

## HP Customer Support - Knowledge Base

### HP Z420 Workstation Product Specifications

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#### Product description



The HP Z420 gives us professional expandability in an accessible tool-free mini-tower form factor all at a great price. With up to 8 discrete processing cores, the latest processing and I/O power from Intel, and the latest graphics technology from leading graphics providers, the HP Z420 has the power needed to get the job done.

#### Product features

Feature	Description
Chipset	Intel C602 chipset
Form Factor	Convertible minitower
Color	Jack black
Convertibility	Yes. 5.25-inch drives rotate for Minitower or Desktop orientation.
Internal bays	3 internal 3.5-inch bays (with acoustic dampening rail assemblies pre-installed)
External bays	3 external 5.25-inch bays
Front I/O	<ul style="list-style-type: none"> <li>2 USB 3.0</li> <li>1 USB 2.0</li> <li>1 Headphone</li> <li>1 Microphone</li> <li>1 IEEE 1394a standard</li> </ul>
Rear I/O	<ul style="list-style-type: none"> <li>1 IEEE 1394a port</li> <li>2 USB 3.0</li> <li>4 USB 2.0</li> <li>2 PS/2</li> <li>RJ-45 (NIC)</li> <li>1 Audio Line-In</li> <li>1 Audio Line-Out</li> <li>1 Microphone</li> </ul>
Internal I/O	6 USB 2.0 ports

#### Technical specifications

Specification	Description
System board Form Factor	ATX 24.384 x 30.48 cm (9.6 x 12 in)
Processor socket	Single LGA2011
CPU bus speed	QPI: Up to 8.0 GT/s
Chipset	Intel C602
Super I/O controller	Nuvoton NPCD379H (SIO-12)
Memory expansion slots	8 DDR3 memory slots
Memory type supported	DDR3, UDIMM (Unbuffered), ECC
Memory modes	Channel interleaved
Memory speed supported	1066-MHz, 1333-MHz, and 1600-MHz DDR3
Interfaces supported	<ul style="list-style-type: none"> <li>SATA</li> <li>Integrated RAID</li> </ul>
Maximum memory	Supports up to 64GB

#### Electrical specifications

Specification	Description
Power supply	600 W 90% Efficient, Custom PSU
Operating voltage range	90-269 V ac

#### Physical specifications

Specification	Description
Chassis dimensions (H x W x D)	<ul style="list-style-type: none"> <li><b>Standard minitower orientation:</b> 44.76 x 17.78 x 44.52 cm (17.6 x 7.0 x 17.5 in)</li> <li><b>Converted desktop orientation:</b> 17.9 x 44.76 x 44.52 cm (7.0 x 17.6 x 17.5 in)</li> </ul>
Weight	<ul style="list-style-type: none"> <li><b>Minimum:</b> 12.5 kg (27.5 lbs)</li> <li><b>Standard:</b> 13.2 kg (29.2 lbs)</li> <li><b>Maximum:</b> 17.7 kg (39 lbs)</li> </ul>

#### Software/OS

Feature	Description
Operating Systems <sup>1</sup>	<ul style="list-style-type: none"> <li>Genuine Windows 7 Professional 32-bit</li> <li>Genuine Windows 7 Professional 64-bit</li> <li>Genuine Windows 7 Ultimate 64-bit</li> <li>Red Hat Enterprise Linux (RHEL) Workstation - Paper License (1 year)</li> <li>SUSE Linux Enterprise Desktop 11</li> <li>HP Linux Installer Kit</li> </ul>
Software <sup>2</sup>	<ul style="list-style-type: none"> <li>HP Performance Advisor</li> <li>HP Remote Graphics Software (RGS) V5</li> <li>HP ProtectTools Security</li> <li>MS Office Home &amp; Business 2010</li> <li>HP Power Assistant</li> <li>Roxio Easy Media Creator (DVD/Blu-ray Disc burner software)</li> <li>Intervideo WinDVD (DVD player/burner software)</li> <li>PDF Complete - Trial Edition</li> </ul>

**NOTE: 1:** Supports both 32 and 64 bit versions of Windows 7 Professional and Enterprise, Windows XP Professional and Enterprise, and RHEL V6. **2:** This second OS must be ordered with the HP Linux Installer Kit as the first OS.

#### Environmental specifications

Specification	Description
Temperature	<ul style="list-style-type: none"> <li><b>Operating:</b> 5° to 35°C (40° to 95°F)</li> <li><b>Non-operating:</b> -40° to 60°C (-40° to 140°F)</li> </ul>
Humidity	<ul style="list-style-type: none"> <li><b>Operating:</b> 8% to 85%</li> <li><b>Non-operating:</b> 8% to 90%</li> </ul>
Maximum altitude (non-pressurized)	<ul style="list-style-type: none"> <li><b>Operating:</b> 3,048 m (10,000 ft)</li> <li><b>Non-operating:</b> 9,144 m (30,000 ft)</li> </ul>
Dynamic shock <sup>1</sup>	<ul style="list-style-type: none"> <li><b>Operating:</b> Half-sine: 40 g, 2-3 ms</li> <li><b>Non-operating:</b> <ul style="list-style-type: none"> <li><b>Half-sine:</b> 160 cm/s, 2-3 ms (upto 100 g)</li> <li><b>Square:</b> 422 cm/s, 20 g</li> </ul> </li> </ul>
Dynamic vibration <sup>2</sup>	<ul style="list-style-type: none"> <li><b>Operating:</b> 0.5 g (rms), 5-300 Hz</li> <li><b>Non-operating:</b> 2.0 g (rms), 10-500 Hz</li> </ul>
Cooling	Above 1524 m (5,000 ft) altitude, maximum operating temperature is de-rated by 1°C (1.8°F) per 305 m (1,000 ft) elevation increase.

**NOTE: 1:** Values represent individual shock events and do not indicate repetitive shock events. **2:** Values represent individual shock events and do not indicate repetitive shock events. Values do not indicate continuous vibration.

#### Safety certifications

Feature	Description
Eco-label certifications and declarations	<ul style="list-style-type: none"> <li>Energy Star (Configuration dependent, Microsoft Windows only)</li> <li>United States Federal Energy Management Program (FEMP)</li> <li>China Energy Conservation Program</li> <li>IT ECO declaration</li> <li>Japan PC Green Label</li> </ul>

#### Warranty information

Terms of warranty apply to the individual model purchased. To see if your HP product is still in warranty, go to the [HP Product Warranty Check page](#).

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