



# HP Sales Central

## HP Z4 G4 Workstation (9DK01PA)

Active as of 31/10/2019



### Overview

#### HP's best-selling performance workstation

Perfect for engineering, visualization and Machine Learning, HP's most popular workstation delivers disruptive performance for a wide spectrum of applications. With a choice of Intel® Xeon® or Core™ X processors, and support for dual extreme graphics, you get all you need, nothing more.

#### Feature-rich functionality

The Z4 is ahead of its time with more standard features than any other single processor HP workstation. With multiple configuration options, you can choose the perfect blend of components that meet your performance requirements.

#### HP's most secure workstations

Advanced security features come standard on every Z4. Rest assured your device, identity and data are safe with security software like HP Client Security Suite Gen3<sup>2</sup> and HP Sure Start Gen3<sup>10</sup> featuring a self-healing BIOS.

#### Visualization powerhouse

Visualize your project anytime with the power to move seamlessly between 3D CAD, rendering and simulation applications. The Z4 can easily handle tasks that require high frequency processing, multiple cores and high-powered GPUs for an optimized design process.

## Specifications

#### Operating system

Windows 10 Pro 64

#### Processor family

Intel® Xeon® W processor

#### Processor

Intel® Xeon® W-2104 with Intel® HD Graphics P630 (3.2 GHz base frequency, 8.25 MB cache, 4 cores)<sup>6</sup>

#### MDA key selling point

Windows 10 Pro or other operating systems available

#### Number of processors

1

#### Chipset

Intel® C422; Intel® X299

#### Environmental

Low halogen

#### Security management

Full volume encryption; HP Keyed Cable Lock Kit; HP Secure Erase; HP Sure Start Gen3; Kensington lock slot; Secure authentication; TPM 2.0 certified; HP Device Access Manager; HP Sure Click; HP BIOSphere Gen3; HP

Client Security Manager Gen3; HP MIK/SCCM Gen2; Self Encrypting Drive (SED)

**Memory**

16 GB DDR4-2666 ECC SDRAM (1 x 16 GB)

**Memory Slots**

8 DIMM

**Internal drive bays**

Two 2.5" or 3.5"

**External drive bays**

One slim ODD

**Internal Storage**

512 GB HP Z Turbo Drive PCIe® SSD

**Hard drive (2nd)**

1 TB 7200 rpm SATA

**Storage controller**

Integrated SATA 6.0 Gb/s supporting RAID 0, 1, 5, 10; Optional SAS controller supporting RAID, 0, 1, 10 for SAS drives

**Optical drive**

9.5 mm Slim DVD-Writer

**Compatible displays**

All HP Z Displays and HP DreamColor Displays are supported. For more information see

[www.hp.com/go/zdisplays](http://www.hp.com/go/zdisplays).

**I/O Port location**

Front

**Ports**

1 headset connector; 4 USB 3.1 (1 charging)

*(The Intel® Core™ X-Series processor configurations only have one RJ45 port and 5 Rear USB 3.1 Gen 1 ports available. The serial port is optional.)*

**I/O Port location**

Front (Premium version)

**Ports**

1 headset connector; 2 USB 3.1 Gen 2 Type-C™; 2 USB 3.1 Gen1 (1 charging)

**Expansion slots**

2 PCIe 3 x4, 2 M.2 PCIe 3 x4, 1 PCIe x8, 2 PCIe x16 (for Intel® Xeon® W configurations); 2 PCIe 3 x4, 1 M.2 PCIe 3 x4, 1 PCIe x8, 2 PCIe x16 (for Intel® Core™ i9-X and Core™ i7-9800X configurations); 2 PCIe 3 x4, 1 M.2 PCIe 3 x4, 1 PCIe x8 (mechanical only), 1 PCIe x16 (x8 electrical), 1 PCIe x16 (for other Intel® Core™ i7-X configurations)

**Network interface type**

LAN

**Network interface**

Integrated Intel® I219-LM PCIe® GbE

**Audio**

Realtek HD ALC221

**Power**

750 W internal power supply, up to 90% efficiency, active PFC

**Minimum dimensions (W x D x H)**

38.6 x 16.9 x 44.5 cm

**Weight**

Starting at 10.2 kg

**Software**

HP Remote Graphics Software (RGS)

**Keyboard**

HP USB Business Slim Keyboard

**Warranty**

3 year (3-3-3) limited warranty and service offering includes 3 years of parts, labor and on-site repair. Terms

and conditions vary by country. Certain restrictions and exclusions apply.

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#### **Overview**

- 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 HP Client Security Suite Gen3 requires Windows and Intel® or AMD 7th Gen processors.
- 3 Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.

#### **Specifications**

- 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.

## Detailed Specifications

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### Accessories

NVIDIA® Quadro® P5000 Z0B13AT, AMD Radeon™ Pro WX 7100 Z0B14AT, HP Z Turbo Drive Quad Pro 2x512 GB N2M99AA, HP Z27n 27-inch Narrow Bezel IPS Display: K7C09A8, HP 5 year Next Business Day Onsite with Defective Media Retention U1G57E

### Additional information on the product category

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

### Audio

Realtek HD ALC221

### Chipset

Intel® C422; Intel® X299

### Chipset footnote number

[26,27]

### Code name

PikeWKS

### Compatible displays

All HP Z Displays and HP DreamColor Displays are supported. For more information see [www.hp.com/go/zdisplays](http://www.hp.com/go/zdisplays).

### Copyright notice

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### Datasheet photo 1

Publication photos/Pike\_Z4\_1.jpg

### Datasheet photo 2

Publication photos/pc-carepack.jpg

### Datasheet photo 3

Publication photos/Pike\_Z4\_3.jpg

### Datasheet photo 4

Publication photos/Pike\_Z4\_4.jpg

### Datasheet photo 5

Publication photos/Pike\_Z4\_5.jpg

### Datasheet publication number

4AA7-1580EEAP

### Drive bays footnote number

[16]

### Environmental

Low halogen

### Environmental specification footnote number

[12]

### Expansion slots

2 PCIe 3 x4, 2 M.2 PCIe 3 x4, 1 PCIe x8, 2 PCIe x16 (for Intel® Xeon® W configurations); 2 PCIe 3 x4, 1 M.2 PCIe 3 x4, 1 PCIe x8, 2 PCIe x16 (for Intel® Core™ i9-X and Core™ i7-9800X configurations); 2 PCIe 3 x4, 1 M.2 PCIe 3 x4, 1 PCIe x8 (mechanical only), 1 PCIe x16 (x8 electrical), 1 PCIe x16 (for other Intel® Core™ i7-X configurations)

### External drive bays

One slim ODD

### Graphics

Discrete

**Graphics (discrete)**

NVIDIA® Quadro® P1000 (4 GB GDDR5 dedicated)

**Hard drive (2nd)**

1 TB 7200 rpm SATA

**I/O Port location**

Front

**I/O Port location**

Front (Premium version)

**I/O Port location**

Rear

**Image legal disclaimer**

Product image may differ from actual product

**Internal drive bays**

Two 2.5" or 3.5"

**Internal Storage**

512 GB HP Z Turbo Drive PCIe® SSD

**Keyboard**

HP USB Business Slim Keyboard

**Legal tagline**

HP recommends Windows 10 Pro for business

**MDA key selling point**

Windows 10 Pro or other operating systems available

**Memory**

16 GB DDR4-2666 ECC SDRAM (1 x 16 GB)

**Memory and storage**

16 GB memory; 1 TB HDD storage; 512 GB SSD storage

**Memory Slots**

8 DIMM

**Minimum dimensions (W x D x H)**

38.6 x 16.9 x 44.5 cm

**Network interface**

Integrated Intel® I219-LM PCIe® GbE

**Network interface type**

LAN

**Number of processors**

1

**Operating system**

Windows 10 Pro 64

**Optical drive**

9.5 mm Slim DVD-Writer

**Pointing device**

HP USB Optical Mouse

**Ports**

1 audio-in; 1 audio-out; 1 PS/2 keyboard port; 1 PS/2 mouse port; 1 serial; 2 RJ-45 (1 GbE); 6 USB 3.1 Gen 1

**Ports**

1 headset connector; 2 USB 3.1 Gen 2 Type-C™; 2 USB 3.1 Gen1 (1 charging)

**Ports**

1 headset connector; 4 USB 3.1 (1 charging)

**Ports note**

The Intel® Core™ X-Series processor configurations only have one RJ45 port and 5 Rear USB 3.1 Gen 1 ports available. The serial port is optional.

**Power**

750 W internal power supply, up to 90% efficiency, active PFC

**Power supply required footnote number**

[22]

**Processor**

Intel® Xeon® W-2104 with Intel® HD Graphics P630 (3.2 GHz base frequency, 8.25 MB cache, 4 cores)

**Processor family**

Intel® Xeon® W processor

**Processor name footnote number**

[6]

**Processor note**

Configurations with the Intel® Core™ X processors support only a subset of the full features of the Z4 G4 system, including, but not limited to: memory type and maximum memory, PCIe slot configurations, M.2 storage capacity, GbE interface and manageability features. Please refer to the product QuickSpecs for complete details.

**Processor speed**

3.2 GHz

**Product long name specifications**

HP Z4 G4 Workstation with Windows 10 Pro 64; Intel® Xeon® W-2104 with Intel® HD Graphics P630 (3.2 GHz base frequency, 8.25 MB cache, 4 cores); 16 GB DDR4-2666 ECC SDRAM (1 x 16 GB); 1 TB 7200 rpm SATA, 512 GB HP Z Turbo Drive PCIe® SSD

**Quickspec**

<http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c05527757>

**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**

Full volume encryption; HP Keyed Cable Lock Kit; HP Secure Erase; HP Sure Start Gen3; Kensington lock slot; Secure authentication; TPM 2.0 certified; HP Device Access Manager; HP Sure Click; HP BIOSphere Gen3; HP Client Security Manager Gen3; HP MIK/SCCM Gen2; Self Encrypting Drive (SED)

**Security management footnote number**

[7,14,15,17,18,28]

**Services (Care Pack)**

Receive 5 years of next business day onsite repair from an HP-qualified technician for your computing device, if the issue cannot be solved remotely. For more information on Care Pack services, please visit

[www.hp.com/go/cpc](http://www.hp.com/go/cpc).

**Software**

HP Remote Graphics Software (RGS)

**Software footnote number**

[13,31]

**Standard memory note**

Transfer rates up to 2666 MT/s.

**Storage controller**

Integrated SATA 6.0 Gb/s supporting RAID 0, 1, 5, 10; Optional SAS controller supporting RAID, 0, 1, 10 for SAS drives

**Storage type**

HDD; SSD

**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] Optional or add-on feature.

**Tech spec footnote**

[11] 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.

**Tech spec footnote**

[12] 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**

[13] HP Remote Graphics Software requires network connection. Performance dependent on network latency and image frame content.

**Tech spec footnote**

[14] HP BIOSphere G3 requires Intel® 7th generation processors.

**Tech spec footnote**

[15] HP Secure Erase: For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method.

**Tech spec footnote**

[16] Each bay is configurable to 2.5" or 3.5".

**Tech spec footnote**

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

**Tech spec footnote**

[18] HP Keyed Cable Lock Kit is available only as an aftermarket option.

**Tech spec footnote**

[19] NVIDIA® Quadro® SYNC II sold separately

**Tech spec footnote**

[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.

**Tech spec footnote**

[20] I210-AT, I219-V are available in Intel® Xeon® configurations only.

**Tech spec footnote**

[21] 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>.

**Tech spec footnote**

[22] 465W and 750W power supply options are only available for Intel® Xeon® configurations.

**Tech spec footnote**

[23] Supported only on Intel® Xeon® configurations: Not supported with Intel® Core X™ processor configurations.

**Tech spec footnote**

[24] Available on Intel® Xeon® W processor configurations only.

**Tech spec footnote**

[25] Available on Intel® Core™ i7X-Series processor configurations only.

**Tech spec footnote**

[26] Choice of Intel Core X processor family will affect other configuration choices and system feature set availability; refer to the product Quickspecs for details.

**Tech spec footnote**

[27] Intel® C422 for Intel® Xeon® configurations, Intel® X299 for Intel® Core™ X configurations.

**Tech spec footnote**

[28] HP Sure Click is available on most HP PCs and supports Microsoft® Internet Explorer, Google Chrome, and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office or Adobe Acrobat are installed.

**Tech spec footnote**

[29] 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](http://www.intel.com/technology/turboboost) for more information.

**Tech spec footnote**

[3] Some Intel® 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. Intel vPro is supported only with Intel® Xeon™ configurations.

**Tech spec footnote**

[30] Your product does not support Windows 8 or Windows 7. 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>

**Tech spec footnote**

[31] HP Performance Advisor – Internet access required.

**Tech spec footnote**

[32] For detailed Linux® OS/hardware support information, see: [http://www.hp.com/linux\\_hardware\\_matrix](http://www.hp.com/linux_hardware_matrix)

**Tech spec footnote**

[4] 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.

**Tech spec footnote**

[5] 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.

**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] HP Client Security Manager G3 - Requires Windows and Intel® 7th or 8th generation processors.

**Tech spec footnote**

[8] For systems installed with Microsoft Windows 7 (Ultimate, Enterprise or Professional), the maximum accessible system memory is 192 GB. Windows 7 is not supported on the Intel® Core X™ - Series processor configurations. Windows 7 is not supported on the Intel® Core X™ - Series processor configurations. For systems installed with Microsoft Windows 8.x (Enterprise or Pro), the maximum accessible system memory is 512 GB.

**Tech spec footnote**

[9] 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.

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**UNSPSC code**

43211515

**Warranty**

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

**Weight**

Starting at 10.2 kg

**Weight note (metric)**

Exact weight depends on configuration.

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