

MHW-WZ2R1-EL Management Workstation

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BOSCH
Invented for life



- ▶ Entry-level workstation with next-generation Intel® Core™ i3 series processors
- ▶ Integrated Intel® HD Graphics (dual-monitor support)
- ▶ Protected by HP Services, including a 3 years Next Business Day on-site support

This HP Z210 management workstation offers an entry-point into the Bosch video-oriented applications that require entry-level performance and visualization by offering the advanced power and productivity of HP's latest workstation technology at a rivaling price point. HP Z210 is engineered to optimize the way the processor, memory, graphics, operating systems, and software work together.

Though HP Z210 comes at an entry-level price point it offers reliable enterprise-class technology—including ECC memory that helps ensure data integrity and higher system uptime.

Get fast performance with built-in memory controller and the latest Intel® Core™ i3 dual-core processor:

- Intel® Core™ i3-2100 processor, 3.10 GHz, 65 W, 3 MB cache, 1333 MHz memory, Dual-Core, HT
- Internal Intel® HD Graphics 2000
- 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 integrated Intel® HD Graphics 2000 provides onboard graphics functionality without requiring an additional graphics card.

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-EL Management Workstation is the entry-level workstation suitable for running the security systems software applications offered by Bosch. Please refer to the respective application data sheets to get detailed information.

Dual-Core Intel® processor for HP Z210:

- Design and performance scalability with Intel® Hyper-Threading Technology (Intel® HT Technology), scalable cache sizes, system interconnects, and integrated memory controllers
- Intel® Hyper-Threading Technology brings high-performance applications into mainstream computing optimized for a new generation multi-core processor architecture

Integrated Intel® HD Graphics:

- Unified Memory Architecture (UMA)—a region of system memory is reserved and dedicated to the graphics display
- DirectX 10.0 compliant
- 2D/3D graphics core
- 1 Single-link DVI-I and 1 DP (Display Port) graphics ports integrated in motherboard—integrated graphics can do dual display across DP and DVI-I

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 1146 9 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
Global	RoHS HP Compliance with RoHS directives Z210 Declaration of Conformity

Installation/Configuration Notes

Language selection

MHW-WZ2R1-EL base unit does not come with a predefined language but offers a choice of language options. One of the localization kits listed under Ordering Information must be selected when ordering. MHW-WZ2R1-ELUS base unit comes with a US localization kit.



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 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® Core™ i3-2100 (3.1 GHz/3 MB/2 cores/65 W/GT1 CPU)
- 1 • HP 4 GB (2 x 2 GB) DDR3-1333 ECC RAM
- 1 • Intel® HD Graphics 2000
- 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	<ul style="list-style-type: none"> • operating 5 °C to 35 °C (40 °F to 95 °F) • non-operating -40 °C to 60 °C (-40 °F to 140 °F)
Humidity	<ul style="list-style-type: none"> • 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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Ordering Information

MHW-WZ2R1-EL Management Workstation

Entry-level workstation, onboard GC (localization kit must be ordered separately)
Order number **MHW-WZ2R1-EL**

MHW-WZ2R1-ELUS Management Workstation

Entry-level workstation US, onboard GC (US localization kit is included)
Order number **MHW-WZ2R1-ELUS**

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**

Represented by:

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