Z4 G4 Management Workstation

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BOSCH
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 Microsoft Windows 10 Pro pre-installed.

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	• Microsoft Windows 10 Professional Edition 64-bit OS
1	• Intel Xeon W-2123 (3.6 GHz, 8.25 MB cache, 2666 MHz memory speed, 4C CPU)
1	• 8 GB (1 x 8 GB) DDR4 2666 DIMM ECC RAM
1	• 500 GB, 7200 RPM SATA 3.5 inch HDD
1	• 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	
• 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 6 - March 27, 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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