

HP Z240 Tower and SFF Workstation FAQs



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What are the new workstations?

HP Z240 Workstations

The world's number one choice for entry level workstations features a choice of Tower or Small Form Factor (SFF) configurations.¹ The HP Z240 packs the performance, features and reliability of a workstation into the price point of a desktop PC. Powerful processors, graphics, memory and up to two ultra-fast HP Z Turbo Drive G2s² make the HP Z240 a true workstation-class solution. Handle your growing and complex workloads with performance for any stage of your work process. HP's most affordable workstation allows you to customize your experience while still balancing your IT budget. HP's reliability, thorough testing, and ISV certifications means your HP Z240 is designed as a long-term budget-friendly solution.

HP Z240 Tower Workstation

Get monster-class performance with support for up to 4.5 GHz of processing power, plus the essential features of the HP Z240 Tower to easily support your workload with slots and ports to spare. When you're ready for workstation-class features like professional ISV certifications, the HP Z240 Tower is the right first step.

HP Z240 SFF Workstation

Take back your workspace. At 57% smaller than the Tower, the HP Z240 SFF conserves space and maintains workstation performance. And with HP's no compromise reliability, your HP Z240 is designed to work today and well into the future.

What products are the HP Z240 Tower and SFF replacing?

- The HP Z240 Tower Workstation is replacing the HP Z230 Tower Workstation
- The HP Z240 SFF Workstation is replacing the HP Z230 SFF Workstation

Where does the HP Z240 Tower and SFF fit within the overall HP Z Workstation family?

The HP Z240 Tower and SFF were designed to offer workstation performance in a compact and affordable design. These systems come equipped with next-generation Intel® processors, professional graphics, flexible I/O options, HP Z Turbo Drive G2, and up to 64 GB DDR4 memory. The HP Z240 family is the perfect entry-level workstation for customers that demand a high quality, performance-driven system while maintaining a budget.

What are the key differences between the HP Z230 and the HP Z240?

The next generation HP Z240 comes with the latest generation Intel® processors¹⁶, along with the next generation Intel® chipset, and NVIDIA® and AMD graphics cards.

	HP Z230 Workstations	HP Z240 Workstations
Processors ^{3,4}	Intel® Xeon® processor E3/1200 v3 product family Intel® Core™ i3/i5/i7 4th Generation processor family	Intel® Xeon® E3-1200 v5/v6 series Intel® Core™ i3/i5/i7 6th and 7th Generation processor family
Chipset	Intel® C226	Intel® C236
Graphics	NVIDIA® Quadro® AMD FirePro™	NVIDIA® Quadro® (latest generation) AMD FirePro™ (next generation)
Memory ⁴	Up to 32 GB DDR3 ECC Unbuffered 1600 MHz	Up to 64 GB DDR4 ECC Unbuffered 2133, 2400 MHz
USB	HP Z230 SFF Front: 2 x USB 2.0, 2 x USB 3.0 Rear: 4 x USB 2.0, 2 x USB 3.0 HP Z230 Tower Front: 2 x USB 2.0, 2 x USB 3.0 Rear: 4 x USB 2.0, 2 x USB 3.0	HP Z240 SFF Front: 2 x USB 2.0, 2 x USB 3.0 Rear: 6 x USB 3.0 HP Z240 Tower Front: 2 x USB 2.0, 2 x USB 3.0 Rear: 4 x USB 2.0, 2 x USB 3.0

PCI slots ⁵	HP Z230 SFF 1 PCIe Gen 3 x16 2 PCIe Gen 3 x1 (x1 connector) 1 PCIe Gen 3 x4 (x16 connector)	HP Z240 SFF 1 PCIe Gen 3 x16 2 PCIe Gen 3 x1 (x1 connector) 1 PCIe Gen 3 x4 (x16 connector)
	HP Z230 Tower 1 PCIe Gen 3 x16 1 PCIe Gen 2 x4 (x16 mechanically) 2 PCIe Gen 2 x1 1 PCI legacy 32-bit	HP Z240 Tower 1 PCIe Gen 3 x16 1 PCIe Gen 3 x4 (x16 mechanically) 1 PCIe Gen 3 x4 (x4 mechanically) 1 PCIe Gen 3 x1 1 PCI legacy 32-bit (optional)
	HP Z230 Workstations	HP Z240 Workstations
Chassis	HP Z230 SFF (HxWxD) 13.3" x 3.95" x 15.1" 337 mm x 100 mm x 384 mm	HP Z240 SFF (HxWxD) 13.3" x 3.95" x 15.1" 337 mm x 100 mm x 384 mm
	HP Z230 Tower (HxWxD) 15.7" x 6.7" x 17.4" 399 mm x 170 mm x 442 mm <4U in rack Optional front handle	HP Z240 Tower (HxWxD) 15.7" x 6.7" x 17.4" 399 mm x 170 mm x 442 mm <4U in rack Integrated front handle ledge and rear ledge Optional front handle
LAN	2 x integrated GbE LAN	1 x integrated GbE LAN

Note: Changes from HP Z230 highlighted in blue.

Will these products still be considered long-life cycle?

The HP Z240 will have a three year lifecycle.

Will these products have stable and consistent offerings?

Yes, a list of the stable and consistent offerings is found below.

	HP Z240 Tower	HP Z240 SFF
Processor		
Intel® Xeon® E3-1225 v5 4C	•	•
Intel® Xeon® E3-1240 v5 4C	•	•
Intel® Xeon® E3-1245 v5 4C	•	•
Graphics		
NVIDIA® NVS™ 310	•	•
NVIDIA® NVS™ 510	•	•
NVIDIA® Quadro® K620	•	•
NVIDIA® Quadro® K2200	•	•
AMD® FirePro™ W2100	•	•
Storage		
500 GB SATA 7200 RPM	•	•
1 TB SATA 7200 RPM	•	•
Optical device		
Slim SuperMulti DVD/RW	•	•
System memory		
4 GB DDR3-2133 ECC DIMM	•	•
8 GB DDR3-2133 ECC DIMM	•	•

What are the key differences between the HP Z230 and the HP Z240?

The next generation HP Z240 comes with 6th and 7th generation Intel® Core™ processors¹⁶, Intel® Xeon® E3-1200 v5/v6 processors, the next generation Intel® chipset, and NVIDIA® and AMD graphics cards.

Will these products be offered as global series SKUs?

We have components that are offered globally but do not have a specific SKU set that is defined as global. This gives the regions more flexibility in their configurations and offerings.

Will these products be offered worldwide?

Yes, both the SFF and the Tower version of the HP Z240 products will be offered worldwide.

Why should I transition from the HP Z230 to the HP Z240 product?

The latest processors, graphics cards and memory configurations will increase performance and expandability for customers, giving you a leg up in your industry through leading technology. With the HP Z240 Tower & SFF, professionals can connect faster and transfer more data through upgraded I/O expansion, such as the embedded M.2 slot, which enables you to configure an HP Z Turbo Drive G2 without having to make a tradeoff on graphics. You also have the option to configure your system with a dust filter in the front bezel, which can help to prevent the ingress of potentially harmful materials into the system. HP Z240 Workstations also provide future expandability and compatibility with upcoming products such as graphics cards and leading software from HP's certified Independent Software Vendors (ISVs).

What testing and reliability has been built into the HP Z240 Workstations?

At HP, we recognize that professionals can't settle for anything less than the highest levels of reliability. That's why we design our workstations to meet the challenges of the most demanding application workloads and duty cycles—an HP focus for the past 30 years. Today, our three decades of workstation engineering innovation have paid off in a level of reliability that is widely recognized in the industry. HP Workstations are designed for heavy usage and are fully tested with and certified for a broad variety of professional applications in Product Development, AEC, Financial Services, Media and Entertainment, and many other segments. For added reliability, we have created an optional dust filter (cleanable and serviceable) for customers to install into the front of the system to reduce the amount of dust being pulled into the system.

Please refer to the "Building Reliability into HP Workstations" white paper for detail on how HP tests workstation products: h20195.www2.hp.com/V2/GetPDF.aspx/4AA4-3573ENW.pdf

Which segments are the HP Z240 Workstations targeted at?

- Although the HP Z240 SFF targets the Product Development, Finance, Education, OEM and Government customer segments, this product is designed to meet a variety of needs in all customer segments
- The HP Z240 Tower is targeted towards Product Development, Media and Entertainment, Oil and Gas, OEM, and Healthcare as the primary segments, though this workstation is designed to meet the needs of customers in all industry segments

Why should someone in these segments buy or upgrade their products to the HP Z240?

The HP Z240 series offers a wide span of technology, innovation and performance that customers will not find in other workstations. With all of the upgraded and supported components, professionals in any industry will be able to appreciate the speed, reliability, and configurability of HP Workstations to bridge the gap between concepts and finished products faster, with more ease and less down time.

What segment positioning differences are there between the HP Z230 and the HP Z240 products?

The HP Z240 platforms represent an evolutionary step forward in the HP Workstation product line that provides overall improved performance. As such, there is no change in the market segments addressed by the HP Z240 platform and its HP Z230 predecessor.

What key benefits can HP Workstation users realize over PC solutions?

Customers receive many incremental benefits as they look to move from a PC up to a workstation-class product. As a long-time industry leader in workstations, HP offers more configurability upfront and the ability to easily upgrade or replace parts with a tool-free chassis design that decreases servicing down time. Workstations are also designed and tested to a higher standard than commercial PCs and are built for a five year life. HP Z Workstation users receive more flexibility with their system because HP has already certified their machines with ISVs to ensure a wide range of programs run seamlessly.

Design, processor, memory

What processors does the HP Z240 offer?

The following shows the current offerings for processors. Processor options are the same on the HP Z240 SFF and HP Z240 Tower versions with the exception of the Intel® Core™ i7 K-series processors.

Remember, monster-class performance is now available on the HP Z240 Tower:

- Intel® Core™ i7-7700K with Intel® HD Graphics 630 (4.2 GHz, up to 4.5 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores)
- Intel® Core™ i7-6700K processor with Intel® HD Graphics 530 (4.0 GHz, up to 4.2 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores)

Name	Cores	Clock Speed (GHz)	Intel® Turbo Boost Technology ¹	Cache (MB)	Memory Speed (MHz)	Hyper-Threading	Integrated Graphics	Featuring Intel® vPro™ Technology	TDP (W)
Intel® Xeon® processor E3-1270 v6	4	3.8	4.2	8	2400	Y	Intel® HD Graphics P630	Y	80 W
Intel® Xeon® processor E3-1245 v6	4	3.7	4.1	8	2400	Y	Intel® HD Graphics P630	Y	80 W
Intel® Xeon® processor E3-1240 v6	4	3.7	4.1	8	2400	Y	Intel® HD Graphics P630	Y	80 W
Intel® Xeon® processor E3-1230 v6	4	3.5	3.9	8	2400	Y	Intel® HD Graphics P630	Y	80 W
Intel® Xeon® processor E3-1225 v6	4	3.3	3.7	8	2400	N	Intel® HD Graphics P630	Y	80 W
Intel® Xeon® processor E3-1205 v6	4	3.0	N/A	8	2400	N	Intel® HD Graphics P630	Y	65 W
Intel® Xeon® processor E3-1270v5	4	3.6	4.0	8	2133	Y	N/A	Y	80 W
Intel® Xeon® processor E3-1245v5	4	3.5	3.9	8	2133	Y	Intel® HD Graphics P530	Y	80 W
Intel® Xeon® processor E3-1240v5	4	3.5	3.9	8	2133	Y	N/A	Y	80 W
Intel® Xeon® processor E3-1230v5	4	3.4	3.8	8	2133	Y	N/A	Y	80 W
Intel® Xeon® processor E3-1225v5	4	3.3	3.7	8	2133	N	Intel® HD Graphics P530	Y	80 W
Intel® Core™ i7-7700K processor (TWR only)	4	4.2	4.5	8	2400	Y	Intel® HD Graphics 630	N	91 W
Intel® Core™ i7-7700 processor	4	3.6	4.2	8	2400	Y	Intel® HD Graphics 630	Y	65 W
Intel® Core™ i5-7600 processor	4	3.5	4.1	6	2400	N	Intel® HD Graphics 630	Y	65 W
Intel® Core™ i5-7500 processor	4	3.4	3.8	6	2400	N	Intel® HD Graphics 630	Y	65 W
Intel® Core™ i3-7100 processor	2	3.9	N/A	3	2400	N	Intel® HD Graphics 630	N	51 W
Intel® Pentium™ G4560 processor	2	3.5	N/A	3	2400	N	Intel® HD Graphics 630	N	54 W
Intel® Core™ i7-6700K processor (TWR only)	4	4.0	4.2	8	2133	Y	Intel® HD Graphics 530	N	91 W
Intel® Core™ i7-6700 processor	4	3.4	4.0	8	2133	Y	Intel® HD Graphics 530	Y	65 W
Intel® Core™ i5-6600 processor	4	3.3	3.9	6	2133	N	Intel® HD Graphics 530	Y	65 W
Intel® Core™ i5-6500 processor	4	3.2	3.6	6	2133	N	Intel® HD Graphics 530	Y	65 W
Intel® Core™ i3-6300 processor	2	3.8	N/A	4	2133	Y	Intel® HD Graphics 530	N	51 W

¹The specifications shown in this column represent the maximum turbo frequency with one core active. Turbo boost stepping occurs in 100 MHz increments. Processors that do not have turbo functionality are denoted as N/A.

What can I expect with the new processors?

Intel® Xeon® processors are purposely built for workstations and servers. They support error-correcting code (ECC) memory logic and are the logical choice for environments where professionals need the performance to work efficiently and accurately by avoiding data corruption and/or computer crashes.

Intel® Core™ processors are designed for commercial PC products and are offered on the HP Z240 with support for vPro™, are ISV certified and are compatible with the workstations chipset. Intel® Core™ processors do not support ECC memory logic. Both of these processor series provide PCI Express connections directly from the processor.

The Intel® Xeon® processor E3 product family (v5 and v6¹⁶) and Intel® Core™ i3/i5/i7 processor family³ (6th and 7th generation¹⁶) support the following features:

- 16 lanes of PCIe Gen 3 I/O (for each processor)
- Intel® Turbo⁶ Mode (allows processor to run faster under certain conditions); not available on all Intel® Core™ processors
- Intel® Hyper-Threading Technology⁷; not available on all Intel® Core™ processors
- 14 nm Silicon Process Technology
- From 3 MB to 8 MB of processor cache; the size of the processor cache is dependent on processor model
- 80 W (Intel® Xeon®), 65 W (Intel® Core™) parts
- Integrated DDR4 memory controller
- 2 channel 2400 MHz DDR4 memory subsystem
- Memory frequency is dependent on processor frequency
- 64 GB memory capacity

Does the end-user have to recompile the applications to see the performance advantages of the new Intel® Xeon® processors?

The new Intel® Xeon® processors are designed for immediate application performance increases due to new processor and memory architecture.

What are the benefits of multi-core processors?

Intel® multi-core processors³ provide greater processing resources. Multi-core processors are ideal for usage models requiring multitasking (running many applications or simulations at once). For example, working on spreadsheets while listening to music with virus checkers and system backups running (power office) or using applications that can split a task across processors (multi-threaded), like animation/rendering in Digital Content Creation.

What do these terms mean?

Dual-core	Each CPU package has exactly two processor cores
Quad-core	Each CPU package has exactly four processor cores
Multi-core	Each CPU package has multiple (2, 4, 6...) processors cores

What is Intel® Turbo Boost Technology 2.0?

Intel® Turbo Boost Technology 2.0⁶ is a way to automatically run the processor core faster than the marked frequency if the part is operating under power, temperature, and current specifications limits of the Thermal Design Power (TDP). This results in increased performance of both single and multi-threaded applications.

How much faster will the processor run with Intel® Turbo Boost Technology 2.0?

The maximum frequency of Intel® Turbo Boost Technology 2.0^{3,6} is dependent on the number of active cores.

The amount of time the processor spends in the Intel® Turbo Boost Technology 2.0 state depends on the workload and operating environment. Any of the following can set the upper limit of Intel® Turbo Boost Technology 2.0 on a given workload:

- Number of active cores
- Estimated current consumption
- Estimated power consumption
- Processor temperature

When the processor is operating below these limits and the user's workload demands additional performance, the processor frequency will dynamically increase until the upper limit of frequency is reached. Intel® Turbo Boost Technology 2.0 has multiple algorithms operating in parallel to manage current, power, and temperature to maximize performance and energy efficiency.

Note: Intel® Turbo Boost Technology 2.0 allows the processor to operate at a power level that is higher than its rated upper power limit (TDP) for short durations to maximize performance.

As an independent and complementary feature, Intel® Hyper-Threading Technology⁸ (Intel® HT Technology) increases performance of both multi-threaded and single threaded workloads.

What memory does the HP Z240 offer?

HP Z240 Workstations supports 4th generation double data rate memory called DDR4.

Are there still 2 memory channels in this architecture?

Yes, there are 2 memory channels.⁴

How much performance boost is expected with the new processors?

The performance seen by a user will vary depending on the application and usage model.

What are the memory capacity differences between the products?

HP Z240 SFF: Up to 64 GB (4 x 16 GB)

HP Z240 Tower: Up to 64 GB (4 x 16 GB)

What are the advantages of DDR4 memory?

DDR4 memory is 2400 MHz, up from 1866 MHz maximum on DDR3 (HP Z230 memory was 1600 MHz).

When the system is running at max capacity, the user could see an increase of up to 14% in speed and higher performance.

Why should a customer transition to DDR4 memory?

New platforms only support DDR4 memory, so it is necessary for this transition.

Why is DDR4 memory more expensive?

DDR4 memory is a new technology with less abundance in computer systems, making it more expensive to produce in lower volumes.

Will DDR4 memory work in the old HP Z230 systems?

No, the HP Z230 systems support only DDR3 memory. DDR3 and DDR4 memory types cannot be intermixed or installed into systems in which they are not supported.

Will DDR3 memory work in the new HP Z240 systems?

No, users will have to transition to DDR4 for the new HP Z240 Workstations.

HP Z240 SFF Workstation

What are the at-a-glance features of the HP Z240 SFF?

- Intel® 6th and 7th generation¹⁶ processors with support for up to four cores
- Windows 10 Pro 64-bit and other editions available⁸
- Intel® C236 chipset
- Intel® Xeon® processor E3 product family (80 W)³
- Intel® Core™ 6th and 7th generation processor family (65 W)
- Improved Intel® Hyper-Threading and Intel® Turbo Boost technologies^{6,7} (only available on select processors)
- Intel® vPro™ Technology⁹
- 4 DIMM slots, up to 64 GB of total DDR4 2400 MHz system memory⁴
- 2 USB 3.0 ports in the front and 6 in the rear
- PCIe Gen 3 lanes on all slots for enhanced I/O capacity
- 240 W 90% or 200 W 85% efficient power supply

- Slim-line optical drive
- Embedded M.2 slot (for HP Z Turbo Drive G2 and enhanced flexibility with I/O slot choices)
- Optional dust filter (serviceable and replaceable)
- HP Remote Graphics Software (HP RGS) included for high-end screen sharing or remote access to a workstation from home

What processors does the HP Z240 SFF offer?

(See table starting on page 5).

How does the HP Z240 SFF compare to the HP Z230 SFF?

Configured with the next generation Intel® 6th and 7th generation¹⁶ processors, NVIDIA® and AMD graphics, and the HP Z Turbo Drive G2, the HP Z240 SFF is faster and more capable to handle professional applications. It also offers more expansion bays, expanded memory, and up to two HP Z Turbo Drive G2s via an embedded M.2 slot on the motherboard. The new dust filter option helps to reduce ingress of dust particles into the system. In comparison, the HP Z240 SFF is more user friendly and a more powerful machine, giving the user more capabilities than the HP Z230 SFF.

What differences do I need to be aware of?

- The media card reader option has been removed; this has been replaced by an optional SD card reader slot in every system.
- The HP Z240 SFF will no longer offer an external 5.25" bay (primarily used for the optical drive). This has been replaced by a slim-line ODD bay.

Why do we continue to offer two power supplies?

Many HP Z240 SFF configurations do not require the amount of power provided by the larger, 240 W power supply. For this reason, we offer customers a 200 W, 85% efficient power supply option that is lower power, lower cost.

HP Z240 Tower Workstation

What are the at-a-glance features of the HP Z240 Tower?

- Intel® 6th and 7th generation¹⁶ processors with support for up to four cores
- Windows 10 Pro 64-bit and other editions available⁸
- Intel® C236 chipset
- Intel® Xeon® processor E3 product family³ up to 80 W
- Intel® Core™ i7-7700K processor with Intel® HD Graphics 630 (91 W)
- Intel® Core™ 6th and 7th generation processor family (65 W)
- Improved Intel® Hyper-Threading and Intel® Turbo Boost technologies^{6,7}
- Intel® vPro™ Technology⁹
- 4 DIMM slots, up to 64 GB of total DDR4 2400 MHz system memory⁴
- 2 USB 3.0 ports on the front and 2 in the rear
- PCIe Gen 3 lanes on all slots for enhanced I/O capacity
- Replaced one of the x1 PCIe slots with a x4 slot for additional expandability
- Standard 400 W 92% or 280 W 90% efficient power supply
- Embedded M.2 slot (for HP Z Turbo Drive G2 and enhanced flexibility with I/O slot choices)
- Optional dust filter (serviceable and replaceable)

HP Remote Graphics Software (HP RGS) included for high-end screen sharing or remote access to a workstation from home

What processors does the HP Z240 Tower offer?

(See table starting on page 5).

How does the HP Z240 Tower compare to the HP Z230 Tower?

The HP Z240 Tower offers all the next generation Intel® processors, NVIDIA® and AMD graphics, and the availability of 2 HP Z Turbo Drive G2s via an embedded M.2 slot on the motherboard. The HP Z240 Tower offers more memory at a higher performance than the HP Z230 Tower. The new dust filter option helps to reduce ingress of dust particles into the system. In comparison, the HP Z240 Tower is more user friendly and a more powerful machine, giving the user more capabilities than the HP Z230 Tower.

What differences do I need to be aware of?

- The HP Z240 Tower reduces the five integrated 6 Gb/s SATA ports to four, but this allows for two HP Z Turbo Drives to increase performance of storage
- The HP Z240 Tower will not have a Legacy PCI slot integrated on the motherboard, but will instead have a PCI slot option that will plug directly into the motherboard

Graphics and displays

What graphics are offered on the HP Z240?

Name	HP Z240 SFF	HP Z240 Tower
NVIDIA® NVS™ 310 512 MB Graphics	√ √	√ √
NVIDIA® NVS™ 315 1 GB Graphics (for HP Workstations)	√ √	√ √
NVIDIA® NVS™ 510 2 GB Graphics	√	√
NVIDIA® Quadro® K420 1 GB Graphics	√ √	√ √
NVIDIA® Quadro® K620 2 GB Graphics	√	√
NVIDIA® Quadro® K1200 4 GB Graphics	√	√
NVIDIA® Quadro® K2200 4 GB Graphics		√
NVIDIA® Quadro® M2000 4 GB Graphics		√
NVIDIA® Quadro® M4000 4 GB Graphics		√
AMD FirePro™ W2100 2 GB Graphics	√	√ √
AMD FirePro™ W5100 4 GB Graphics		√
AMD FirePro™ W7100 8 GB Graphics (AMO ONLY)		√

When will graphics be available?

All of the NVIDIA® and AMD FirePro™ graphics, with the exception of the NVIDIA® Quadro® M4000, will be available at the time of the first shipments. The AMD FirePro™ W7100 will be available as AMO only on the HP Z240 Tower. For more information and updates on graphics solutions, please visit hp.com/go/leadershipgraphics.

What HP Z Displays are supported?

All HP Z Displays and HP DreamColor Displays are supported on the HP Z240 Workstation. For a complete list of HP Z Display options, see hp.com/go/zdisplays.

How many displays can be supported?

Display support depends on the size and number of graphics cards configured in the system.

Drives and storage

What are the storage differences between the HP Z240 and the HP Z230 products?

There are minimal differences in the storage offering between the HP Z240 and HP Z230 products. The most notable change is that the HP Z240 will feature the HP Z Turbo Drive G2 (NVMe-based technology), whereas the HP Z230 offers the HP Z Turbo Drive G1 (AHCI-based technology).

What are the port differences between the HP Z240 and the HP Z230 products?

In the HP Z240 series, the number of SATA controller ports has been reduced from 5 to 4. An embedded M.2 slot was added, allowing for up to 2 HP Z Turbo Drive G2s (HP Z230 products offer one).

How many storage devices does each new HP Z240 support and what is the maximum capacity supported on each?

HP Z240 SFF: 5 total storage drives (including SATA & PCIe drives) are supported as CTO

- 9 TB max storage¹⁰
- 500 GB/1 TB/2 TB/3 TB/4 TB 7200 SATA
- 500 GB SED 7200 SATA
- 256 GB (SED version available as well)/512 GB/1 TB SSD
- 128 GB/256 GB/512 GB/1 TB HP Z Turbo Drive G2
- 128 GB/256 GB/512 GB/1 TB HP Z Turbo Drive G2 TLC

HP Z240 Tower: 5 total storage drives (including SATA & PCIe drives) are supported as CTO

- 13 TB max storage¹⁰
- 500 GB/1 TB/2 TB/3 TB/4 TB 7200 SATA
- 500 GB SED 7200 SATA
- 256 GB (SED version available as well)/512 GB/1 TB SSD
- 128 GB/256 GB/512 GB/1 TB HP Z Turbo Drive G2
- 128 GB/256 GB/512 GB/1 TB HP Z Turbo Drive G2 TLC

Do the HP Z240 products offer support for the HP Z Turbo Drive G2? In what configurations?

The HP Z Turbo Drive G2 is supported in a variety of configurations with additional HDDs and SATA SSDs. The HP Z Turbo Drive G2 can also be used as a boot or data drive and in RAID configurations. Many configurations not listed as factory supported below are technically viable, and can be assembled by the customer with After Market Option (AMO) components.

Here is a summary of supported factory configurations at launch:

- One HP Z Turbo Drive G2 as boot device
- One HP Z Turbo Drive G2 as boot device + SATA HDD/SSD(s)
- One SATA HDD/SSD as boot device + one HP Z Turbo Drive G2 as data device
- One HP Z Turbo Drive G2 as boot device + HP Z Turbo Drive(s) as data device(s)
- One HP Z Turbo Drive as boot device + SATA HDDs as data w/ RAID 0, 1
- Additional supported factory configuration (planned to be available shortly after launch): One SATA HDD/SSD as boot device + two HP Z Turbo Drives as data w/ RAID 0

Do the HP Z240 products support Serial ATA (SATA) and serial attached SCSI (SAS) RAID?

The HP Z240 SFF and Tower support SATA only (no SAS).

Are any of the drives hot swappable?

HP Workstations do not provide the full solution for hot swap of drives.

Is support for Thunderbolt™ 2 offered?

Yes, Thunderbolt™ 2¹¹ is offered and supported as an optional add-in-card.

Operating systems

Which Windows solutions are supported?

HP Z240 Workstations come with the following preinstalled:^{8,12}

- Microsoft Windows 10 Pro 64
- Microsoft Windows 10 Pro 64 Downgrade to Win 7 64
- Microsoft Windows 10 Home 64
- Microsoft Windows 8.1 Pro 64-bit (supported, not preinstalled)

What Linux® solutions are available?

- HP Linux® ready
- Red Hat® Enterprise Linux® Desktop (Paper license with 1 year support; no preinstalled OS)
- SUSE Linux® Enterprise Desktop 11 SP3, 12

Is dual OS preload an option?

Dual OS preload is only available through Custom Integration Services.

What is the HP Installer Kit for Linux®?

The HP Installer Kit for Linux® is FreeDOS with our driver discs included. FreeDOS is a bare-bones OS, intended for those who want to load their own Linux® version.

What value does Linux® bring to HP on personal workstations?

Linux® offers fast, flexible and reliable operating systems for HP Workstations. Designed for organizations requiring security, compatibility, stability and unlimited scalability, Linux® powers millions of computers with enterprise-proven technologies.

Now that we have tremendous mass storage, will we support a server OS?

Server operating systems are not officially supported. For more information, please visit the white paper [here](#).

Software

What manageability features are available on HP Workstations?

HP Workstations meet the industry standard specifications for DASH 1.1 and support Intel® Active Management Technology (AMT) 11.0 and Intel® vPro™ Technology.⁹ Through these programs, IT administrators can remotely control features such as: power management, hardware inventory/alerting (including BIOS and firmware revisions), system defense filters, remote scheduled maintenance, and much more. HP Workstations also support software such as optional LANDesk Management Suite, Microsoft System Center Configurations Manager, and HP Client Automation Enterprise.

What standard software is included (preloaded) with HP Zx40 Workstations?

HP Remote Graphics Software

- HP Remote Graphics Software (RGS) is the remote desktop solution for serious workstation users and their most demanding applications. Best of all, it comes with every new HP Z Workstation
- This advanced tool allows users to access and share the desktop of a remote workstation over a standard network. All applications run natively on the remote workstation and take full advantage of the compute and graphics resources of the sending system
- HP RGS also allows professionals to collaborate in real time with colleagues across the hall or across the continent using graphic intensive applications
- For more details, refer to the RGS [Datasheet](#) and [QuickSpecs](#) at hp.com/go/rgs

HP Performance Advisor

- Designed for non-techies, this ultra-savvy software wizard is the simplest and most effective way to make sure your computer is always operating at its optimum potential. HP Performance Advisor comes pre-installed with every HP Workstation
- Maximize your entire workstation environment with access to the HP certified ISV ecosystem. Workstation optimization can take up to 80 steps, but with HP Performance Advisor, you can do it in two—one-click to improve performance of your key applications and another to select and download certified graphics drivers
- Gain a quick and accurate understanding of your entire system in one simple, intelligent interface. Expedite troubleshooting and eliminate downtime with one-click system reporting. Stay up-to-date with instant access to an extensive library of white papers on your workstation and key applications

Additional preloaded software

- Foxit PhantomPDF Express for HP
- Cyberlink Power DVD (reader)
- Cyberlink Power2Go (burner)

What ISV certifications will be in place?

Please refer to hp.com/go/isv to view the most recent list of ISV certifications for each platform.

Warranty and support

Will the HP Z240 still be covered under HP Elite Support?

HP Z240 Workstations will receive HP Elite support via an onshore call center in the United States and a dedicated support team.

For more information, see hp.com/united-states/campaigns/elite-products/assets/Elite_Premium_Support_FAQ.pdf.

What is the warranty and support for HP Z240 Workstations?

- The operating system and preinstalled software follows the same warranty of the system. HP provides support for both Windows and Linux®
- The standard, limited warranty for HP Zx40 Workstations will be 3/3/3
- On-site warranty and service
- Three year limited warranty¹³ and service offering delivers on-site, next business-day¹⁴ service for parts and labor and includes free telephone support¹⁵ 8 am-5 pm. Global coverage¹⁴ ensures that any product purchased in one country and transferred to another, non-restricted country will remain fully covered under the original warranty and service offering

Will HP stand behind Linux® when I have problems?

- Yes, HP will stand behind Linux® if it is a supported version

Are HP Care Packs available?

- Yes, HP Care Packs are extended service contracts that go beyond the standard, limited warranties. Service starts from date of hardware purchase. To choose the right level of service for your HP product, use the HP Care Pack Services Look-up Tool at hp.com/go/lookuptool
- Additional HP Care Pack information by product is available at hp.com/hps/carepack
Service levels and response times for HP Care Packs may vary depending on your geographic location

Will 4/4/4 and 5/5/5 warranties be available?

- Limited three-year Mon-Fri 8-5 next business day, parts, labor and 24x7 phone support, terms and conditions may vary. Optional HP Care Packs are available to extend your protection up to five years*
- A 4/4/4 and 5/5/5 limited warranty is planned to be available for ZSRP SKUs for select OEMs only. In all other cases, HP Care Packs should be used to provide this type of additional coverage. If you believe your account qualifies for this type of warranty, please check with your regional business unit

*HP Care Pack Services are extended service contracts that go beyond the standard, limited warranties. Service starts from date of hardware purchase. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at hp.com/go/lookuptool. Additional HP Care Pack Services information by product is available at hp.com/go/carepack. Service levels and response times for HP Care Packs may vary depending on your geographic location.

¹ Source: IDC WW WS Historical Tracker 2016Q1 – 06.29.16.

² Sold separately or as alternate features.

³ Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel®'s numbering is not a measurement of higher performance.

⁴ Each processor supports up to 4 channels of DDR4 memory. To realize full performance at least 1 DIMM must be inserted into each channel. Actual memory speeds dependent on processor capability.

⁵ PCIe Gen3 is new technology and it is expected that there will be limited cards available supporting this technology for a period of time.

⁶ 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 intel.com/technology/turboboost for more information.

⁷ The hyper-threading feature is designed to improve performance of multi-threaded software products; please contact your software provider to determine software compatibility. Not all customers or software applications will benefit from the use of hyper-threading. Go to intel.com/info/hyperthreading for more information including which processors support HT Technology.

⁸ 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 microsoft.com.

⁹ Some vPro functionality, 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.

¹⁰ For storage drives, 1 GB = 1 billion bytes. 1 TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB of disk space is reserved for system recovery software.

¹¹ Thunderbolt™ cable and Thunderbolt™ device (sold separately) must be compatible with Windows. Thunderbolt™ 2 is sold as an optional card for HP Desktop Workstations. To determine whether your device is Thunderbolt™ Certified for Windows, see thunderbolttechnology.net/products.

¹² 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.

¹³ Terms and conditions may vary by country. Certain restrictions and exclusions apply.

¹⁴ On-site service may be provided pursuant to a service contract between HP and an authorized HP third-party provider, and is not available in certain countries. Global service response times are based on commercially reasonable best effort and may vary by country.

¹⁵ Technical support applies only to HP-configured, HP and HP-qualified, third-party hardware and software and 24x7 support service may not be available in some countries.

¹⁶ The following applies to HP systems with Intel® 6th Gen and other future-generation processors on systems shipping with Windows 7, Windows 8, Windows 8.1, or Windows 10 Pro systems downgraded to Windows 7 Professional, Windows 8 Pro, or Windows 8.1: This version of Windows running with the processor or chipsets used in this system has limited support from Microsoft. For more information about Microsoft's support, please see Microsoft's Support Lifecycle FAQ at support.microsoft.com/lifecycle.

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