

HP Z1 G2 Workstation



All-in-One evolution

The HP Z1 G2 Workstation is HP's elegant and innovative all-in-one workstation with a large-screen display. Easily modify and change most components—no tools required.¹ Unleash your creativity with accelerated performance and world-class reliability. Customize your display with optional 10-point touch technology in a stunning edge-to-edge glass design.²



HP recommends Windows.

Spark creativity.

- Bring ideas to life faster than ever with the Intel® Xeon® processor, NVIDIA Quadro graphics, ECC memory and a wide range of ISV certifications.
- Be wowed and do more with features enabled by HP's cutting-edge engineering, including a high-end professional MXM Graphics cooling module, optional multiple hard drives² and an adjustable custom display stand.
- Connect in a flash and strike productivity with optional high-performance Thunderbolt™ 2.0 ports^{2,3} located on the side of the HP Z1 G2 for easy accessibility.
- Take computing performance to another level with more efficient processing thanks to 4th generation Intel® Core/Xeon E3 processors⁴.
- A wide range of professional 3D graphics options from NVIDIA give you the confidence that you're working with the very best tools available. Or, choose Intel's new integrated graphics for the ultimate visual experience.^{2,5}

Powerful and refined.

- Change most components¹ or make upgrades on your own without tools or a service technician. Simply snap open the chassis and customize to fit your needs.
- Your most frequently used data is quickly accessible on the HP Z1 G2 Workstation with optional mSATA storage technology that provides fast storage and cache for OS and applications.²
- Easily plug in devices to accessible I/O ports and enjoy the simplicity of push button display movement into and out of service mode on the HP Z1 G2 Workstation.
- Treat your ears to premium audio features on the HP Z1 G2 Workstation, including dual cone, front-facing speakers and DTS Studio Sound.

Versatile view.

- Reach for success on the HP Z1 G2 Workstation with the optional 10-point touchscreen.² Get creativity flowing and let your fingers fly over the stunning edge-to-edge glass display.
- Step into the light. Reduce reflection and work with clarity on the HP Z1 G2 Workstation with no-glass, anti-glare display.²
- Your work never looked better. Let your ideas shine on the HP Z1 G2 Workstation Next Generation 68,6 cm (27") diagonal IPS display (2560x1440).



HP Z1 G2 Workstation Specifications Table

HP recommends Windows.



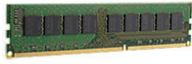
| | |
|-------------------------------------|---|
| Form Factor | All-in-One |
| Operating System | Windows 8.1 Pro 64 ¹⁶ Windows 8.1 64 ¹⁶ Windows 8.1 Single Language 64 ¹⁶ Windows 7 Professional 64 (available through downgrade rights from Windows 8.1 Pro) ¹ Windows 7 Professional 64 ¹⁶ SUSE Linux Enterprise Desktop 11 HP Installer Kit for Linux |
| Processor Family | Intel® Xeon® E3 processor; Intel® Core™ i5 processor; Intel® Core™ i3 processor ² |
| Processors² | Intel® Xeon® E3-1281v3 (3.7 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1246v3 with Intel HD Graphics P4600 (3.5 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1226v3 with Intel HD Graphics P4600 (3.3 GHz, 8 MB cache, 4 cores); Intel® Core™ i7-4790 with Intel HD Graphics 4600 (3.6 GHz, 8 MB cache, 4 cores); Intel® Core™ i5-4590 with Intel HD Graphics 4600 (3.3 GHz, 6 MB cache, 2 cores); Intel® Core™ i3-4160 with Intel HD Graphics 4400 (3.6 GHz, 3 MB cache, 2 cores); Intel® Core™ i3-4150 with Intel HD Graphics 4400 (3.5 GHz, 3 MB cache, 2 cores) |
| Chipset | Intel® C226 |
| Maximum Memory | Up to 32 GB 1866 MHz DDR3 Unbuffered SDRAM ^{7,8,9} Standard memory note: Supports up to 32 GB ECC or 16 GB non-ECC unbuffered DDR3 1866 MHz DIMMs. Actual memory speed is controlled by the processor. |
| Memory Slots | 4 DIMM |
| Internal Storage | 500 GB up to 3 TB SATA (7200 rpm) ^{3,4} 180 GB up to 1 TB SATA SSD ^{3,4} up to 256 GB mSATA SSD ^{3,4} up to 256 GB SATA SE SSD ^{3,4} |
| Optical Storage | Slim tray-load Blu-ray writer; Slim tray-load DVD-ROM; Slim tray-load DVD RW SuperMulti writer ^{5,6,15} |
| Drive Bays (Internal) | One 8,9 cm (3.5") or two 6,3 cm (2.5") |
| Display | 68,6 cm (27") diagonal IPS LED backlit widescreen LCD with 2 MP 1080p webcam and optional touch (2560 x 1440) |
| Available Graphics | Integrated: Intel® HD Graphics P4600; Intel® HD Graphics 4600; Intel® HD Graphics 4400 Entry 3D: NVIDIA Quadro K610M (1 GB) Mid-range 3D: NVIDIA Quadro K2100M (2 GB) High End 3D: NVIDIA Quadro K3100M (4 GB); NVIDIA Quadro K4100M (4GB) If a discrete graphics card is installed, Intel integrated graphics is disabled. All discrete graphics cards are PCIe. |
| Expansion Slots | 1 MXM; 2 mini-PCIe mSATA (full-length); 1 SD 4.0 media card reader MXM slot is dedicated for graphics. All slots are low profile. |
| Ports and Connectors | 1 USB 3.0; 1 USB 3.0 (charging); 4 USB 2.0; 1 headphone; 1 microphone; 1 DisplayPort 1.1; 1 RJ-45; 1 subwoofer; 1 optical S/PDIF; 1 audio line in; 1 audio line out ^{13,14} 2 Thunderbolt™ 2 ports via optical bay module (optional). Available internal I/O ports include: USB 2.0 Type A and 2 USB 2.0 on 9-pin header. |
| Communications | Integrated Intel I217LM PCIe Gigabit controller; Integrated Intel dual-band AC 7260 802.11 ac wireless LAN & Bluetooth 4 combo card ¹⁰ |
| Audio | Intel HD / IDT 92HD68 codec with two 4 W stereo speakers and DTS Studio Sound |
| Power | 400 W 90% efficient, wide-ranging, active power factor correction |
| Input Device | HP USB CCID SmartCard Keyboard; HP USB Keyboard; HP Wireless Keyboard and Mouse HP USB Laser Mouse |
| Security | HP Chassis Intrusion Sensor; HP Keyed Cable Lock Kit (optional) |
| Software | HP Performance Advisor; HP Remote Graphics Software 6.0; PDF Complete Corporate Edition; HP Client Security; Buy Office ¹² |
| Dimensions | 66.04 x 41.91 x 52.83 cm With stand |
| Weight | 21.32 kg Maximum system weight with stand. Exact weight depends upon configuration. |
| Energy Efficiency Compliance | ENERGY STAR® certified configurations available |
| Environmental Certification | Low halogen ¹¹ |
| Warranty | 3-year limited warranty including 3 years of parts, labour, and next-business-day onsite service. Terms and conditions vary by country. Certain restrictions and exclusions apply. |

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Accessories and services (not included)

HP 4GB (1x4GB) DDR3-1866 MHz ECC RAM



Boost the capabilities of your HP Workstation and newest multi-core processors. Choose ultra-fast 2 GB, 4 GB, 8 GB, or 16 GB 1866 MHz DDR3 memory from HP, a cost-effective way to improve system performance and application responsiveness.

Product number: E2Q91AA

HP Thunderbolt 2-Port AiO Module



Ultra-fast backup, editing, and file sharing, while reducing your time on tasks on select HP Z Workstations with this 2-port module driven by Thunderbolt™ 2 technology. Power through projects with data transfer speeds nearly 4x that of USB 3.0.

Product number: E5Z73AA

NVIDIA Quadro K2100M 2GB Graphics Card



Deliver impressive graphics and multi-display performance with the NVIDIA Quadro K2100M graphics board. It's an excellent choice for medium complexity designs and models in professional CAD, Media & Entertainment, and visualization applications.

Product number: E5Z75AA

5-year Next Business Day Onsite



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.

Product number: U7944E

Learn more at

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Messaging Footnotes:

¹ The power supply, graphics card, hard drives, optical drive, system cooling blower, and memory can be accessed, and removed without tools. Tools may be required for all other components.

² Sold separately or as an optional feature.

³ Thunderbolt is new technology. Thunderbolt cable and Thunderbolt device (sold separately) must be compatible with Windows. To determine whether your device is Thunderbolt Certified for Windows, see <https://thunderbolttechnology.net/products>.

⁴ 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. 64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel® 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Intel's numbering is not a measurement of higher performance.

⁵ Graphics options and support vary by region.

Technical Specifications Footnotes:

¹ This system is preinstalled with Windows® 7 Pro software and also comes with a license and media for Windows 8.1 Pro software. 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.

² 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. 64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel® 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Intel's numbering is not a measurement of higher performance.

³ SATA hardware RAID is not supported on Linux systems. The Linux kernel, with built-in software RAID, provides excellent functionality and performance. It is a good alternative to hardware-based RAID. Please visit h20000.www2.hp.com/bc/docs/support/SupportManual/c00060684/c00060684.pdf for RAID capabilities with Linux.

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.

⁵ As Blu-ray contains new technologies, 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 workstation.

⁶ Actual speeds may vary. Does not permit copying of commercially available DVD movies or other copyright protected materials. Intended for creation and storage of your original material and other lawful uses. Note that DVD-RAM cannot read or write to 2.6 GB Single Sided/5.2 GB Double Sided – Version 1.0 media.

⁷ Each processor supports up to 2 channels of DDR3 memory. To realize full performance at least 1 DIMM must be inserted into each channel.

⁸ Intel® Xeon® E3 and Intel® Core™ i3 processors can support either ECC or non-ECC memory. Intel® Core™ i5 and i7 processors only support non-ECC memory.

⁹ The CPU determines the speed at which the memory is clocked. If a 1600 MHz capable CPU is used in the system, the maximum speed the memory will run at is 1600 MHz regardless of the specified speed of the memory.

¹⁰ Wireless access point and Internet service required. Availability of public wireless access points limited.

¹¹ This product is low halogen except for power cords, cables and peripherals. Service parts obtained after purchase may not be low halogen.

¹² HP Performance Advisor and HP Remote Graphics Software require internet access.

¹³ Sold separately or as an optional feature.

¹⁴ Thunderbolt™ 2 is planned to be available via an optional add-in card in early 2014 on the Z1 G2. Thunderbolt is new technology. Thunderbolt cable and Thunderbolt device (sold separately) must be compatible with Windows. To determine whether your device is Thunderbolt Certified for Windows, see <https://thunderbolttechnology.net/products>

¹⁵ Optical drive is not available if Thunderbolt™ 2 is selected.

¹⁶ Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows functionality. See <http://www.microsoft.com>.

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