

Z4 G4 Management Workstation

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Invented for life



- ▶ High-performance workstation with Intel's next-generation microarchitecture
- ▶ Multi-monitor support (NVIDIA Quadro P4000, 8 GB graphics card or NVIDIA Quadro P2000, 5 GB graphics card)
- ▶ Silent running with HP low acoustics chassis
- ▶ Protected by HP Hardware Services, including a 3 years Next Business Day on-site support

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.

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)
- 8 GB (1 x 8 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 P4000 (8 GB) and P2000 (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

| RoHS | Compliant with the European Union's Restrictions of Hazardous Substances (RoHS) Directive 2011/65/EU |
|-----------------------|--|
| WEEE | Designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive– 2002/96/EC |
| ISO 11469 ISO 1043 | Plastic parts used in the product weighing over 25 g are marked per ISO 11469 and ISO 1043 |
| | Contains 0% recycled materials (by weight) |
| | Product is >90% recyclable when properly disposed of at end-of-life |
| Region | Regulatory compliance/quality marks |
| Europe | CE Z4 G4 Declaration of Conformity |

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 listed under **Ordering Information** are available.

Adapters

2 passive DisplayPort to DVI adapters are included. Maximum 2 passive adapters can be used with NVIDIA Quadro P2000 graphics card and maximum 4 passive adapters can be used with NVIDIA Quadro P4000 graphics card.

Notice

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

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.

Components of Z4 G4 Management Workstation

| Quantity | Component |
|----------|---|
| 1 | Z4 G4 Management Workstation, including 90% 750 W Chassis |
| 1 | <ul style="list-style-type: none"> • Microsoft Windows 10 Professional 64-bit for Workstations OS |
| 1 | <ul style="list-style-type: none"> • Intel Xeon W-2123 (3.6 GHz, 8.25 MB cache, 2666 MHz memory speed, 4C CPU) |
| 1 | <ul style="list-style-type: none"> • 8 GB (1 x 8 GB) DDR4 2666 DIMM ECC RAM |
| 1 | <ul style="list-style-type: none"> • 500 GB, 7200 RPM SATA 3.5 inch HDD |
| 1 | <ul style="list-style-type: none"> • NVIDIA Quadro P4000 or P2000 |
| 1 | USB business slim wired keyboard (American English) |
| 1 | HP optical USB mouse |
| 1 | HP serial port adapter |
| 2 | HP DisplayPort to DVI-D adapter |
| 1 | Bosch BT recovery DVD |
| 1 | HP 3-year Next Business Day on-site hardware support |

Technical specifications

| Electrical | |
|--------------------------------|---|
| Power supply | 750 W, 90% efficient, custom PSU (wide ranging, active Power Factor Correction) |
| Operating voltage range | 90 to 269 VAC |
| Rated voltage range | 100 to 240 VAC |
| | 118 VAC |
| Rated line frequency | 50/60 Hz (at 100 to 240 VAC) |
| | 400 HZ (at 118 VAC) |
| Operating line frequency range | 47 to 66 Hz (at 100 to 240 VAC) |
| | 393 to 407 HZ (at 118 VAC) |

| Electrical | |
|--|--|
| Rated input current | 100 to 240 V at 10 A |
| | 118 V at 10 A |
| Power consumption in sleep mode (as defined by ENERGY STAR) - Suspend to RAM (S3) (instantly available PC) | <15 W |
| Heat dissipation (configuration and software dependent) | 1850 BTU/h typical 3084 BTU/h max |
| Power supply fan | 80 x 25 mm variable speed |
| ENERGY STAR qualified | Yes |
| 80 PLUS compliant | Yes, 90% efficient |
| FEMP standby power compliant at 115 V (<2 W in S5 - power off) | Yes |
| EuP compliant at 230 V | Yes |
| Mechanical | |
| Form factor | Minitower |
| Chassis dimensions | |
| <ul style="list-style-type: none"> 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) |
| <ul style="list-style-type: none"> Rack dimensions | 4U |
| Environmental | |
| Temperature | |
| <ul style="list-style-type: none"> operating | 5 °C to 35 °C (40 °F to 95 °F) |
| <ul style="list-style-type: none"> non-operating | -40 °C to 60 °C (-40 °F to 140 °F) |
| Humidity | |
| <ul style="list-style-type: none"> operating | 10 to 85% relative humidity, non-condensing |
| <ul style="list-style-type: none"> non-operating | 10 to 90% relative humidity, non-condensing |
| Maximum altitude (non-pressurized) | |
| <ul style="list-style-type: none"> operating | 3,048 m (10,000 feet) |
| <ul style="list-style-type: none"> 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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Ordering information**MHW-WZ4G4-HEN2 Z4G4 Workstation, P2000 GPU**

High-performance management workstation for video-oriented applications.

With American English keyboard and NVIDIA Quadro P2000 graphics card.

Order number **MHW-WZ4G4-HEN2**

MHW-WZ4G4-HEN4 Z4G4 Workstation, P4000 GPU

High-performance management workstation for video-oriented applications.

With American English keyboard and NVIDIA Quadro P4000 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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