

Active	HP L7010t 10.1-inch Retail Touch Monitor	T6N30AA
Active	HP L7014 14-inch Retail Monitor	T6N31AA

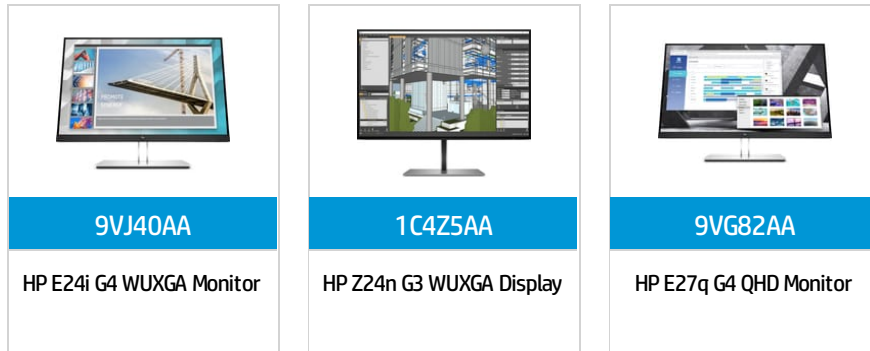
Security and Protection

PC Locks

Active	HP Business PC Security Lock v3 Kit	3XJ17AA
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Monitors

HP Top Recommended Monitors



Business Monitors

HP Recommends

Active	Best	HP E24i G4 WUXGA Monitor	9VJ40AA
Active	Better	HP Z24n G3 WUXGA Display	1C4Z5AA
Active	Good	HP E27q G4 QHD Monitor	9VG82AA

EliteDisplays

Active	HP EliteDisplay E243m 60.45 cm(23.8) Monitor	1FH48AA
Active	HP EliteDisplay E273m 68.58 cm (27) Monitor	1FH51AA

E-Series

Active	HP E22 G4 FHD Monitor	9VH72AA
Active	HP E23 G4 FHD Monitor	9VF96AA
Active	HP E24 G4 FHD Monitor	9VF99AA
Active	HP E24 G4 FHD No Stand(Bulk2) Monitor	3R473AA
Active	HP E24mv G4 FHD Conferencing Monitor	169L0AA
Active	HP E24q G4 QHD Monitor	9VG12AA
Active	HP E24t G4 FHD Touch Monitor	9VH85AA
Active	HP E24u G4 FHD USB-C Monitor	189T0AA
Active	HP E27 G4 FHD Monitor	9VG71AA
Active	HP E27u G4 QHD USB-C Monitor	189T3AA
Active	HP E24i G4 WUXGA Monitor	9VJ40AA
Active	HP E27q G4 QHD Monitor	9VG82AA

ProDisplays

Active	HP Mini-in-One 24 Display	7AX23AA
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P-Series

Active	HP P22 G4 22 FHD Monitor	1A7E4AA
Active	HP P22h G4 FHD Monitor	7UZ36AA
Active	HP P24 G4 24 FHD Monitor	1A7E5AA
Active	HP P24h G4 FHD Monitor	7VH44AA

Active	HP P27h G4 FHD Monitor	7VH95AA
Z Displays		
Active	HP DreamColor Z31x Studio Display	Z4Y82A4
Active	HP Z24f G3 FHD Display	3G828AA
Active	HP Z24u G3 WUXGA USB-C Display	1C4Z6AA
Active	HP Z25xs G3 QHD USB-C DreamColor Display	1A9C9AA
Active	HP Z27k G3 4K USB-C Display	1B9T0AA
Active	HP Z27q G3 QHD Display	1C4Z7AA
Active	HP Z27u G3 QHD Display	1B9X2AA
Active	HP Z27xs G3 4K USB-C DreamColor Display	1A9M8AA
Active	HP Z32 31.5-inch 4K UHD Display	1AA81A4
Active	HP Z38c 37.5-inch Curved Display	Z4W65A4
Active	HP Z43 42.5-inch 4K UHD Display	1AA85A4
Active	HP Z24n G3 WUXGA Display	1C4Z5AA

Services

HP Care Pack Services

HP Recommends

Active	HP 5 year Active Care Next Business Day Response Onsite WorkstationHardware Support	U22KCE
Active	HP 5 year Active Care Next Business Day Resp Onsite w/Defective MediaRetention WS HW Supp	U22KGE
Active	HP 5 year Next Business Day Response Onsite Workstation Hardware Support	U1G39E

Personal Systems Commercial Care Pack Services

Active	HP 1y Helpdesk Hardware Support	U09X7E
Active	HP 2y Helpdesk Hardware Support	U09X8E
Active	HP 3 year 24x7 Coverage User Assistance Hardware Support	UM253E
Active	HP 3 year 9x7 Coverage Priority Account (1 unit exclude ASM) Hardware Support	U9AH2E
Active	HP 3 year Active Care Next Business Day Resp Onsite w/Defective MediaRetention WS HW Supp	U22KDE
Active	HP 3 year Active Care Next Business Day Response Onsite WorkstationHardware Support	U22K9E
Active	HP 3y Helpdesk Hardware Support	U09X9E
Active	HP 3y Priority Account 1 unit exclude ASM Hardware Support	UQ812E
Active	HP 4 year 9x7 Coverage Priority Account (1 unit exclude ASM) Hardware Support	U9AH3E
Active	HP 4 year Active Care Next Business Day Resp Onsite w/Defective MediaRetention WS HW Supp	U22KFE
Active	HP 4 year Active Care Next Business Day Response Onsite WorkstationHardware Support	U22KBE
Active	HP 4y Helpdesk Hardware Support	U09XBE
Active	HP 5 year 9x7 Coverage Priority Account (1 unit exclude ASM) Hardware Support	U9AH4E
Active	HP 5y Helpdesk Hardware Support	U09XCE
Active	HP 5 year Active Care Next Business Day Response Onsite WorkstationHardware Support	U22KCE
Active	HP 5 year Active Care Next Business Day Response Onsite WorkstationHardware Support	U22KCE
Active	HP 5 year Active Care Next Business Day Resp Onsite w/Defective MediaRetention WS HW Supp	U22KGE
Active	HP 5 year Active Care Next Business Day Resp Onsite w/Defective MediaRetention WS HW Supp	U22KGE

Personal Systems Hardware Support Onsite Service

Active	HP 1 year Post Warranty 24x7 Coverage 4hr Response Onsite WorkstationHardware Support	U1G32PE
Active	HP 1 year PW Next business day Response onsite WS HW Supp	U1G24PE
Active	HP 3 year 24x7 Coverage 4hr Response Onsite Workstation Hardware Support	U1G28E
Active	HP 3 year 4hr Response Onsite w/Defective Media Retention WorkstationHardware Support	U1G79E

Active	HP 3 year Next Business Day Onsite Optional CSR Workstations HardwareSupport	U1G59E
Active	HP 3 year Next Business Day Response Onsite w/Accidental DamageProtection WS Supp	U0A88E
Active	HP 3 year Next Business Day Response Onsite w/Defective Media RetentionWS HW Supp	U1G55E
Active	HP 4 year 24x7 Coverage 4hr Response Onsite w/Defective Media RetentionWS HW Supp	U1G89E
Active	HP 4 year 4hr Response Onsite w/Defective Media Retention WorkstationHardware Support	U1G80E
Active	HP 4 year Next Business Day Response Onsite w/Accidental DamageProtection WS HW Supp	U0A89E
Active	HP 4 year Next Business Day Response Onsite w/Defective Media RetentionWS HW Supp	U1G56E
Active	HP 4 year Next Business Day Response Onsite Workstation Hardware Support	U1G37E
Active	HP 5 year 24x7 Coverage 4hr Response Onsite w/Defective Media RetentionWS HW Supp	U1G90E
Active	HP 5 year 24x7 Coverage 4hr Response Onsite Workstation Hardware Support	U1G47E
Active	HP 5 year 4hr Response Onsite w/Defective Media Retention WorkstationHardware Support	U1G81E
Active	HP 5 year Next Business Day Response Onsite w/Accidental DamageProtection Workstation HW Supp	U1G62E
Active	HP 5 year Next Business Day Response Onsite w/Defective Media Retention WS HW Supp	U1G57E
Active	HP 5 year Next Business Day Response Onsite Workstation Hardware Support	U1G39E

Detailed Specifications

Additional information on the product category

For the latest information, please visit our Web site at <http://www.hp.com/workstations>

Additional storage

5-in-1 SD card reader (optional)

Aggregation group name

BV_FE_FAMILY:tytosw_Group_133

Aggregation UPC group

195697885051 195697885068 195697885082 195908853275 195908853312 195908853329
195161865657

Audio

Conexant CX20632 codec, universal audio jack with CTIA and OMTP headset support

Chipset

Intel® Q470 (vPro®)

Code name

TyosW

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Datasheet photo 1

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Datasheet photo 2

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Datasheet photo 3

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Datasheet photo 4

AHID/9423ac62d3178712efa2de2d1dee4196317bb30d

Datasheet photo 5

AHID/6e644151c8f0cd2e59fc0bbaa7451d554c3113c4

ECC memory

No

Ecolabels

ENERGY STAR® certified

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

Expansion slots note

1 M.2 slot for WLAN and 2 M.2 2230/2242 slot for storage

External drive bays

One slim ODD

Form factor

Tower

Graphic card footnote number

[16,17,39]

Graphics

Integrated

Graphics (integrated)

Intel® UHD Graphics

I/O Port location

Front

I/O Port location

Rear

Image legal disclaimer

Product image may differ from actual product

Internal drive bays

One 3.5"

Internal Storage

1 TB 7200 rpm SATA

Keyboard

HP USB wired keyboard

Keyboard connectivity

wired

Legal tagline

HP recommends Windows 11 Pro for business

Manageability features footnote number

[22,23,24]

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)

Manufacturer Warranty

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

Memory

8 GB DDR4-2933 MHz RAM (1 x 8 GB)

Memory and storage

8 GB memory; 1 TB HDD storage

Memory layout (slots & size)

1 x 8 GB

Memory module type

DIMM

Memory size

8

Memory size uom

GB

Memory Slots

4 DIMM

Memory speed

2933

Memory speed uom

MHz

Memory type

DDR4

Minimum dimensions (W x D x H)

14.57 x 12.13 x 6.61 in

Minimum dimensions (W x D x H)

37 x 30.8 x 16.8 cm

Network interface

Integrated Intel® I219LM GbE LOM; Intel® I210-T1 PCIe® GbE

Network interface type

LAN

Number of memory slots

1

Number of processors

1

Operating system

FreeDOS 2.0

Optical drive

9.5 mm Slim DVD-Writer

Package dimensions (W x D x H)

11.77 x 18.82 x 20.35 in

Package dimensions (W x D x H)

29.9 x 47.8 x 51.7 cm

Package weight

11.34 kg

Package weight

24.98 lb

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 OS

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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>

Pointing device

HP USB wired mouse

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

Ports

1 VGA

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)

Power

550 W 92% efficient, wide-ranging, active PFC

Power supply required footnote number

[40]

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)

Processor base frequency

2.9

Processor Brand

Intel®

Processor cache

16 MB L3

Processor core

8

Processor family

10th Generation Intel® Core™ i7 processor

Processor family

Core™ i7

Processor frequency technology

Intel® Turbo Boost Technology

Processor frequency UOM

GHz

Processor generation

10th Generation

Processor maximum frequency

4.8

Processor maximum frequency uom

GHz

Processor model

10700

Processor name footnote number

[6,7]

Processor threads

16

Product long name specifications

HP Z1 G6 Entry Tower Workstation, FreeDOS 2.0, Intel® Core™ i7, 8GB RAM, 1TB HDD

Product short name specifications

HP Z1 G6 Entry Tower Workstation, Intel® Core™ i7, 8GB RAM, 1TB HDD

Sales office and telephone number

Albania: +49 89 9396 1803; Algeria: +213 (0) 61 68 23 00; Austria: +43 (0) 810 00 60 80; Bahrain: 800 171; Belgium: +32 (02) 729 71 11; Bulgaria: +359 2 969 87; Bosnia-Herzegovina: +49 89 9396 1803; Commonwealth of Independent States (CIS): +(095) 923 50 01; Croatia: +385 1 606 02 00; Czech Republic: +420 261 108 108; Denmark: +45 48 12 10 00; HP East Africa, Authorized Consultant: +254 20 27 16 111; Egypt: HP +202 792 5070; Estonia: +372 6 813 820; Finland: HP Myyntipalvelu 010 217 2700; France: +33 (0) 826 800 400; Germany: +49 (0) 180 532 62 22; Greece: +30 801 11 22 55 47; Hungary: +36 (1) 382 11 11; Iceland: +354 (1) 67 10 00; Ireland: +353 1 615 82 00; Israel: +972 9 830 48 48; Italy: Prodotti +39 02 92607 330, Servizio HP Care Pack: +39 02 9212 2040; Kazakhstan & Kyrgyzstan: +7 327 2 58 43 43; Latvia: +371 703 07 00; Lithuania: +370 5 2103 300; Luxembourg: (+352) 263 160 34 Macedonia: +49 89 9396 1803; Malta: +49 89 9396 1803; Middle East (Within UAE Toll Free): 800 45 20; Moldova: +49 89 9396 1803; Morocco (African Region): Call Centre +212 22 40 47 47, HP Sale Office +212 22 97 37 37/+212 22 43 64 00; Netherlands: 0800 266 7272; Nigeria: + 234 13 205 241/3; Norway: +47 24 09 70 00; Poland: 0 801 522 622 and/or 00 48 22 565 77 00 (calls are charged at national rates); Portugal: +351 808 200 808 (end user welcome desk for commercial products); Romania: +40 (21) 303 83 00; Saudi Arabia: (Toll free) 800 897 14 33, Office Number: +96612731200; Serbia and Montenegro: +381 11 201 99 00; Slovakia: 0800 147 147; Slovenia: +386 1 230 74 20; Spain: +34 (91) 631 16 00; Sweden: +46 200 27 00 00; Switzerland: Pre-sales/product information +41 (0) 848 88 44 66, Spare parts, manuals +41 (0) 848 84 74 64; Tunisia: +216 1 89 12 22; Turkey: +90 (212) 444 79 79; UAE (Toll Free): 800 45 20; UAE (Toll Free): 800 45 20 or 800 49 10; Ukraine: +380 44 490 61 20; United Kingdom: HP Teleweb Glasgow +44 (0) 845 270 40 00

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

Security management footnote number

[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

Software included footnote number

[21]

Standard memory note

Transfer rates up to 2933 MT/s.

Storage capacity

1

Storage capacity uom 01

TB

Storage interface 01

SATA

Storage speed 01

7200

Storage speed uom 01

rpm

Storage type

HDD

Storage type 01

HDD

Sustainable impact specifications

Low halogen

Sustainable impact specifications footnote number

[35]

Tech spec footnote

[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/>.

Tech spec footnote

[10] Intel® Optane™ memory is sold separately. Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system. Available for HP commercial desktops and notebooks and for select HP workstations (HP Z240 Tower/SFF, Z2 Mini, ZBook Studio, 15 and 17 G5) and requires a SATA HDD, 7th Gen or higher Intel® Core™ processor or Intel® Xeon® processor E3-1200 V6 product family or higher, BIOS version with Intel® Optane™ supported, Windows 10 version 1703 or higher, M.2 type 2280-S1-B-M connector on a PCH Remapped PCIe Controller and Lanes in a x2 or x4 configuration with B-M keys that meet NVMe™ Spec 1.1, and an Intel® Rapid Storage Technology (Intel® RST) 15.5 driver.

Tech spec footnote

[11] HD-DVD disks cannot be played on this drive. No support for DVD-RAM. Actual speeds may vary. Don't copy copyright-protected materials. With Blu-Ray, certain disc, digital connection, compatibility and/or performance issues may arise, and do not constitute defects in the product. Flawless playback on all systems is not guaranteed. In order for some Blu-ray titles to play, they may require a DVI or HDMI digital connection and your display may require HDCP support.

Tech spec footnote

[12] Intel® I210-T1 PCIe® GbE: Sold separately or as an optional feature.

Tech spec footnote

[13] Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 5 (802.11 ac) is backwards compatible with prior 802.11 specs.

Tech spec footnote

[14] Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs. The specifications for the 802.11ax WLAN are draft specifications and are not final. If the final specifications differ from the draft

specifications, it may affect the ability of the PC to communicate with 802.11ax WLAN devices. Wi-Fi 6 requires a wireless router, sold separately, that supports 802.11ax (Wi-Fi 6). Only available in countries where 802.11ax is supported.

Tech spec footnote

[15] For full Intel® vPro® functionality, Windows, a vPro supported processor, vPro enabled Q370 chipset or higher and vPro enabled WLAN card are required.

Tech spec footnote

[16] The TWR can support a single graphics card up to 300W.

Tech spec footnote

[17] NVIDIA® GeForce® RTX 2060 SUPER, NVIDIA® GeForce® RTX 2080 SUPER, NVIDIA® Quadro® RTX 4000, NVIDIA® Quadro® RTX 5000 require 550W chassis.

Tech spec footnote

[18] HD-DVD disks cannot be played on this drive. No support for DVD-RAM. Actual speeds may vary. Don't copy copyright-protected materials. With Blu-Ray, certain disc, digital connection, compatibility and/or performance issues may arise, and do not constitute defects in the product. Flawless playback on all systems is not guaranteed. In order for some Blu-ray titles to play, they may require a DVI or HDMI digital connection and your display may require HDCP support.

Tech spec footnote

[19] The HP Antimicrobial USB mouse, HP USB Hardened Mouse, HP PS/2 Mouse, HP USB and PS/2 Washable Mouse: are not available in all regions.

Tech spec footnote

[2] Some devices for academic use will automatically be updated to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary; see <https://aka.ms/ProEducation> for Windows 10 Pro Education feature information.

Tech spec footnote

[20] Intel® Optane™ memory is sold separately. Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system. Available for HP commercial desktops and notebooks and for select HP workstations (HP Z240 Tower/SFF, Z2 Mini, ZBook Studio, 15 and 17 G5) and requires a SATA HDD, 7th Gen or higher Intel® Core™ processor or Intel® Xeon® processor E3-1200 V6 product family or higher, BIOS version with Intel® Optane™ supported, Windows 10 version 1703 or higher, M.2 type 2280-S1-B-M connector on a PCH Remapped PCIe Controller and Lanes in a x2 or x4 configuration with B-M keys that meet NVMe™ Spec 1.1, and an Intel® Rapid Storage Technology (Intel® RST) 15.5 driver.

Tech spec footnote

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

Tech spec footnote

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

Tech spec footnote

[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>.

Tech spec footnote

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

Tech spec footnote

[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.

Tech spec footnote

[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.

Tech spec footnote

[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

Tech spec footnote

[28] HP Sure Run Gen3 is available on select Windows 10 based HP Pro, Elite and Workstation 26PCs with

select Intel® or AMD processors.

Tech spec footnote

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

Tech spec footnote

[3] 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.

Tech spec footnote

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

Tech spec footnote

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

Tech spec footnote

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

Tech spec footnote

[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.

Tech spec footnote

[34] EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information.

Tech spec footnote

[35] External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

Tech spec footnote

[36] HP USB Business Slim Antimicrobial Keyboard not available in all regions.

Tech spec footnote

[37] Of the following, only one option can be configured at a time: DisplayPort™ 1.4; HDMI 2.0; 2 Type A SuperSpeed USB 10Gbps; 1 serial; Thunderbolt™ 3.0; 1 USB-C® SuperSpeed USB 10Gbps (DisplayPort™ 1.2, 15W output); or VGA

Tech spec footnote

[38] Thunderbolt™ 3.0 and Serial/PS/2 combo occupies a PCIe slot.

Tech spec footnote

[39] Not all Graphic Cards may be available in all countries.

Tech spec footnote

[4] 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.

Tech spec footnote

[40] Performance PCA requires 550W Power Supply.

Tech spec footnote

[41] 125W processor requires performance PCA

Tech spec footnote

[5] For full Intel® vPro™ functionality, Windows 10 Pro 64 bit, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or WLAN card and TPM 2.0 are required. Some functionality requires additional 3rd party software in order to run. See <http://intel.com/vpro>

Tech spec footnote

[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.

Tech spec footnote

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

Tech spec footnote

[8] All memory slots are customer accessible / upgradeable.

Tech spec footnote

[9] For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

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UNSPSC code

43211515

UPC number

195697885051

Weight

21.74 lb

Weight

9.86 kg

Weight note (metric)

Exact weight depends on configuration.

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