

# Z4 G4 Management Workstation



- ▶ High-performance workstation with Intel's next-generation microarchitecture
- ▶ Multi-monitor support (NVIDIA RTX A2000, 12 GB graphics card or NVIDIA T1000, 4 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-2223 (3.6 GHz, 8.25 MB cache, 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 RTX A2000 (12 GB) and NVIDIA T1000 (4 GB) graphics cards ensure 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.

**Regulatory information**

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	
Great Britain	UKCA	Z4 G4 Management Workstation
Europe	CE	Z4 G4 Management Workstation

### 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

#### **i** 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.

#### **i** 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-2223 (3.6 GHz, 8.25 MB Cache, 4C CPU)
- 16 GB (1 x 16 GB) DDR4 2666 DIMM ECC RAM
- 500 GB, 7200 RPM SATA 3.5 inch HDD
- NVIDIA RTX A2000 or NVIDIA T1000

### 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)
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	
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Environmental	
• 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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## Ordering information

**MHW-WZ4G4-HEN2 Workstation Z4G4, T1000 GPU**

High-performance management workstation for video-oriented applications.

With American English keyboard and NVIDIA T1000 graphics card.

Order number **MHW-WZ4G4-HEN2 | F.01U.353.747**

**MHW-WZ4G4-HEN4 Workstation Z4G4, RTXA2000 GPU**

High-performance management workstation for video-oriented applications.

With American English keyboard and NVIDIA RTX A2000 graphics card.

Order number **MHW-WZ4G4-HEN4 | F.01U.353.746**

**Accessories****MHW-AWLCK-ESP Keyboard Spanish**

Localization (Keyboard): Spain - Spanish

Order number **MHW-AWLCK-ESP | F.01U.073.356**

**MHW-AWLCK-FR Keyboard French**

Localization (Keyboard): France - French

Order number **MHW-AWLCK-FR | F.01U.073.355**

**MHW-AWLCK-IT Keyboard Italian**

Localization (Keyboard): Italy - Italian

Order number **MHW-AWLCK-IT | F.01U.073.354**

**MHW-AWLCK-NL Keyboard Dutch**

Localization (Keyboard): Netherlands - Dutch

Order number **MHW-AWLCK-NL | F.01U.073.360**

**MHW-AWLCK-SE Keyboard Swedish**

Localization (Keyboard): Sweden - Swedish

Order number **MHW-AWLCK-SE | F.01U.078.850**

**MHW-AWLCK-UK Keyboard English (UK)**

Localization (Keyboard): United Kingdom - British English

Order number **MHW-AWLCK-UK | F.01U.073.358**

**MHW-AWLCK-DE Keyboard German**

Localization (Keyboard): Germany - German

Order number **MHW-AWLCK-DE | F.01U.073.359**

**MHW-AWLCK-RU Keyboard Russian**

Localization (Keyboard): Russia - Russian

Order number **MHW-AWLCK-RU | F.01U.078.852**

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