The HP Z4 G4 workstation with Intel's newest generation microarchitecture delivers high performance and most advanced visualization for video-oriented applications.

**Feature-rich functionality**
The workstation is ahead of its time with more standard features than any other single processor HP workstation.

**All the power without the noise**
Next-generation acoustic design delivers quiet performance. A high frequency processor with a multi-core count is fully capable of handling the demands of current video surveillance client software from Bosch.

**The world's most secure workstations**
Advanced security features come standard on every HP Z4 G4 workstation. Rest assured your device, identity and data are safe with security software like HP Client Security Suite3 and HP Sure Start, the industry's first self-healing BIOS with intrusion detection.

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**System overview**
HP Z4 G4 is built to minimizing power and cooling costs with ENERGY STAR qualified configurations featuring 90% efficient power supplies while taking on bigger computing challenges with the latest Intel vPro technology and the next generation Intel Xeon quad-core processor:

- Intel Xeon W-2123 (3.6 GHz, 8.25 MB cache, 2666 MHz memory speed, 4C CPU)
- 16 GB (1 x 16 GB) DDR4 2666 DIMM ECC Registered Memory

HP Z4 G4 is a workstation solution based on the Intel C422 chipset using Intel's vPro technology and on 8 DIMM slots in 4-channel memory architecture. With 2 x PCIe 3 x4, 2 x M.2 PCIe 3 x4, 1 x PCIe x8, and 2 x PCIe x16 (slots 2 and 4: PCH with open-ended connector; slot 5: CPU with open-ended connector), HP Z4 G4 delivers high performance bandwidth interfaces and future expandability:

- The architecture of this management workstation delivers next generation I/O throughput to achieve high throughput and visualization requirements.
- The high-end NVIDIA Quadro RTX 4000 (8 GB) and NVIDIA Quadro P2200 (5 GB) graphics cards ensures highest performance and resolution for fast presentation of displayed video data.
Z4 G4 Management Workstation is the high-performance workstation suitable for running the security systems software applications offered by Bosch. Please refer to the respective application data sheets to get detailed information.

**Certifications and approvals**

<table>
<thead>
<tr>
<th>RoHS</th>
<th>Compliant with the European Union’s Restrictions of Hazardous Substances (RoHS) Directive 2011/65/EU</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEEE</td>
<td>Designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC</td>
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<tr>
<td>ISO 11469</td>
<td>Plastic parts used in the product weighing over 25 g are marked per ISO 11469 and ISO 1043</td>
</tr>
<tr>
<td>ISO 1043</td>
<td>Contains 0% recycled materials (by weight)</td>
</tr>
<tr>
<td>Product</td>
<td>&gt;90% recyclable when properly disposed of at end-of-life</td>
</tr>
</tbody>
</table>

**Region**

<table>
<thead>
<tr>
<th>Regulatory compliance/quality marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe</td>
</tr>
<tr>
<td>CE</td>
</tr>
<tr>
<td>Z4 G4 Declaration of Conformity</td>
</tr>
</tbody>
</table>

**Installation/configuration notes**

**Language selection**
The management workstations come in a standard localization:
- MHW-WZ4G4-HEN4 with American English keyboard
- MHW-WZ4G4-HEN2 with American English keyboard
Additional optional keyboards are available.

**Support**
- HP 3-year Next Business Day on-site hardware support

**Notice**
The Next Business Day on-site service level can only be provided if the respective system has been registered within eight weeks after receipt. Otherwise, service will be provided based on best effort. Information about registration details is available in every shipment (registration form) or from the Bosch online product catalog. Next Business Day Services cannot be provided in every country everywhere. For limitations and exceptions see the registration details in the registration form.

**Notice**
The Bosch management workstation comes with pre-installed Microsoft Windows 10 Professional 64-bit for Workstations OS.

### Configuration of Z4 G4 Management Workstation

Z4 G4 Management Workstation, including 90% 750 W Chassis
- Microsoft Windows 10 Professional 64-bit for Workstations OS
- Intel Xeon W-2123 (3.6 GHz, 8.25 MB cache, 2666 MHz memory speed, 4C CPU)
- 16 GB (1 x 16 GB) DDR4 2666 DIMM ECC RAM
- 500 GB, 7200 RPM SATA 3.5 inch HDD
- NVIDIA Quadro RTX 4000 or NVIDIA Quadro P2200

### Technical specifications

#### Electrical

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>750 W, 90% efficient, custom PSU (wide ranging, active Power Factor Correction)</td>
</tr>
<tr>
<td>Operating voltage range</td>
<td>90 to 269 VAC</td>
</tr>
<tr>
<td>Rated voltage range</td>
<td>100 to 240 VAC</td>
</tr>
<tr>
<td>Rated line frequency</td>
<td>118 V (50/60 Hz at 100 to 240 VAC)</td>
</tr>
<tr>
<td>Operating line frequency range</td>
<td>393 to 407 Hz (at 118 VAC)</td>
</tr>
<tr>
<td>Rated input current</td>
<td>100 to 240 V at 10 A</td>
</tr>
<tr>
<td>Power consumption in sleep mode</td>
<td>&lt;15 W (as defined by ENERGY STAR - Suspend to RAM (S3) (instantly available PC))</td>
</tr>
<tr>
<td>Heat dissipation (configuration and software dependent)</td>
<td>1850 BTU/h typical 3084 BTU/h max</td>
</tr>
<tr>
<td>Power supply fan</td>
<td>80 x 25 mm variable speed</td>
</tr>
<tr>
<td>ENERGY STAR qualified</td>
<td>Yes</td>
</tr>
<tr>
<td>80 PLUS compliant</td>
<td>Yes, 90% efficient</td>
</tr>
<tr>
<td>FEMP standby power compliant at 115 V (&lt;2 W in S5 - power off)</td>
<td></td>
</tr>
<tr>
<td>EuP compliant at 230 V</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### Mechanical

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form factor</td>
<td>Minitower</td>
</tr>
<tr>
<td>Chassis dimensions</td>
<td></td>
</tr>
</tbody>
</table>
Mechanical

- Standard minitower orientation (H x W x D) 38.6 x 16.9 x 44.5 cm (15.20 x 6.65 x 17.52 in)
- Rack dimensions 4U

Environmental

Temperature
- operating 5 °C to 35 °C (40 °F to 95 °F)
- non-operating -40 °C to 60 °C (-40 °F to 140 °F)

Humidity
- operating 10 to 85% relative humidity, non-condensing
- non-operating 10 to 90% relative humidity, non-condensing

Maximum altitude (non-pressurized)
- operating 3,048 m (10,000 feet)
- non-operating 12,192 m (40,000 feet)

Notes:
General technical specifications for the workstation are provided in the HP Z4 G4 QuickSpecs (DA - 15954 Worldwide - Version 8 - August 24, 2018).

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80 PLUS is a registered trademark of Ecos, all rights reserved.

Ordering information

MHW-WZ4G4-HEN2 Workstation Z4G4, P2200 GPU
High-performance management workstation for video-oriented applications.

With American English keyboard and NVIDIA Quadro P2200 graphics card.
Order number MHW-WZ4G4-HEN2

MHW-WZ4G4-HEN4 Workstation Z4G4, RTX4000 GPU
High-performance management workstation for video-oriented applications.
With American English keyboard and NVIDIA Quadro RTX 4000 graphics card.
Order number MHW-WZ4G4-HEN4

Accessories

MHW-AWLCK-ESP Keyboard Spanish
Localization (Keyboard): Spain - Spanish
Order number MHW-AWLCK-ESP

MHW-AWLCK-FR Keyboard French
Localization (Keyboard): France - French
Order number MHW-AWLCK-FR

MHW-AWLCK-IT Keyboard Italian
Localization (Keyboard): Italy - Italian
Order number MHW-AWLCK-IT

MHW-AWLCK-NL Keyboard Dutch
Localization (Keyboard): Netherlands - Dutch
Order number MHW-AWLCK-NL

MHW-AWLCK-SE Keyboard Swedish
Localization (Keyboard): Sweden - Swedish
Order number MHW-AWLCK-SE

MHW-AWLCK-UK Keyboard English (UK)
Localization (Keyboard): United Kingdom - British English
Order number MHW-AWLCK-UK

MHW-AWLCK-DE Keyboard German
Localization (Keyboard): Germany - German
Order number MHW-AWLCK-DE

MHW-AWLCK-RU Keyboard Russian
Localization (Keyboard): Russia - Russian
Order number MHW-AWLCK-RU

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