



# HP Z6 G4 Workstation

## A future-proof powerhouse

No matter what the future holds, you'll have all the performance you need. Ideal for VFX and rendering, this workhorse offers a wide range of processing power and the flexibility to upgrade components over time.



\*Product image may differ from actual product

HP recommends Windows 11 Pro for business

### Designed to grow with you

- Invest only in the technology you need today, and easily upgrade in the future. Scale up with a broad range of configurations from single or dual processors to multiple graphics cards.

### Relentless power

- Take on demanding workloads with high-powered processors, professional graphics and 768 GB of memory. Experience seamless performance during graphics-intensive work, such as visual effects and design visualization.

### HP's most secure workstations

- Advanced security features come standard on every Z6. Rest assured your device, identity and data are safe with security software like HP Client Security Suite<sup>2</sup> and HP Sure Start, the industry's first self-healing BIOS with intrusion detection.

### Featuring

- Support your unique user needs with a choice of Windows 10 Pro or Linux<sup>®</sup> operating systems.<sup>1</sup>
- Achieve the performance you need with the ability to support two next generation Intel<sup>®</sup> Xeon<sup>®</sup> processors for up to 52 total processor cores in one system.<sup>3</sup>
- Get serious about graphics and reach peak productivity with access to a breadth of NVIDIA<sup>®</sup> and AMD professional graphics from entry to ultra 3D.<sup>4</sup>
- Install the fastest professional grade storage hardware around, unlocking performance for storage-bound applications without sacrificing standard PCIe slots.
- The Z6 workstation's sleek, iconic design doesn't compromise on quiet, reliable performance.
- HP SureStart automatically detects intrusions in real-time, notifies you, and restores the BIOS you use, so you can breathe easier.
- Create two network connections without the added cost of a PCIe NIC with dual embedded 1GbE LAN ports which come standard.
- The optional dual front I/O USB 3.1 G2 Type C™ module lets you transfer data to devices using modern connection technology at higher data rates.<sup>5</sup>
- Super fast network connections<sup>6,7</sup>
- Optional self-encryption drives thwart outside access so your valuable IP won't fall into the wrong hands.<sup>4</sup>
- Future-proof your Z with Intel<sup>®</sup> Optane™ DC Persistent Memory for the best price/performance with the ability to load large data sets entirely into memory for fast access and application responsiveness.<sup>8</sup>

## HP Z6 G4 Workstation Specifications Table



\*Product image may differ from actual product

Available Operating Systems	Windows 11 Pro for Workstations <sup>1,21,22</sup> Windows 10 Pro for Workstations <sup>1,21,22</sup> Ubuntu 20.04 LTS <sup>23</sup> HP Installer Kit for Linux <sup>23</sup> Red Hat® Enterprise Linux <sup>23</sup> (HP Linux® Installer Kit includes drivers for 64-bit versions of Red Hat® Enterprise Linux® 7.4, SUSE Linux® Enterprise Desktop 12 and Ubuntu 16.04. Red Hat® Enterprise Linux® (1-year paper license only) is available as a second operating system.)
Processor family	Intel® Xeon® Scalable processor
Available Processors <sup>2,3</sup>	Intel® Xeon® Silver 4214R (2.4 GHz base frequency, up to 3.5 GHz with Intel® Turbo Boost Technology, 16.5 MB L3 cache, 12 cores); Intel® Xeon® Silver 4215R (3.2 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 11 MB L3 cache, 8 cores); Intel® Xeon® Silver 4216 (2.1 GHz base frequency, up to 3.2 GHz with Intel® Turbo Boost Technology, 22 MB L3 cache, 16 cores); Intel® Xeon® Gold 5118 (2.3 GHz base frequency, up to 3.2 GHz with Intel® Turbo Boost Technology, 16.5 MB L3 cache, 12 cores); Intel® Xeon® Gold 5215 (2.5 GHz base frequency, up to 3.4 GHz with Intel® Turbo Boost Technology, 13.75 MB L3 cache, 10 cores); Intel® Xeon® Gold 5218 (2.3 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 22 MB L3 cache, 16 cores); Intel® Xeon® Gold 5218R (2.1 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 27.5 MB L3 cache, 20 cores); Intel® Xeon® Gold 5220R (2.2 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 35.75 MB L3 cache, 24 cores); Intel® Xeon® Gold 5222 (3.8 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 16.5 MB L3 cache, 4 cores); Intel® Xeon® Gold 6128 (3.4 GHz base frequency, up to 3.7 GHz with Intel® Turbo Boost Technology, 19.25 MB L3 cache, 6 cores); Intel® Xeon® Gold 6136 (3.0 GHz base frequency, up to 3.7 GHz with Intel® Turbo Boost Technology, 24.75 MB L3 cache, 12 cores); Intel® Xeon® Gold 6226 (2.7 GHz base frequency, up to 3.7 GHz with Intel® Turbo Boost Technology, 19.25 MB L3 cache, 12 cores); Intel® Xeon® Gold 6226R (2.9 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 22 MB L3 cache, 16 cores); Intel® Xeon® Gold 6230R (2.1 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 35.75 MB L3 cache, 26 cores); Intel® Xeon® Gold 6234 (3.3 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 24.75 MB L3 cache, 8 cores); Intel® Xeon® Gold 6238R (2.2 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 38.5 MB L3 cache, 28 cores); Intel® Xeon® Gold 6240 (2.6 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 24.75 MB L3 cache, 18 cores); Intel® Xeon® Gold 6240R (2.4 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 35.75 MB L3 cache, 24 cores); Intel® Xeon® Gold 6242 (2.8 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 22 MB L3 cache, 16 cores); Intel® Xeon® Gold 6242R (3.1 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 35.75 MB L3 cache, 20 cores); Intel® Xeon® Gold 6244 (3.6 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Technology, 24.75 MB L3 cache, 8 cores); Intel® Xeon® Gold 6246R (3.4 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 35.75 MB L3 cache, 16 cores)
Chipset	Intel® C622
Maximum memory	384 GB DDR4-2666 ECC RAM; 768 GB DDR4-2933 ECC RAM <sup>20</sup> Transfer rates up to 2933MT/s.
Memory slots	12 DIMM with 2 processors
Internal storage	up to 300 GB SAS (15000 rpm) <sup>4</sup> 500 GB up to 2 TB SATA (7200 rpm) <sup>4</sup> up to 500 GB SATA SED (7200 rpm) <sup>4</sup> 1 TB up to 6 TB 7200 rpm SATA Enterprise <sup>4</sup> 256 GB up to 2 TB SATA SSD <sup>4</sup> 256 GB up to 512 GB SATA SED Opal 2 SSD <sup>4</sup> 240 GB up to 480 GB SATA Enterprise SSD <sup>4</sup> 256 GB up to 1 TB HP Z Turbo Drive PCIe® NVMe™ SSD <sup>4</sup> 256 GB up to 1 TB HP Z Turbo Drive PCIe® NVMe™ SSD M.2 <sup>4</sup> 256 GB up to 512 GB HP Z Turbo Drive PCIe® NVMe™ SED SSD M.2 <sup>4</sup> 256 GB up to 8 TB HP Z Turbo Drive Quad Pro PCIe® SSD <sup>4</sup> 256 GB up to 4 TB HP Z Turbo Drive Dual Pro PCIe® SSD <sup>4</sup>
Additional storage	HP SD 4 Media Card Reader (optional)
Optical drive	HP Slim DVD-ROM; HP Slim Blu-ray Writer; HP Slim DVD-Writer <sup>5,6</sup>
Available Graphics	Entry 3D: NVIDIA® Quadro® P400 (2 GB GDDR5 dedicated); NVIDIA® Quadro® P620 (2 GB GDDR5 dedicated); NVIDIA® T600 (4 GB GDDR6 dedicated); NVIDIA® T400 (2 GB GDDR6 dedicated) Mid-range 3D: AMD Radeon™ Pro WX 3200 (4 GB GDDR5 dedicated); NVIDIA® Quadro® P1000 (4 GB GDDR5 dedicated); NVIDIA® Quadro® P2000 (5 GB GDDR5 dedicated); NVIDIA® Quadro® P2200 (5 GB GDDR5X dedicated); NVIDIA® Quadro® T1000 (4 GB GDDR6 dedicated); NVIDIA RTX™ A2000 (6 GB GDDR6 dedicated) High-end 3D: NVIDIA® Quadro RTX™ 4000 (8 GB GDDR6 dedicated); NVIDIA RTX™ A4000 (16 GB GDDR6 dedicated); AMD Radeon™ Pro W5500 (8 GB GDDR5 dedicated); AMD Radeon™ Pro W5700 (8 GB GDDR5 dedicated); NVIDIA RTX™ A4500 (20 GB GDDR6 dedicated) Ultra High-end 3D: NVIDIA® Quadro® SYNC II; NVIDIA® Quadro RTX™ 5000 (16 GB GDDR6 dedicated); NVIDIA® Quadro RTX™ 6000 (24 GB GDDR6 dedicated); NVIDIA® Quadro RTX™ 8000 (48 GB GDDR6 dedicated); NVIDIA® RTX™ A5000 (24 GB GDDR6 dedicated); NVIDIA® RTX™ A6000 (48 GB GDDR6 dedicated); AMD Radeon™ Pro W6800 (32 GB GDDR6 dedicated) <sup>7,17,20</sup>
Expansion slots	3 PCIe x4; 1 PCIe x8; 2 PCIe x16; 2 M.2 PCIe x4 (Slot 1: CPU with open-ended connector. Slots 3 and 6: PCH with open-ended connector. Slot 4: CPU with open-ended connector (slot converts to x4 electrical when SSD is installed in 2nd M.2 slot). M.2 Slots 1 and 2: CPU up to 80 mm storage devices.)
Ports and Connectors	Front: 1 headset connector; 4 USB 3.1 (1 charging); Rear: 6 USB 3.1 Gen 1; 2 RJ-45 (1 GbE); 1 audio-out; 1 audio-in; 1 PS/2 mouse port; 1 PS/2 keyboard port; 1 serial; (Premium front includes: 1 headset, 2 USB 3.1 Gen 1 (1 charging), 2 USB 3.1 Gen 2 Type-C™.)
Input devices	HP Wireless Business Slim Keyboard and Mouse Combo; HP USB Business Slim Keyboard; USB Premium wired keyboard; USB Smart Card (CCID) keyboard <sup>10</sup> ; 3Dconnexion CADMouse; HP USB Optical Mouse; HP USB Hardened Mouse <sup>10</sup> ;
Communications	LAN: HP dual-port 10GbBase-T NIC; Integrated Intel® I219-LM PCIe® GbE; Integrated Intel® X722 PCIe® GbE; Intel® 10 GbE SFP+ SR transceiver; Intel® I210-T1 PCIe® GbE; Intel® I350-T4 dual-port GbE NIC; Intel® X550-T2 dual-port GbE NIC; Intel® X710-DA2 dual-port GbE NIC; Intel® I350-T2 GbE NIC <sup>13</sup> ; WLAN: Intel® Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo, non-vPro™ <sup>14</sup> ;
Drive Bays	Two 5.25"; Two 2.5" or 3.5" <sup>16</sup>
Software	HP Performance Advisor; HP Remote Graphics Software (RGS);
Security management	HP Sure Start Gen3; Secure authentication; Kensington lock slot; Full volume encryption; HP Keyed Cable Lock Kit; TPM 2.0 certified; HP Secure Erase; <sup>14,15,18</sup>
Power	1000 W internal power supply, up to 90% efficiency, active PFC; 700 W internal power supply, up to 90% efficiency, active PFC
Dimensions	6.65 x 18.3 x 17.5 in 16.9 x 46.5 x 44.5 cm
Weight	Starting at 29 lb Starting at 13.1 kg (Exact weight depends on configuration.)
Ecolabels	EPEAT® registered configurations available; TCO Certified configurations available <sup>11,26</sup>
Energy star certified (series fixed)	ENERGY STAR® certified
Sustainable impact specifications	Low halogen <sup>12</sup>
Compatible displays	All HP Z Displays and HP DreamColor Displays are supported.

## HP Z6 G4 Workstation

### Accessories and services (not included)

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**HP 5 year Next Business Day Onsite  
HW Support w/Defective Media  
Retention for Workstations HP 5  
year Next Business Day Onsite HW  
Support w/Defective Media  
Retention for Workstations**



When hardware issues come up, the sooner you can get running again, the better. Have expertise at the ready with HP Hardware Next Business Day Onsite Service with Defective Media Retention, and vastly improve your product uptime. With high-quality remote assistance or convenient onsite support available the next business day, help is there when you need it—so you can get back to work.  
**Product number: UE344E**

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## HP Z6 G4 Workstation

### Messaging Footnotes

- <sup>1</sup> 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>
- <sup>2</sup> HP Client Security Suite features vary by platform.
- <sup>3</sup> 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 is not a measurement of higher performance.
- <sup>4</sup> Sold separately or as an optional feature.
- <sup>5</sup> HP Z Premium Front I/O 2xUSB-A 2xUSB-C is sold separately or as an optional feature.
- <sup>6</sup> HP dual-port 10GBase-T NIC is sold separately or as an optional feature.
- <sup>7</sup> Available in the first half of 2019.
- Screen image courtesy of Chris McLennan
- Screen image courtesy of Renault Sport Racing
- <sup>8</sup> Supported only with Xeon 82xx, 62xx, 52xx and 4215 processors. Available as factory configured in Memory Mode or Storage Mode. See Quick Specs for more information.

### Technical Specifications Footnotes

- <sup>1</sup> 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 is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.
- <sup>2</sup> 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.
- <sup>3</sup> Some vPro functionality of this technology, such as Intel® Active management technology and Intel Virtualization technology, requires additional 3rd party software in order to run. Availability of future "virtual appliances" applications for Intel vPro technology is dependent on 3rd party software providers. Microsoft Windows required.
- <sup>4</sup> For hard drives and solid state drives, 1 GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB of system disk is reserved for system recovery software.
- <sup>5</sup> Duplication of copyrighted material is strictly prohibited. Actual speeds may vary. Double Layer media compatibility will widely vary with some home DVD players and DVD-ROM drives. Note that DVD-RAM cannot read or write to 2.6GB Single Sided/5.2 Double Sided-Version 1.0 Media. No support for DVD RAM.
- <sup>6</sup> 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. HD-DVD movies cannot be played on this Desktop PC.
- <sup>7</sup> HP VR Ready Configurations available.
- <sup>8</sup> For systems installed with Microsoft Windows 7 (Ultimate, Enterprise or Professional), the maximum accessible system memory is 192 GB. For systems installed with Microsoft Windows 8.x (Enterprise or Pro), the maximum accessible system memory is 512 GB.
- <sup>9</sup> Wireless access point and Internet access required. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ac WLAN devices.
- <sup>10</sup> Optional or add-on feature.
- <sup>11</sup> Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit [www.epeat.net](http://www.epeat.net) for more information.
- <sup>12</sup> External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
- <sup>13</sup> HP Remote Graphics Software requires a Windows, Linux®, or Mac® OS X 10.10 and newer operating system and network access.
- <sup>14</sup> HP Sure Start Gen3 is available on HP EliteBook, HP ZBook, and HP Z Workstation products equipped with Intel® 7th generation processors.
- <sup>15</sup> HP Secure Erase: For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88. Supported on Elite platforms with BIOS version F.03 or higher.
- <sup>16</sup> Each bay is configurable to 2.5" or 3.5".
- <sup>17</sup> NVIDIA® Quadro® SYNC II sold separately
- <sup>18</sup> HP Keyed Cable Lock Kit is available only as an aftermarket option.
- <sup>19</sup> HP dual-port 10GBase-T NIC is sold separately or as an optional feature.
- <sup>20</sup> Available in the first half of 2019.
- <sup>21</sup> Windows 11 Pro and Windows 10 Pro is preinstalled. Windows 7 media is only available upon request from HP Customer Support. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.
- <sup>22</sup> NOTE: In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on <http://www.support.hp.com>.
- <sup>23</sup> Notes: For detailed Linux® OS/hardware support information, see: [http://www.hp.com/support/linux\\_hardware\\_matrix](http://www.hp.com/support/linux_hardware_matrix)
- <sup>24</sup> Intel® I350-T4 dual/quad-port GbE NIC is sold separately or as an optional feature.
- <sup>25</sup> Not all features are available in all editions or versions of Ubuntu. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS to take full advantage of Ubuntu functionality. Ubuntu may be automatically updated. ISP fees may apply and additional requirements may apply over time for updates.
- <sup>26</sup> TCO Certified configurations available when ENERGY STAR configurations are selected with a USB Type-C® connector. ENERGY STAR available with a combination of high-performance CPU's, high-performance GPU's and select memory configurations.

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4AA7-0827, February 2022



# Configure your HP Z6 G4 Workstation Customizable

## Operating system

Choose the right OS for your work style.

Windows 11 Pro for Workstations - HP recommends Windows 11 Pro for business

Windows 10 Pro for Workstations (available through downgrade rights from Windows 11 Pro for Workstations)

Ubuntu Linux 20.04

Linux-ready

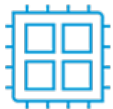


## Application software

Get down to business with software to fit your needs.

WSL2/Ubuntu Data Science Stack

DATA SCIENCE STACK: Tip: This option requires the Ubuntu operating system to be selected. It has been removed from view.



## Processor

A faster processor means more efficient operation.

Intel® Xeon® Bronze 3204 Processor (1.9 GHz, 8.25 MB cache, 2133 MHz, 6 core, 85W)

Intel® Xeon® 3206R Processor (1.9 GHz, 11 MB cache, 2133MHz, 8 core, 85W)

Intel® Xeon® Silver 4108 Processor (1.8 GHz, up to 3 GHz w/Turbo Boost, 11 MB cache, 2400MHz, 8 core)

Intel® Xeon® Silver 4208 Processor (2.1 GHz, up to 3.2 GHz w/Boost, 11 MB cache, 2400 MHz, 8 core, 85W)

Intel® Xeon® Silver 4210 Processor (2.2 GHz, up to 3.2 GHz w/Boost, 14 MB cache, 2400 MHz, 10 core, 85W)

Intel® Xeon® Silver 4210R Processor (2.4 GHz, 2400 MHz, 10 core, 100W)

Intel® Xeon® Silver 4114 Processor (2.2 GHz, up to 3 GHz w/Turbo Boost, 13.75 MB cache, 2400MHz, 10 core)

Intel® Xeon® Silver 4214 Processor (2.2 GHz, up to 3.2 GHz w/Boost; 17 MB cache, 2400MHz, 12 core, 85W)

Intel® Xeon® W-3223 Processor (3.5 GHz, up to 4 GHz w/Boost, 16.5 MB cache, 2666 MHz, 8 core, 160W)

Intel® Xeon® Silver 4214R Processor (2.4 GHz, 2400MHz, 12 core, 100W)+\$625.00

Intel® Xeon® Silver 4215R Processor (3.2 GHz, up to 4 GHz w/Boost, 11 MB cache, 2400 MHz, 8 core, 130W)

Intel® Xeon® Silver 4216 Processor (2.1 GHz, up to 3.2 GHz w/Boost; 22 MB cache, 2400MHz, 16 core, 100W)

Intel® Xeon® W-3225 Processor (3.7 GHz, up to 4.3 GHz w/Boost, 16.5 MB cache, 2666 MHz, 8 core, 160W)

Intel® Xeon® Gold 5215 Processor (2.5 GHz, up to 3.4 GHz w/Boost, 14 MB cache, 2666MHz, 10 core, 85W)

Intel® Xeon® Gold 5222 Processor (3.8 GHz, up to 3.9 GHz w/Boost, 17 MB cache, 2666MHz, 4 core, 105W)

Intel® Xeon® Gold 6226R Processor (2.9 GHz, up to 3.9 GHz w/Boost, 22 MB cache, 2933MHz, 16 core, 150W)

Intel® Xeon® Gold 5218 Processor (2.3 GHz, up to 3.9 GHz w/Boost, 22 MB cache, 2666MHz, 16 core, 125W)

Intel® Xeon® W-3235 Processor (3.3 GHz, up to 4.4 GHz w/Boost, 19.25 MB cache, 2933 MHz, 12 core, 180W)

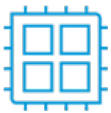
Intel® Xeon® Gold 6128 Processor (3.4 GHz, up to 3.7 GHz w/Turbo Boost, 19.25 MB cache, 2666MHz, 6 core)  
core, 125W)

Intel® Xeon® Gold 6230R Processor (2.1 GHz, up to 4GHz w/Boost, 35.75 MB cache, 26 core, 150W)

Intel® Xeon® W-3245 Processor (3.2 GHz, up to 4.4 GHz w/Boost, 22 MB cache, 2933 MHz, 16 core, 205W)

Intel® Xeon® Gold 6234 Processor (3.3 GHz, up to 4 GHz w/Boost, 24.75 MB cache, 2933 MHz, 8 core, 130W)

Intel® Xeon® Gold 6244 Processor (3.6 GHz, up to 4.4 GHz w/Boost, 25 MB, 2933MHz, 8 core, 150W)



## Secondary processor

None

Intel® Xeon® 3206R 2nd Processor (1.9 GHz, 11 MB cache, 2133MHz, 8 core, 85W)

Intel® Xeon® Silver 4108 2nd Processor (1.8 GHz, up to 3 GHz w/Turbo Boost, 11 MB cache, 2400MHz, 8 core)

Intel® Xeon® Silver 4208 2nd Processor (2.1 GHz, up to 3.2 GHz w/Boost, 11 MB cache, 2400 MHz, 8 core, 85W)

Intel® Xeon® Silver 4210 2nd Processor (2.2 GHz, up to 3.2 GHz w/Boost, 14 MB cache, 2400 MHz, 10 core, 85W)

Intel® Xeon® Silver 4210R 2nd Processor (2.4 GHz, 2400 MHz, 10 core, 10

Intel® Xeon® Silver 4114 2nd Processor (2.2 GHz, up to 3 GHz w/Turbo Boost, 13.75 MB cache, 2400MHz, 10 core)

Intel® Xeon® Silver 4214 2nd Processor (2.2 GHz, up to 3.2 GHz w/Boost; 17 MB cache, 2400MHz, 12 core, 85W)

Intel® Xeon® Silver 4215R 2nd Processor (3.2 GHz, up to 4 GHz w/Boost, 11 MB cache, 2400 MHz, 8 core, 130W)

Intel® Xeon® Silver 4216 2nd Processor (2.1 GHz, up to 3.2 GHz w/Boost; 22 MB cache, 2400MHz, 16

core, 100W)

Intel® Xeon® Gold 5118 2nd Processor (2.3 GHz, up to 3.2 GHz w/Boost, 16.5 MB cache, 2400MHz, 12 core)

Intel® Xeon® Gold 5222 2nd Processor (3.8 GHz, up to 3.9 GHz w/Boost, 17 MB cache, 2666MHz, 4 core, 105W)

Intel® Xeon® Gold 5218 2nd Processor (2.3 GHz, up to 3.9 GHz w/Boost, 22 MB cache, 2666MHz, 16 core, 125W)

Intel® Xeon® Gold 6226R 2nd Processor (2.9 GHz, up to 3.9 GHz w/Boost, 22 MB cache, 2933MHz, 16 core, 150W)

Intel® Xeon® Gold 6230R 2nd Processor (2.1 GHz, up to 4GHz w/Boost, 35.75 MB cache, 26 core, 150W)



## Chassis

Z6 G4 90 1000 W Chassis



## Memory

Do more, faster with added memory.

8 GB (1x8 GB) DDR4-2933 ECC Registered Memory (1 Processor)

16 GB (2x8 GB) DDR4-2933 ECC Registered Memory (1 Processor)

24 GB (3x8 GB) DDR4-2933 ECC Registered Memory (1 Processor)

32 GB (2x16 GB) DDR4-2933 ECC Registered Memory (1 Processor)

32 GB (4x8 GB) DDR4-2933 ECC Registered Memory (1 Processor)

48 GB (3x16 GB) DDR4-2933 ECC Registered Memory (1 Processor)



48 GB (6x8 GB) DDR4-2933 ECC Registered Memory (1 Processor)

64 GB (2x32 GB) DDR4-2933 ECC Registered Memory (1 Processor)

64 GB (4x16 GB) DDR4-2933 ECC Registered Memory (1 Processor)

96 GB (3x32 GB) DDR4-2933 ECC Registered Memory (1 Processor)

96 GB (6x16 GB) DDR4-2933 ECC Registered Memory (1 Processor)

128 GB (4x32 GB) DDR4-2933 ECC Registered Memory (1 Processor)

192 GB (6x32 GB) DDR4-2933 ECC Registered Memory (1 Processor)

256 GB (4 x 64 GB) DDR4-2933 ECC Registered Memory (1 processor)

384 GB (6 x 64 GB) DDR4-2933 ECC Registered Memory (1 processor)

The RAM selection requires a memory cooling solution to be selected in the accessories category. This has been selected for you. One or more options in this category is not available with your the current processor selection.



## Internal OS load storage options

Operating System Load to M.2

Operating System Load to PCIe

Operating System Load to SATA/SAS

Operating System Load to PCIe (Front removable)

Tip: The operating system load to M.2 selected requires a selection in the internal M.2 storage category.



## Internal M.2 storage

Pick the right amount of storage for your needs.

None

HP Z Turbo Drive M.2 256GB TLC SED SSD

256 GB HP Z Turbo Drive TLC M.2 SSD

HP Z Turbo Drive M.2 512GB TLC SED SSD

512 GB HP Z Turbo Drive TLC M.2 SSD

1 TB HP Z Turbo Drive TLC M.2 S

2 TB HP Z Turbo Drive M.2 PCIe TLC SS

Internal M.2 storage is a required category

Tip: A 2nd internal M.2 storage selection is only available with a primary internal M.2 storage selection.

### Internal PCIe storage

Pick the right amount of storage for your needs.

None

256 GB HP Z Turbo Drive Dual Pro TLC SSD

512 GB HP Z Turbo Drive Dual Pro TLC SSD

256 GB HP Z Turbo Drive Quad Pro TLC SSD

512 GB HP Z Turbo Drive Quad Pro TLC SSD0

1 TB HP Z Turbo Drive Dual Pro TLC SSD

1 TB HP Z Turbo Drive Quad Pro TLC SSD

2 TB HP Z Turbo Drive Quad Pro SSD

2 TB HP Z Turbo Drive Dual Pro TLC SSD

To view options for a 2nd internal PCIe storage drive a 1st internal PCIe storage selection must be made.



## Additional bay options

Additional options to increase your productivity.

HP QX310 Removable Frame/Carrier with PCIe card

Tip: A QX310 removable drive selection requires the frame/carrier to be selected. To view these options please adjust your selection.

---



## Real-time data backup

Real-time back up options protect your data.

None

One or more options in this category require the operating system to be loaded to the SATA/SAS drive. In order to view these options please adjust your selection in the internal OS load category.

---



## Internal storage

Pick the right amount of storage for your needs.

None

500 GB 7200 RPM SATA 3.5" HDD

1 TB 7200 RPM SATA 3.5" HDD

2 TB 7200 RPM SATA 3.5" HDD

1 TB 7200 RPM SATA Enterprise 3.5" HDD

2 TB 7200 RPM SATA Enterprise 3.5" HDD

4 TB 7200 RPM SATA Enterprise 3.5" HDD

6 TB 7200 RPM SATA Enterprise 3.5" 1st HDD

8 TB 7200 RPM SATA Enterprise 3.5" HDD

One or more options in this category require the operating system to be loaded to the SATA/SAS drive. In order to view these options, please adjust your selection in the internal OS load category.



## 2nd internal storage

More storage. More space. More ways to save.

None

500 GB 7200 RPM SATA 3.5" 2nd HDD

1 TB 7200 RPM SATA 3.5" 2nd HDD

2 TB 7200 RPM SATA 3.5" 2nd HDD

2 TB 7200 RPM SATA Enterprise 3.5" 2nd HDD

4 TB 7200 RPM SATA Enterprise 3.5" 2nd HDD

Tip: a 3rd internal storage selection is not available without a 2nd internal storage selection.



## Settings

HP VR Ready Configuration



## Graphics card

Improve image clarity, motion in videos and color brilliance.

No integrated Graphics

NVIDIA® T400 Graphics (2 GB GDDR6, LP, 3 x Mini DisplayPort 1.4 with latching mechanism, Blower fan)

AMD Radeon™ Pro WX 3200 (4 GB GDDR5, 4x mini-DisplayPort, PCIe x16) Graphics

NVIDIA® T600 (2 GB GDDR6, LP, 4 x Mini DisplayPort 1.4, PCIe x16, Blower fan) Graphics

NVIDIA® T1000 Graphics (4 GB GDDR5, 4xMini DisplayPort, PCIe x16)

AMD Radeon™ Pro W5500 (8GB GDDR6, FH, 4x DisplayPort 1) Graphics	
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AMD Radeon™ Pro W5700 (8 GB GDDR6, 5x Mini-DisplayPort 1.4 + 1x USB-C) Graphics Card

NVIDIA® Quadro® RTX™ 4000 (8 GB GDDR6, 3 x DisplayPort 1.4, USB-C) Graphics

NVIDIA® RTX™ A4500 (20 GB GDDR6; 4 x DisplayPort 1.4) Graphics

AMD Radeon™ PRO W6800 (32 GB GDDR6, 6 x DisplayPort 1.4 with DSC) Graphics Card

NVIDIA RTX™ A2000 (6 GB GDDR6 ECC, 4 x Mini DisplayPort 1.4) Blower Fan Graphics

NVIDIA® Quadro® RTX™ 5000 (16 GB GDDR6, 4 x DisplayPort 1.4, USB-C) Graphics

NVIDIA® RTX™ A6000 (48 GB ECC GDDR6; 4 x DisplayPort 1.4, PCIe x16) Graphics - Blower Fan



## 2nd graphics card

None

NVIDIA® T400 2nd Graphics (2 GB GDDR6, LP, 3 x Mini DisplayPort 1.4 with latching mechanism)

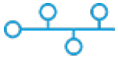
NVIDIA® T600 (2 GB GDDR6, LP, 4 x Mini DisplayPort 1.4, PCIe x16) 2nd Graphics

NVIDIA® T1000 2nd Graphics (4 GB GDDR5, 4xMini DisplayPort, PCIe x16)

NVIDIA® QUADRO® P2000 (5 GB GDDR5, 4x DisplayPort 1.4) 2nd Graphics

NVIDIA RTX™ A2000 (6 GB GDDR6 ECC, 4 x Mini DisplayPort 1.4) Graphics

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## Additional networking options

None

Intel® Ethernet I210-T1 PCIe x1 Gb Network Interface Card

HP i350-T2 PCIe Dual Port Gigabit NIC

Intel® X550-T2 10GbE Dual Port NIC

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ENERGY STAR

ENERGY STAR Qualified Configuration

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TCO Certified compliance



A TCO Certified configuration requires an ENERGY STAR certification and a USB type C port configured as either an add-on option or flex port selection. Please review these categories for additional details.



## Media reader

HP SD Card Reader Option



## Optical drive

Save files and burn your own CDs and DVDs.

No included Optical Disc Drive

9.5mm DVD-Writer 1st ODD

9.5mm Blu-ray Writer 1st ODD



## Keyboard

Improved interactions with an upgraded keyboard and mouse.

No Included Keyboard

Business USB Slim Keyboard

HP Wireless Business Slim Keyboard and Mouse



## Mouse

No Included Mouse

HP Wired Optical USB Mouse

### Technical Specifications

#### HP Z22n G2 21.5-inch Display

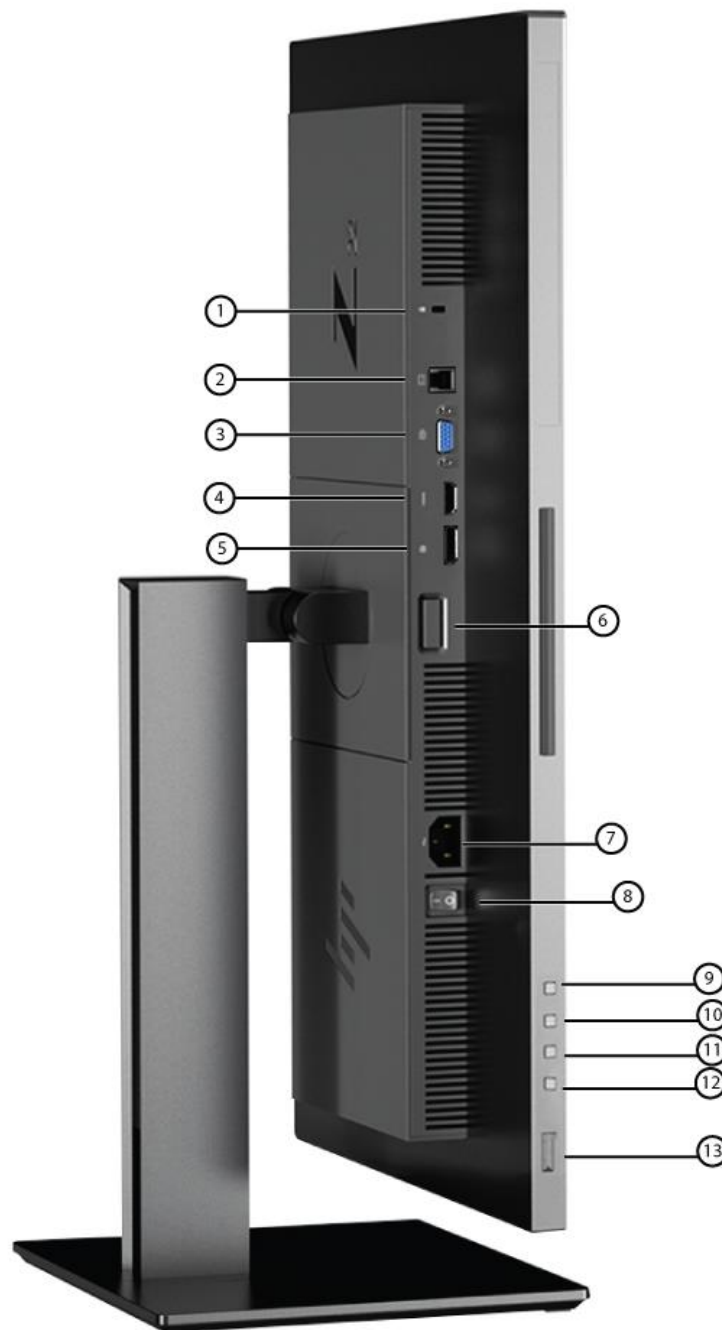


- |  |  |
|--|--|
| <ol style="list-style-type: none"> <li>1. <b>Menu/OK</b></li> <li>2. <b>Minus ("−")/Down/Color Control</b></li> <li>3. <b>Plus ("+")/Up/Viewing Mode Menu</b></li> <li>4. <b>Exit/Back/Next Active Input</b></li> <li>5. <b>Power/Power LED</b></li> </ol> | <p>Press to open the OSD menu, select a menu item from the OSD, or close the OSD menu.</p> <p>If the OSD menu is on, press to navigate backward through the OSD menu and decrease adjustment levels.</p> <p>If the OSD menu is on, press to navigate forward through the OSD menu and increase adjustment levels.</p> <p>if the OSD menu is inactive, press to activate Color control selection</p> <p>If the OSD menu is on, press to exit menu</p> <p>if the OSD menu is inactive, press to activate the source button that chooses the video signal input (VGA, HDMI, or DisplayPort)</p> <p>Turns the monitor on or off.</p> <p><b>LED:</b><br/>         fully powered = white;<br/>         sleep mode = amber;<br/>         sleep timer mode = flashing amber.</p> |
|--|--|



### Technical Specifications

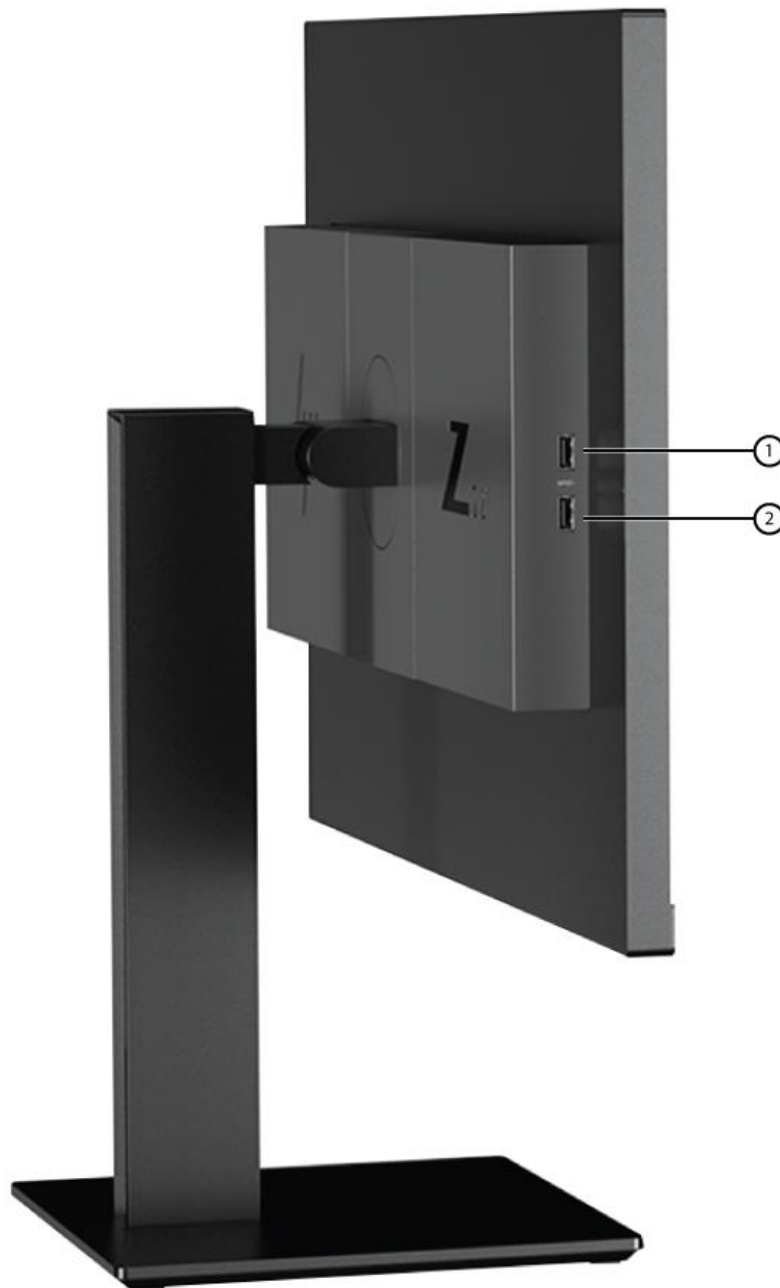
#### HP Z22n G2 21.5-inch Display



- |                              |  |   |
|------------------------------|--|---|
| <b>1.</b> Security Lock Slot | <b>6.</b> Stand Quick Release Button     | <b>11.</b> Minus ("-")/Down/Viewing Models Menu |
| <b>2.</b> USB 3.0 Upstream   | <b>7.</b> Power Connector Port           | <b>12.</b> Exit/Back/Information                |
| <b>3.</b> VGA Input          | <b>8.</b> Power Switch                   | <b>13.</b> Power/Power LED                      |
| <b>4.</b> HDMI 1.4           | <b>9.</b> Menu/OK                        |   |
| <b>5.</b> DisplayPort™ 1.2   | <b>10.</b> Plus ("+")/Up/Next Input Port |   |

### Technical Specifications

#### HP Z22n G2 21.5-inch Display



1. USB 3.0 Type-A
2. USB 3.0 Type-A

### Technical Specifications

Models: 1JS05A4, 1JS05A8

<b>Panel Specifications</b>	<b>Display Size (Diagonal)</b>	21.5-inch
	<b>Viewable Image Area (diagonal)</b>	<b>54,6 cm</b> (21.5 in) widescreen; diagonally measured
	<b>Display Panel Type</b>	IPS, LED Backlight
	<b>Micro-Edge Bezel</b>	Yes, 3 sided
	<b>Panel Hardness</b>	3H
	<b>Native Resolution/Timing</b>	1920 x 1080 @ 60 Hz
		Note: The Display can support up to 75Hz refresh for some video modes. The video card of the connected PC must be capable of supporting 75Hz. The preferred Mode is 1920 x 1080 @ 60 Hz.
	<b>Panel Bit Depth</b>	8 Bit (6 +2 FRC) 16.7 Million colors
	<b>Aspect Ratio</b>	16:9
	<b>Brightness* - Typical</b>	250 cd/m <sup>2</sup>
	<b>Static Contrast Ratio* - Typical</b>	1,000:1
	<b>Dynamic Contrast Ratio* - Typical</b>	10,000,000:1
	<b>Flicker Free</b>	Yes
	<b>Pixel Pitch</b>	0.24795 mm
	<b>Pixels Per Inch (PPI)</b>	102
	<b>Backlight Lamp Life (to half brightness - in hours)</b>	30,000 hours minimum
	<b>Low Blue Light Capable</b>	Yes, user selectable in OSD Menu
	<b>Anti-Glare Panel</b>	Yes. Haze 25%
	<b>Response Time* – Typical</b>	5ms Gray to Gray
		* Product default is 14.0ms response time and can be adjusted to as low as 5.4ms in the display menu. See user guide for more information.
		<b>Horizontal Viewing Angle (typical CR&gt;10)</b>
	<b>Vertical Viewing Angle (typical CR&gt;10)</b>	Up to 178° vertical (10:1 minimum contrast ratio)
	<b>Panel Active Area (w x h)</b>	<b>47,6.1 x 26,78 cm</b> (18.74 x 10.54 in)
	<b>Preset Graphic Modes/Supported Resolutions</b>	640 x 480 @ 60Hz, 75Hz 720 x 400 @ 70 Hz 800 x 600 @ 60 Hz, 75Hz 1024 x 768 @ 60 Hz, 75Hz 1280 x 720 @ 60 Hz 1280 x 800 @ 60 Hz 1280 x 1024 @ 60 Hz, 75Hz 1440 x 900 @ 60 Hz 1600 x 900 @ 60 Hz 1680 x 1050 @ 60 Hz 1920 x 1080 @ 60 Hz, 75Hz
	<b>Maximum Resolution</b>	1920 x 1080 @ 60 Hz
	<b>Recommended Resolution</b>	1920 x 1080 @ 60 Hz
	<b>Vertical Scan Range</b>	50-75 Hz
	<b>Horizontal Scan Range</b>	30-84 kHz
	<b>Maximum Pixel Clock Speed</b>	180 MHz
<b>Color Gamut Coverage</b>	<b>sRGB*</b>	95% sRGB
<b>Color Management</b>	<b>Factory Color Calibrated</b>	Yes
	<b>Default Color Temperature</b>	SRGB (D65)
<b>Monitor Specifications</b>	<b>Exterior Color of Monitor Bezel &amp; Stand</b>	Black Pearl Head, Chin, and Base (Die-Cast Aluminum)
	<b>Plug &amp; Play</b>	Yes
	<b>Tilt</b>	-5° to +22° vertical
	<b>Swivel</b>	Swivel +/- 45
	<b>Pivot</b>	Yes, Pivot (CW & counter CW)

### Technical Specifications

	<b>Height Adjustment Range 4-Way Comfort Adjust</b>	Yes, 0 to 150 mm Easily adjust the display in height, tilt, swivel and pivot for maximum comfort.
	<b>Integrated Quick Release<sup>5</sup></b>	An easy-to-use, VESA-compliant, LCD monitor mounting solution that allows you to quickly and securely attach an LCD monitor to a variety of stands, brackets, arms or wall mounts.
	<b>Cable Management</b>	Enhanced cable management for easy concealment of power, video and USB cables. Effortless routing of cables through the cable management tunnel at the base of the column.
	<b>VESA Mounting</b>	Yes (one set of standard 4-hole pattern, 100 mm).
	<b>Security Lock Ready</b>	Yes
	<b>Detachable Base</b>	No
	<b>Warranty</b>	Protected by HP, including a 3-year standard limited warranty. Optional HP Care Pack Services are extended service contracts that extend your protection beyond the standard warranties. <sup>7</sup>
	<b>Zero Bright Dot Guarantee</b>	Yes
	Note: The HP Pixel Policy allows no bright sub-pixel defects for this display. For complete details, see <a href="http://support.hp.com/us-en/document/c00288895">http://support.hp.com/us-en/document/c00288895</a> .	
<b>On Screen Display (OSD)</b>	<b>On Screen Display User Controls</b>	Brightness, Contrast, Color Control, Input Control, Image Control, Power Control, Menu Control, Management, Language, Information, Exit
	<b>Monitor Control Buttons or Switches</b>	Menu/OK, Minus button/Down/Color Control, Plus button/Up/Viewing Mode Menu, Exit/Back/Next Active Input, Power
	<b>User-Assignable Function Buttons</b>	Yes, 10
	<b>Languages</b>	10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)
<b>Connector Types</b>	<b>DisplayPort™ HDMI VGA HDCP Support</b>	(1) DisplayPort™ 1.2 (1) HDMI 1.4 (1) VGA Yes, DisplayPort™ and HDMI
<b>USB Port Specifications</b>	<b>USB Version USB Hub Downstream Ports Upstream Ports</b>	3.0 Yes, 2 downstream ports 2 Ports 1 Port
<b>Power &amp; Operating Specs</b>	<b>Power Supply Input Power Power Consumption – Maximum<sup>2</sup> Energy Saving/Standby Mode Power Consumption – Typical<sup>1</sup> Power cable length</b>	Internal 100 - 240 VAC 50/60 Hz 30 W 0.5 W 17 W 1,9 m (6.2 ft)
<b>ENERGY STAR® Data</b>	<b>Operational Mode at 100 VAC Operational Mode at 115 VAC Operational Mode at 230 VAC</b>	50.59 KWH/year 50.59 KWH/year 50.59KWH/year

### Technical Specifications

<b>EU Energy Efficiency Class (ERP Lot-5)</b>	<b>On-mode Power Consumption</b>	20W	
	<b>Annual Power Consumption</b>	29 kWh	
	<b>Energy Efficiency Class</b>	E	
<b>Operating Conditions</b>	<b>Operating Temperature - Celsius</b>	<b>5° to 35° C</b>	
	<b>Operating Temperature - Fahrenheit</b>	41° to 95° F	
	<b>Non-operating Temperature - Celsius</b>	<b>-20° to 60° C</b>	
	<b>Non-operating Temperature - Fahrenheit</b>	-4° to 140°	
	<b>Operating Humidity</b>	20% to 80% non-condensing	
	<b>Non-operating Humidity</b>	5% to 95%, 38.7° C max wet-bulb	
	<b>Operating Altitude</b>	<b>0 to 5,000 m</b> (16,404 ft)	
	<b>Non-operating Altitude</b>	<b>0 to 12,192 m</b> (0 to 40,000 ft)	
<b>Environmental Features and Certifications</b>	<b>Mercury-free LED display backlighting</b>	Yes	
	<b>Arsenic-Free Display Glass</b>	Yes	
	<b>Low Halogen<sup>3</sup></b>	Yes	
	<b>ENERGY STAR® Qualified</b>	Yes	
	<b>EPEAT® 2019 Registered<sup>6</sup></b>	Yes	
	<b>China Energy Label</b>	CEL Grade 1	
	<b>TCO Certified Edge</b>	Yes	
	<b>TCO Certified</b>	Yes	
	<b>SmartWay Transport Partnership - NA only</b>	Yes	
	<b>Certification &amp; Compliance</b>	CE, CB, MSIP, Mexico COC, ICES, ISO 9241-307, CU, cTUVus, ISC, CCC, CEL Grade 1, VCCI, FCC, BSMI, WEEE, RCM, ErP, KC/E-Standby, SEPA, GS, TUV-S, TCO, TCO Edge, Australian-New Zealand MEPS, PSB, Vietnam MEPS, ENERGY STAR® Qualified, EPEAT® 2019 Registered <sup>6</sup> , SmartWay Transport Partnership - NA only	
	<b>Country of Origin</b>	China	
<b>Eco-Label Certifications &amp; declarations</b>	This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:		
	<ul style="list-style-type: none"> <li>• IT ECO declaration</li> <li>• US ENERGY STAR®</li> <li>• TCO Certified Edge</li> <li>• Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit <a href="http://www.epeat.net">http://www.epeat.net</a> for more information.</li> </ul>		
<b>Energy Consumption (in accordance with US ENERGY STAR® test method)</b>	<b>115VAC, 60Hz</b>	<b>230VAC, 50Hz</b>	<b>100VAC, 50Hz</b>
Normal Operation	14.15 W	15 W	14.1 W
Sleep	0.23 W	0.3 W	0.22 W
Off	0.15 W	0.3 W	0.14 W
<b>Heat dissipation*</b>	<b>115VAC, 60Hz</b>	<b>230VAC, 50Hz</b>	<b>100VAC, 50Hz</b>
Normal Operation	48 BTU/hr	51 BTU/hr	48 BTU/hr
Sleep	1 BTU/hr	1 BTU/hr	1 BTU/hr
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr
	*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.		
<b>Additional Information</b>	<ul style="list-style-type: none"> <li>• This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2002/95/EC.</li> </ul>		

### Technical Specifications

- This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC.
- This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).
- This product is in compliance with the IEEE 1680.1 (EPEAT) standard, see <http://www.epeat.net>
- Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.
- This product contains 46.1% post-consumer recycled plastic (by wt.)  
This product is 98.1% recycle-able when properly disposed of at end of life.

#### Packaging Materials

<b>External:</b>	PAPER/Corrugated	1218 g
<b>Internal:</b>	PLASTIC/Polystyrene Expanded – EPS	368 g
	PLASTIC/Polyethylene high density - HDPE	45 g
	PLASTIC/Other & COMPOSITE/paper/carton+plastic	4 g

#### RoHS Compliance

HP, Inc. is committed to compliance with all applicable environmental laws and regulations, including the European Union Restriction of Hazardous Substances (RoHS) Directive. HP's goal is to exceed compliance obligations by meeting the requirements of the RoHS Directive on a worldwide basis. By July 1, 2006, RoHS substances will be virtually eliminated (virtually = to levels below legal limits) for all HP electronic products subject to the RoHS Directive, except where it is widely recognized that there is no technically feasible alternative (as indicated by an exemption under the EU RoHS Directive).

#### Material Usage

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at <http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf>):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants – may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

#### Packaging

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.

### Technical Specifications

- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.

#### End-of-life Management and Recycling

Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards. Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: <http://www.hp.com/go/reuse-recycle> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <http://www.hp.com/go/recyclers>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

#### HP, Inc. Corporate Environmental Information

For more information about HP's commitment to the environment:

Global Citizenship Report

<http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html>

Eco-label certifications

<http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html>

ISO 14001 certificates:

<http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842>

and

<http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf>

#### Recycled Plastics

<b>Back Cover</b>	85%
<b>Base/Stand</b>	85%
<b>Other Parts</b>	85% (Deco, Middle Frame)
<b>Recyclable Plastics</b>	All
<b>Recyclable Packaging (Box, packing materials)</b>	All

#### Unit Product/Package Specifications

	Metric	Imperial
<b>Unpacked with stand</b> (highest setting) Product Dimensions (W x D x H)	<b>48,83 x 20,5 x 44,87 cm</b>	19.22 x 8.07 x 17.7 in
<b>Head Only</b> Product Dimensions (W x D x H)	<b>48,83 x 4,33 x 29,33 cm</b>	19.22 x 1.7 x 11.55 in
<b>Base Area Footprint</b> Product Dimensions (W x D x H)	<b>23,7 x 1,1 x 20,5 cm</b>	9.33 x 0.43 x 8.07 in
<b>Packaged</b> Packaged Dimensions (W x D x H)	<b>56,8 x 35 x 27 cm</b>	22.4 x 13.8 x 10.6 in
<b>Plastic Bezel Measurements</b>	<b>Top: 0,135 cm</b> <b>Side: 0,135 cm</b> <b>Bottom: 1,84 cm</b>	Top: 0.053 in Side: 0.053 in Bottom: 0.724 in
<b>Product Weight, Packed</b>	<b>7,6 kg</b>	16.8 lbs
<b>Product Weight, Unpacked</b>	<b>5,3 kg</b>	11.7 lbs
<b>Product Weight, Head Only</b>	<b>2,8 kg</b>	6.2 lbs

#### Pallet Information

<b>Pallet Dimensions (L x W x H mm)</b>	Pallet A: 1370 x 1146 x 2250 mm Pallet B: 1146 x 1098 x 2250 mm
<b>Pallet Dimensions (L x W x H inch)</b>	Pallet A: 53.94 x 45.12 x 88.58 (inch) Pallet B: 45.12 x 43.23 x 88.58 (inch)

### Technical Specifications

	<b>Pallet Total Weight (including units) kg</b>	Pallet A: 498kg Pallet B: 400kg
	<b>Pallet Total Weight (including units) lbs</b>	Pallet A: 1095lbs Pallet B: 880lbs
	<b>Pallet Layers</b>	Pallet A: 6 layers Pallet B: 6 layers
	<b>Pallet Product per Layer</b>	Pallet A: 10 units Pallet B: 8 units
	<b>Total Products per Pallet</b>	Pallet A: 60 units Pallet B: 48 units
<b>What's in the box?</b>	<b>Monitor</b>	HP Z22n G2 21.5-inch Display
	<b>AC Power Cord</b>	Metric 1,9 m Imperial 6.2 ft
	<b>DisplayPort™ 1.2 Cable</b>	2 m 6.56 ft
	<b>USB 3.0, b-a Cable</b>	1,8 m 5.9 ft
	<b>Documentation CD</b>	HP Display Assistant software, User Guide, warranty and drivers. HP Display Assistant is a software utility that enables theft deterrence and allows monitor adjustment, color calibration, and security/asset management using the Display Data Channel Command Interface (DDC/CI) protocol of the connected PC or workstation.
<b>User Guide and Warranty Languages</b>	<b>User Guide Languages</b>	English, Arabic, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish.
	<b>Warranty Languages</b>	English, Arabic, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish.
<b>Options<sup>5</sup> (Each sold separately)</b>	<b>HP S100 Speaker Bar</b> — Part number 2LC49AA	Add rich stereo audio to select 2017 and 2018 HP Commercial Displays <sup>4</sup> without crowding your desk with the USB-powered HP S100 Speaker Bar, which fits neatly underneath the display head.
	<b>HP B300 PC Mounting Bracket</b> — Part number 2DW53AA	Attach your HP Workstation, HP Desktop Mini, HP Chromebox or select HP Thin Client directly behind select 2017 and 2018 HP EliteDisplays and HP Z Displays with the HP B300 PC Mounting Bracket.
	<b>HP UHD USB Graphics Adapter</b> — Part number N2U81AA	Just plug the adapter into any USB 2.0 or 3.0 port on your PC and connect the DisplayPort™ connector on the other end to your UHD display.



### Technical Specifications

**HP Single Monitor Arm** — Part number BT861AA

The flexible design of the HP Single Monitor Arm provides a seemingly endless range of display adjustments with an amazing 13 inches of lift, 50 degrees of tilt, and 360 degrees of pan and rotation – all at your fingertips -- helping you stay comfortable and productive throughout the day.

**HP Adjustable Dual Display Stand** — Part Number AW664AA

Premium space-saving dual screen solution provides access to more monitor real estate and makes it possible to manage multiple applications simultaneously. Weight adjustable for dual monitors from 17-24". Rotate displays into portrait/landscape positions.

**HP Business PC Security Lock v2 Kit** — Part Number N3R93AA

Help prevent chassis tampering and secure your PC and display in workspaces and public areas with the HP Business PC Security Lock v2 Kit.

### Technical Specifications

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\*All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

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ENERGY STAR is a registered trademark owned by the U.S. Environmental Protection Agency.

1. Default Power is measured with factory defaults, including factory default brightness and USB ports loaded at 25% of maximum.
2. Maximum Power is measured with monitor at maximum brightness and with USB ports loaded at 100% of maximum.
3. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
4. Sold separately. See product QuickSpecs for exact device and display compatibility.
5. The HP Quick Release has been designed to support a maximum of up to 24 lbs (10.9 kg) for all devices mounted. Because mounting surfaces vary widely and the final mounting method and configuration may vary, mounting fasteners are not supplied (other than the VESA-compliant screws). HP recommends that you consult with a qualified engineering, architectural or construction professional to determine the appropriate type and quantity of mounting fasteners required for your application and to ensure that your mounting solution is properly installed to support applied loads.
6. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit <http://www.epeat.net> for more information.
7. Service levels and response times for HP Care Pack Services may vary depending on your geographic location. Service starts from date of hardware purchase. Restrictions and limitations apply. See <http://www.hp.com/go/cpc> for details.

### Technical Specifications

<b>Change Log</b>	
<b>8/10/2017</b>	Corrected Product Color
<b>8/10/2017</b>	Corrected HDMI      Version to 1.4
<b>8/23/2017</b>	Resolution changed      Version 2 to Version 3
<b>9/27/2017</b>	Environmental data added      Version 3 to version 4
<b>1/4/2018</b>	Clarified 8-bit (6+2 FRC)
	Removed Factory Color Calibration Section
	Updated document version to 5
<b>05/28/2019</b>	Updated EPEAT
<b>02/28/2021</b>	Energy EfficiencyClass

# MOUSE 3D Inalámbrico profesional

Producto	SpaceMouse Pro inalámbrico
Documento	Ratón 3D de documento maestro de copia de producto
Categoría	(PCMD)
<b>Idioma</b>	<b>ES</b>
Pieza-Nr.	3DX-700075
EAN/UPC	4 260016 341047 / 8 21123 70075 8

El estándar para la ingeniería CAD

## Copia del producto - breve

ratón espacial•Pro Wireless proporciona una conexión en tiempo real a su contenido 3D con la tecnología inalámbrica 3Dconnexion de 2,4 GHz y una duración de la batería de dos meses. Trabaje de manera más inteligente, no más difícil, ya que los comandos apropiados se asignan automáticamente a cuatro teclas de funciones inteligentes. Detecte errores, explore alternativas y presente su trabajo de manera más efectiva para su revisión con QuickView Keys. Minimice los movimientos de las manos gracias a los prácticos modificadores de teclado. Disfrute de la comodidad con el reposamanos de tamaño completo con revestimiento suave y la posición ergonómica de los 15 botones suaves al tacto.

## Copia del producto - larga

ratón espacial•Inalámbrico profesional

Navegación 3D superior. Rendimiento profesional. Ergonomía de clase mundial. Duración de la batería de dos meses. Sin cables.

### Navegación inmersiva de diseño de ingeniería 3D

Conéctese a un nivel más profundo con su contenido 3D. La tapa del controlador SpaceMouse Pro Wireless patentada de 6 grados de libertad (6DoF) ofrece una navegación 3D con una sensación natural diseñada específicamente para profesionales. Panorámica, zoom y rotación suaves de modelos y cámaras. Posicione fácilmente

piezas, ensamblajes y diseños. Examine y analice intuitivamente sus diseños desde todos los ángulos. Es casi como tener tu modelo en la mano.

Mientras que su mouse estándar selecciona, crea y edita, SpaceMouse Pro Wireless maneja la navegación 3D para un estilo de trabajo revolucionario a dos manos preferido por los mejores ingenieros, arquitectos y profesionales 3D del mundo.

### Libertad inalámbrica completa

SpaceMouse Pro Wireless proporciona una conexión en tiempo real a su contenido 3D con la tecnología inalámbrica 3Dconnexion de 2,4 GHz. Simplemente conecte el receptor universal a su PC o Mac y disfrute de la confiabilidad de un dispositivo con cable junto con la satisfacción de

una computadora de escritorio sin cables. SpaceMouse Pro Wireless funcionará durante dos meses entre cargas. Cuando la energía de la batería es baja, simplemente conecte el cable USB y continúe trabajando.

### **Desempeño profesional a su alcance**

Trabaja inteligentemente y no duro. SpaceMouse Pro Wireless reconoce automáticamente el entorno de su aplicación y asigna los comandos apropiados a cuatro teclas de funciones inteligentes suaves al tacto.

### **Ir un paso más allá**

Asigne menús radiales de cuatro secciones a cualquiera de los 15 botones para acceder fácilmente en pantalla a aún más de sus comandos favoritos.

Cree sus propios menús en segundos o elija entre ajustes preestablecidos diseñados para llevar las capacidades de SpaceMouse Pro Wireless más lejos que nunca.

### **Mantenga sus ojos en lo que importa**

La visualización en pantalla de SpaceMouse Pro Wireless proporciona un práctico recordatorio en pantalla de los comandos asignados a sus teclas de función inteligentes, lo que le permite concentrarse en sus diseños en lugar de en una hoja de trucos de pulsaciones de teclas.

Simplemente mantenga presionada cualquiera de las cuatro teclas de funciones inteligentes de SpaceMouse Pro Wireless para activar la visualización en pantalla.

### **Vea su trabajo desde todos los ángulos**

Detecte errores, explore alternativas y presente su trabajo de manera más efectiva para su revisión con la tapa del controlador SpaceMouse Pro Wireless 6DoF y las teclas QuickView. Deshabilite los ejes de rotación con solo tocar un botón en modos de trabajo como dibujar para la navegación simultánea de panorámica y zoom. Cualquiera que sea su ángulo, SpaceMouse Pro Wireless le brinda el poder de ver la imagen completa.

### **Minimice los movimientos de las manos**

Los modificadores de teclado convenientemente ubicados brindan un acceso rápido y fácil a las funciones Control, Shift, Alt y Esc, lo que reduce el tiempo que dedica a mover la mano hacia el teclado.

### **Ergonomía y calidad de construcción de clase mundial**

Los profesionales del 3D de todo el mundo confían en los dispositivos de 3Dconnexion para hacer su trabajo. Eso significa que la ergonomía de clase mundial y la calidad de construcción vienen de serie. El SpaceMouse Pro Wireless tiene un reposamanos de tamaño completo y revestimiento suave para una máxima comodidad. Cada uno de sus 15 botones táctiles totalmente programables está perfectamente posicionado para una máxima eficiencia, empaquetado en un diseño diseñado por expertos con componentes de la más alta calidad.

### **Conectividad Flexible**

Conecte el receptor universal directamente a su estación de trabajo o use el concentrador USB de dos puertos (incluido como estándar). Con la opción de dos cables USB, es fácil conectar y cargar SpaceMouse Pro Wireless sea cual sea la configuración de su escritorio.

### **Estuche de transporte incluido**

Con una estación de trabajo móvil, a menudo cambia de ubicación y necesita protección para su dispositivo móvil. Incluimos un estuche de transporte compacto y liviano con una superficie duradera para su SpaceMouse Pro Wireless.

## Especificaciones técnicas

- Dimensiones (LxAxAI): 204 x 142 mm x 58 mm / 8" x 5,6" x 2,3"
- Peso: 563 g / 1,24 libras / 19,86 onzas -  
3 años de garantía

## Sistemas operativos compatibles

MS Windows 10, MS Windows 8.1, MS Windows 7, macOS 10.10 o posterior

## contenidos del paquete

ratón espacial\*Estuche de transporte inalámbrico  
profesional  
Receptor universal USB de 2,4 GHz  
Concentrador USB de dos puertos  
Cable USB de 1,5 m  
Cable USB de 0,5 m

## Certificaciones y Registros

CE, FCC, IC, RCM, WPC, BSMI, NCC, KC, MIC, RAEE, RoHS

## Características y funciones

- Conexión 3D\*sensor de seis grados de libertad (6DoF)
- Conexión 3D\*Tecnología inalámbrica de 2,4 GHz - Batería de polímero de iones de litio (interna, recargable)
- Conectividad USB (opción de cables suministrados). Datos y recarga simultáneos.
- Reposamanos de tamaño completo con revestimiento suave
- Teclas de vista rápida
- Tecla de cambio de rotación
- Teclas de funciones inteligentes
- Visualización en pantalla
- Modificadores de teclado (Ctrl, Alt, Shift, Esc)
- Teclado numérico virtual
- 15 teclas programables en total