

# MHW-WZ2R1-PE Management Workstation

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**BOSCH**  
Invented for life



- ▶ High-end workstation with the latest Intel® Xeon® quad-core processors
- ▶ Dual-monitor support (NVIDIA Quadro 2000, 1 GB graphics card)
- ▶ Protected by HP Services, including a 3 years Next Business Day on-site support

This HP Z210 management workstation with workstation-class reliability delivers standard performance and visualization for the Bosch video-oriented applications by offering the advanced power and productivity of HP's latest workstation technology. HP Z210 is engineered to optimize the way the

processor, memory, graphics, operating systems, and software work together and supports the newest generation Intel technology (E3-1200 Family). Get fast performance with built-in memory controller and the latest Intel® Xeon® quad-core processor:

- Intel® Xeon® Processor E3-1230 (3.20 GHz, 80 W, 8 MB cache, 1333 MHz memory, Quad-Core, HT)
- 4 GB (2 x 2 GB) DDR3-1333 ECC Unbuffered RAM

Save energy with ENERGY STAR® 5.0 qualification, 90% efficient power supplies, and HP WattSaver technology, which, when activated, consumes less than 1 W in off mode.

HP Z210 is a workstation solution based on the Intel® C206 Chipset offering future expandability. The mid-range NVIDIA Quadro 2000 (1 GB) 3D graphics card ensures high performance and resolution for fast presentation of displayed video data.

With a smart new chassis it is easy to access—both inside and out with a tool-free chassis and two convenient USB ports on the front. The convertible minitower chassis allows for Minitower or Desktop orientation.

## System overview

MHW-WZ2R1-PE Management Workstation is the high-end workstation suitable for running the security systems software applications offered by Bosch. Please refer to the respective application data sheets to get detailed information.

Latest Intel® Xeon® processor E3 family, including:

- Intel® Hyper-Threading Technology brings high-performance applications into mainstream computing optimized for a new generation multi-core processor architecture
- Intel® vPro™ Technology for maximized, hardware-assisted security and manageability

## Certifications and approvals

RoHS	Compliant with the Restrictions of Hazardous Substances (RoHS) directive–2002/95/EC
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	Certification
	Z210 Declaration of Conformity
Global	RoHS HP Compliance with RoHS directives

## Installation/configuration notes

This management workstation comes in four standard localizations:

MHW-WZ2R1-PEDE German localization/keyboard

MHW-WZ2R1-PEUK British English localization/keyboard

MHW-WZ2R1-PERU Russian localization/keyboard

MHW-WZ2R1-PEUS American English localization/keyboard

Additional optional keyboards listed under **Ordering Information** are available.

### Notice

The Bosch management workstation provides a MUI (Multilingual User Interface). With MUI installed the language of the workstation may be changed after initial installation (for details see document “Installation Note MUI on Bosch Platforms”).

## Parts included

Quantity	Components
1	HP Z210 CMT Workstation
1	• HP Z210 localization kit (select desired language)
1	• HP Z210 400 W, 90% efficient chassis
1	• HP 250 GB SATA 7200, 1st HDD
1	• HP USB standard keyboard
1	• HP USB optical scroll mouse
1	• HP 16X DVD± RW SuperMulti SATA
1	• Intel® Xeon® E3-1230 (3.20 GHz/8 MB/4 cores/80 W/GTO CPU)
1	• HP 4 GB (2 x 2 GB) DDR3-1333 ECC RAM
1	• NVIDIA Quadro 2000 1 GB graphics card

1 Microsoft Windows 7 Ultimate Edition, 64-bit OS

1 HP 3-year Next Business Day on-site hardware support

## Technical specifications

Electrical	
Power supply	400 W, wide ranging, Active Power Factor Correction, 90% efficient
Operating voltage range	90 to 269 VAC
Rated voltage range	100 to 240 VAC
Rated line frequency	50/60 Hz
Operating line frequency range	47 to 66 Hz
Rated input current	6 A at 100 to 127 V
Power consumption in sleep mode (defined by ENERGY STAR®)—suspend to RAM (S3) (instantly available PC)	<4 W
Heat dissipation (configuration and software dependent)	910 BTU/h typical
	1435 BTU/h max (361.6 kcal/h)
Power supply fan	92 x 25 mm variable speed
ENERGY STAR® qualified	Yes
80 PLUS compliant	Yes, Gold
Mechanical	
Form factor	Convertible minitower
Chassis dimensions (H x W x D) Minitower or desktop orientation	44.76 x 17.78 x 45.43 cm (17.6 x 7 x 17.9 in)
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	8 to 85%
• non-operating	8 to 90%
Maximum altitude (non-pressurized)	
• operating	3,000 m (10,000 feet)
• non-operating	9,100 m (30,000 feet)

### Notes:

- General technical specifications for the workstation are provided in the HP Z210 QuickSpecs (Worldwide—Version 4—January 5, 2011).

- Configuration specifications are supplied in the Parts Included section.

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Energy Star is a registered trademark of U.S. Environmental Protection Agency, all rights reserved.

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#### Ordering information

##### **MHW-WZ2R1-PEDE Management Workstation**

Workstation performance edition, German localization included

Order number **MHW-WZ2R1-PEDE**

##### **MHW-WZ2R1-PEUK Management Workstation**

Workstation performance edition, British English localization included

Order number **MHW-WZ2R1-PEUK**

##### **MHW-WZ2R1-PERU Management Workstation**

Workstation performance edition, Russian localization included

Order number **MHW-WZ2R1-PERU**

##### **MHW-WZ2R1-PEUS Management Workstation**

Workstation performance edition, American English localization included

Order number **MHW-WZ2R1-PEUS**

#### Accessories

##### **MHW-AWLCK-CZ**

Localization (Keyboard): Czech Republic—Czech

Order number **MHW-AWLCK-CZ**

##### **MHW-AWLCK-DE**

Localization (Keyboard): Germany—German

Order number **MHW-AWLCK-DE**

##### **MHW-AWLCK-DK**

Localization (Keyboard): Denmark—English

Order number **MHW-AWLCK-DK**

##### **MHW-AWLCK-ESP**

Localization (Keyboard): Spain—Spanish

Order number **MHW-AWLCK-ESP**

##### **MHW-AWLCK-FR**

Localization (Keyboard): France—French

Order number **MHW-AWLCK-FR**

##### **MHW-AWLCK-IT**

Localization (Keyboard): Italy—Italian

Order number **MHW-AWLCK-IT**

##### **MHW-AWLCK-NL**

Localization (Keyboard): Netherlands—Dutch

Order number **MHW-AWLCK-NL**

##### **MHW-AWLCK-NO**

Localization (Keyboard): Norway—Norwegian

Order number **MHW-AWLCK-NO**

##### **MHW-AWLCK-RU**

Localization (Keyboard): Russia—Russian

Order number **MHW-AWLCK-RU**

##### **MHW-AWLCK-SE**

Localization (Keyboard): Sweden—Swedish

Order number **MHW-AWLCK-SE**

##### **MHW-AWLCK-SUI**

Localization (Keyboard): Switzerland—French/German

Order number **MHW-AWLCK-SUI**

##### **MHW-AWLCK-UK**

Localization (Keyboard): United Kingdom—British English

Order number **MHW-AWLCK-UK**

##### **MHW-AWLCK-US**

Localization (Keyboard): USA — American English

Order number **MHW-AWLCK-US**

##### **MHW-AWSP-PCI**

HP Serial Port Adapter z-Series (not built-in)

Order number **MHW-AWSP-PCI**

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