#### **eDatasheet**

## HP Z2 Mini G5 Workstation (329N3UT)



### Our most powerful mini workstation. Now even mightier.

Get even more high-end performance packed into an insanely small device. Take on 3D design projects and work in multiple pro apps easily. Widely versatile, it's the obvious choice for the modern workplace.



HP recommends Windows 10 Pro

#### Be uncompromising about performance

With new Intel® processor options and professional graphics options, you get reliable performance in multi-threaded apps. Don't worry about overheating—our advanced thermals keep things cool and quiet.

#### The perfect fit, anywhere

Create the ideal setup—from the office to the shop floor to the data center. Mount under a desk or behind a display[3], then connect to multiple screens and other hardware. Or centrally manage your fleet of mini's with versatile rack mounting options.

#### We test it so you can trust it. 24/7.

We know you need performance you can rely on. That's why our products endure over 360K hours of rigorous testing, MIL-STD testing[4] and software certifications.

#### **Featuring**

### 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. <sup>[1]</sup>

### Intel® Core™ i7 processor

Run several CPU—heavy programs simultaneously without sacrificing performance with an Intel® Core $^{\text{TM}}$  i7 processor. [2]

# **Specifications**

Processor family  Processor  Chipset  Memory  16 GI  Memory Slots  2 SOI  Internal Storage  Internal drive bays  10th  10th  8 cor  8 cor  8 cor  10tel  8 cor  10tel  10t	idows 10 Pro for Workstations th Generation Intel® Core™ i7 processor tel® Core™ i7-10700 (2.9 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 16 MB L3 cache, pres) <sup>[6,7]</sup> tel® W480 GB DDR4-3200 SDRAM (1 x 16 GB) DDIMM CGB SATA SSD
Processor family         10th           Processor         Intel®           8 cor         Chipset           Memory         16 GI           Memory Slots         2 SOI           Internal Storage         512 GI           Internal drive bays         One Storage	th Generation Intel® Core™ i7 processor  el® Core™ i7-10700 (2.9 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 16 MB L3 cache, pres) <sup>[6,7]</sup> el® W480  GB DDR4-3200 SDRAM (1 x 16 GB)
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Chipset Intel® Memory 16 G Memory Slots 2 SO Internal Storage 512 G Internal drive bays One S	Dres) <sup>[6,7]</sup> SB DDR4-3200 SDRAM (1 x 16 GB) DDIMM
Memory16 GMemory Slots2 SOInternal Storage512 GInternal drive baysOne S	GB DDR4-3200 SDRAM (1 x 16 GB) DDIMM
Memory Slots2 SOInternal Storage512 GInternal drive baysOne S	DDIMM
Internal Storage512 0Internal drive baysOne 3	
Internal drive bays One 2	GB SATA SSD
·	
Graphics Inter	2.5"; Two M.2 NVME 2280 SSD
es	grated
Graphics (integrated) Intel	el® HD Graphics 630
Compatible displays All H	HP Z Displays and HP DreamColor Displays are supported. For more information see www.hp.com/go/zdisplays
Audio features Realt	ltek ALC3205-VA2-CG, 2.0W internal mono speaker
	6 x 21.6 x 5.8 cm andard desktop orientation.)
Minimum aimensions (W X I) X H)	x 8.5 x 2.28 in andard desktop orientation.)
welani	rting at 2.1 kg act weight depends on configuration.)
weignt	rting at 4.6 lb act weight depends on configuration.)
Keyboard HP W	Wired Desktop 320K keyboard
PORTS	eadphone/microphone combo; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-C® ibps signaling rate
Expansion slots 1 PCI	Cle® 3 x16 (MXM connector)
POITS	I-45; 3 DisplayPort™ 1.4; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-C® 10Gbps naling rate (charge support up to 5V/3A)
Ports 1 Dis	splayPort™
Wireless Intel	el® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5 combo
Power 180 V	W 88% efficient, wide-ranging, active PFC
Sustainable impact specifications Low	halogen
Security management BIOS	Secure Erase; HP Sure Click; HP Sure Sense; HP Sure Start Gen6; HP Sure Run Gen3; HP Sure Recover Gen3; HP Sphere Gen6; HP Sure Admin; Hood Sensor Optional Kit; HP Client Security Manager 6[15,22,23,26,29,30,31,32,40,41,42]
	PC Hardware Diagnostics UEFI; HP Performance Advisor; HP Support Assistant; HP PC Hardware Diagnostics dows; ZCentral Remote Boost; HP Image Assistant; HP Manageability Integration Kit <sup>[11,16,27,39]</sup>
	A) 195697547232; (ABC) 195697547249

# **Top Recommended Displays, Accessories and Services**

Z Displays	
HP Z24n G2 24-inch Display	1JS09A4
HP Z27n G2 27-inch Display	1JS10A4
HP Z32 31.5-inch 4K UHD Display	1AA81A4
Keyboards	
HP Wireless Premium Keyboard	Z9N41AA
Mice	
HP Wireless Premium Mouse	1JR31AA
HP USB Premium Mouse	1JR32AA
DDR4 Memory	
16GB (1x16GB) 3200 DDR4 NECC SODIMM	141H5AA
32GB (1x32GB) 3200 DDR4 NECC SODIMM	141H8AA
8GB (1x8GB) 3200 DDR4 NECC SODIMM	141J5AA
PC SATA Hard Drives	
HP 1TB 7200 RPM SATA SFF 1st HDD	T0K74AA
HP 500GB 7200rpm SATA SFF SED Hard Drive	D8N29AA
PC Solid State Drives	
HP 256GB SATA Solid State Drive	A3D26AA

#### **Messaging 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 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.
- [3] Rack mounting hardware sold separately.
- [4] Undergoes MIL-STD testing. MIL-STD testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a quarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Service.

#### **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.
- [11] HP Support Assistant requires Windows and Internet access.
- [15] HP Client Security Manager Gen6 requires Windows and is available on the select HP PCs.
- [16] HP Performance Advisor Software HP Performance Advisor is ready and waiting to help you get the most out of your HP Workstation from day one—and every day after. Learn more or download at: https://www8.hp.com/us/en/workstations/performance-advisor.html
- [22] HP Pro Security Edition is available preloaded on select HP PCs and includes HP Sure Click Pro and HP Sure Sense Pro. 3-year license required. The HP Pro Security Edition software is licensed under the license terms of the HP End User License Agreement (EULA) that can be found at:https://h30670.www3.hp.com/ecommerce/common/disclaimer.do#EN\_US as modified by the following: 7. Term. Unless otherwise terminated earlier pursuant to the terms contained in this EULA, the license for the HP Pro Security Edition (HP Sure Sense Pro and HP Sure Click Pro) is effective upon activation and will continue for thirty-six (36) months thereafter ("Initial Term"). At the end of the Initial Term you may either (a) purchase a renewal license for the HP Pro Security Edition from HP.com, HP Sales or an HP Channel Partner, or (b) continue using the standard versions of HP Sure Click and HP Sure Sense at no additional cost with no future software updates or HP Support.
- [26] HP BIOSphere Gen6 features may vary depending on the platform and configurations.
- [27] HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html
- [29] HP Sure Click requires Windows 10 Pro or Enterprise. See https://bit.ly/2PrLT6A\_SureClick for complete details.
- [30] HP Sure Start Gen 6 is available on select HP PCs and workstations. See product specifications for availability.
- [31] HP Sure Run Gen3 is available on select Windows 10 based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors
- [32] 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.
- [39] HP ZCentral Remote Boost does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and laptops without license purchase. With non-Z sender devices, purchase of perpetual individual license or perpetual floating license per simultaneously executing versions and purchase of ZCentral Remote Boost Software Support is required. RGS requires Windows, RHEL (7 or 8), UBUNTU 18.04 LTS, or HP ThinPro 7operating systems. 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.
- [40] 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
- [41] 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.
- [42] HP Sure Admin requires Windows 10, HP BIOS, HP Manageability Integration Kit from http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.

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