Z440 EE Management Workstation

www.boschsecurity.com





- ► Highest-performance workstation with Intel's nextgeneration microarchitecture
- ► Four monitor support (AMD FirePro W7100, 8 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

This HP Z440 management workstation with its latest processing and I/O power from Intel, and the latest graphics technology from leading graphics providers is designed for video-oriented applications that require high performance and most advanced visualization. HP Z440 features a sleek 4U chassis with built-in handles that offers tool-less access to the inside and easy configurability for seamless deployment. This brand new tool-free chassis boasts low acoustics and single integrated Gigabit Ethernet to deliver whisperquiet performance. HP Z440 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 six-core processor:

- Intel Xeon E5-1650 v4 (3.6 GHz, 15 MB cache, 2400 MHz memory speed, Six-Core, HT, Turbo)
- 8 GB (2 x 4 GB) DDR4 2400 ECC Registered Memory HP Z440 is a workstation solution based on the Intel C612 Chipset using Intel's vPro technology and on 8 DIMM slots in 4-channel memory architecture.

With 2 x PCI Express Gen3 x16, 1 x PCI Express Gen3 x8, 1 x PCI Express Gen2 x4, 1 x PCI Express Gen2 x1 and 1 x Legacy PCI slots, HP Z440 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 ultra high-end AMD FirePro W7100 (8 GB, 4 x Display Ports, max. resolution 4096 x 2160 at 24 bpp 60 Hz) 3D graphics card ensures highest performance and resolution for fast presentation of displayed video data.

System overview

Z440 EE Management Workstation is the highestperformance workstation suitable for running the security systems software applications offered by Rosch

Please refer to the respective application data sheets to get detailed information.

Intel Microarchitecture offers the latest in processor innovation, including:

- 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 highperformance applications into mainstream computing with 1 - 16+ threads optimized for new generation multi-core processor architecture. Intel Xeon E5-1650 v4 provides up to 12 threads.
- Intel Turbo Boost Technology delivers additional performance automatically when needed by taking advantage of the processor's power and thermal headroom. Intel Xeon E5-1650 v4 with 2.0 turbo boost stepping (3.6 GHz max).
- Intel vPro Technology for maximized, hardwareassisted security and manageability.

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

Approvals

Region	Regulate	ory compliance/quality marks
Europe	CE	Z440 Declaration of Conformity

Installation/configuration notes

Language selection

This management workstation comes in four standard localizations:

MHW-WZ4R4-EEDE German localization/keyboard MHW-WZ4R4-EEUK British English localization/keyboard

MHW-WZ4R4-EERU Russian localization/keyboard MHW-WZ4R4-EEUS American English localization/keyboard

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



Notice

The Bosch management workstation comes with Microsoft Windows 10 pre-installed. If Windows 7 Professional is required as OS the Windows 7 Downgrade Option must be ordered together with the management workstation. If this option is ordered the shipment will contain the Windows 7 DVD media kit only, the workstation will still come with Windows 10 pre-installed.



Notice

The Bosch management workstation provides a MUI (Multilingual User Interface) option. The language of the workstation selected during initial installation may be changed at any point in time during operations according to Microsoft Windows 10 guidelines.



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 catalogue.

Next Business Day Services cannot be provided in every country everywhere. For limitations and exceptions see the registration details in the registration form.

Technical specifications

Electrical	
Power supply	700 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 9.5 A
	118 V at 9.5 A

Power consumption in sleep mode (as defined by ENERGY STAR) - Suspend to RAM (S3) (instantly available PC) Heat dissipation (configuration and software dependent) 2746 BTU/h typical (415 kcal/h) Power supply fan 2746 BTU/h max (692 kcal/h) Power supply fan 92 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) EuP compliant at 230 V Yes
(configuration and software dependent) 2746 BTU/h max (692 kcal/h) Power supply fan 92 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)
Power supply fan 92 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)
ENERGY STAR qualified 80 PLUS compliant Yes, 90% efficient FEMP standby power compliant at 115 V (<2 W in S5 – power off)
80 PLUS compliant Yes, 90% efficient FEMP standby power compliant at 115 V (<2 W in S5 – power off) Yes
FEMP standby power compliant at 115 V (<2 W in S5 – power off)
compliant at 115 V (<2 W in S5 – power off)
EuP compliant at 220 V
Eur Compilant at 250 V
Mechanical
Form factor Rackable minitower
Chassis dimensions
• Standard minitower orientation (17.0 x 6.65 x 17.5 in) (H x W x D)
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 8 to 85% relative humidity, non- condensing
non-operating 8 to 90% relative humidity, non- condensing
Maximum altitude (non- pressurized)
• operating 3,048 m (10,000 feet)
• non-operating 9,144 m (30,000 feet)

Notes:

- General technical specifications for the workstation are provided in the HP Z440 QuickSpecs (DA-15077 Worldwide QuickSpecs - Version 5 - 2.1.2015).
- Configuration specifications are supplied in the Parts Included section.

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AMD FirePro is a registered trademark of Advanced Micro Devices Inc., all rights reserved. Energy Star is a registered trademark of U.S. Environmental Protection Agency, all rights reserved.

80 PLUS is a registered trademark of Ecos, all rights reserved.

Ordering information

MHW-WZ4R4-EEDE Workstation, Extreme Edition, DE

Highest-performance workstation. German Highest-performance management workstation for video-oriented applications.

German localization/keyboard.

Order number MHW-WZ4R4-EEDE

MHW-WZ4R4-EEUK Workstation, Extreme Edition, ENGB

Highest-performance management workstation for video-oriented applications.

British English localization/keyboard.

Order number MHW-WZ4R4-EEUK

MHW-WZ4R4-EERU Workstation, Extreme Edition, RU

Highest-performance management workstation for video-oriented applications.

Russian localization/keyboard.

Order number MHW-WZ4R4-EERU

MHW-WZ4R4-EEUS Workstation, Extreme Edition, EN-US

Highest-performance management workstation for video-oriented applications.

American English localization/keyboard.

Order number MHW-WZ4R4-EEUS

Accessories

MHW-AWLCK-ESP Localization (Keyboard) Spain - Spanish

Localization (Keyboard): Spain - Spanish Order number MHW-AWLCK-ESP

MHW-AWLCK-FR Localization (Keyboard) France - French

Localization (Keyboard): France - French Order number MHW-AWLCK-FR

MHW-AWLCK-IT Localization (Keyboard) Italy - Italian

Localization (Keyboard): Italy - Italian Order number MHW-AWLCK-IT

MHW-AWLCK-NL Localization (Keyboard) Netherlands - Du

Localization (Keyboard): Netherlands - Dutch Order number MHW-AWLCK-NL

MHW-AWLCK-SE Localization (Keyboard) Sweden -**Swedish**

Localization (Keyboard): Sweden - Swedish

Order number MHW-AWLCK-SE

Software Options

MHW-AWDGO-WIN7 Windows 7 Downgrade Option (no SW)

Windows 7, 64-bit professional edition media kit. This option has to be ordered together with the initial order of a workstation; it cannot be ordered as a stand-alone item.

Order number MHW-AWDGO-WIN7

Represented by:

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