

Pro WS C246-ACE

ASUS®

Motherboard

E15411
First Edition
May 2019

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Safety information

Electrical safety

- To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the system.
- When adding or removing devices to or from the system, ensure that the power cables for the devices are unplugged before the signal cables are connected. If possible, disconnect all power cables from the existing system before you add a device.
- Before connecting or removing signal cables from the motherboard, ensure that all power cables are unplugged.
- Seek professional assistance before using an adapter or extension cord. These devices could interrupt the grounding circuit.
- Ensure that your power supply is set to the correct voltage in your area. If you are not sure about the voltage of the electrical outlet you are using, contact your local power company.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.

Operation safety

- Before installing the motherboard and adding devices on it, carefully read all the manuals that came with the package.
- Before using the product, ensure all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- To avoid short circuits, keep paper clips, screws, and staples away from connectors, slots, sockets and circuitry.
- Avoid dust, humidity, and temperature extremes. Do not place the product in any area where it may become wet.
- Place the product on a stable surface.
- If you encounter technical problems with the product, contact a qualified service technician or your retailer.

About this guide

This user guide contains the information you need when installing and configuring the motherboard.

How this guide is organized

This guide contains the following parts:

- **Chapter 1: Product Introduction**
This chapter describes the features of the motherboard and the new technology it supports. It includes descriptions of the switches, jumpers, and connectors on the motherboard.
- **Chapter 2: BIOS Information**
This chapter discusses changing system settings through the BIOS Setup menus.

Where to find more information

Refer to the following sources for additional information and for product and software updates.

1. ASUS website

The ASUS website (www.asus.com) provides updated information on ASUS hardware and software products.

2. Optional documentation

Your product package may include optional documentation, such as warranty flyers, that may have been added by your dealer. These documents are not part of the standard package.

Conventions used in this guide

To ensure that you perform certain tasks properly, take note of the following symbols used throughout this manual.



DANGER/WARNING: Information to prevent injury to yourself when trying to complete a task.



CAUTION: Information to prevent damage to the components when trying to complete a task.



IMPORTANT: Instructions that you **MUST** follow to complete a task.



NOTE: Tips and additional information to help you complete a task.

Typography

Bold text

Indicates a menu or an item to select.

Italics

Used to emphasize a word or a phrase.

<Key>

Keys enclosed in the less-than and greater-than sign means that you must press the enclosed key.

Example: <Enter> means that you must press the Enter or Return key.

<Key1> + <Key2> + <Key3>

If you must press two or more keys simultaneously, the key names are linked with a plus sign (+).

Package contents

Check your motherboard package for the following items.

Motherboard	1 x ASUS Pro WS C246-ACE Motherboard
Cables	2 x Serial ATA 6.0Gb/s Cables
	1 x I/O Shield
Accessories	1 x M.2 Screw Package 1 x ACC Activation Key Card
Application DVD	1 x Support DVD
Documentation	1 x User manual



If any of the above items is damaged or missing, contact your retailer.

ASUS Pro WS C246-ACE specifications summary

CPU	Socket 1151 for Intel® Xeon® processor E-2200/E-2100 family, Intel® Pentium™ processors, Intel® Celeron™ processors, Intel® Core™ i9/i7/i5/i3 processors* Supports 14nm CPU Supports Intel® Turbo Boost Technology 2.0** * Refer to www.asus.com for Intel® CPU support list. ** The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.
Chipset	Intel® C246 Chipset
Memory	4 x DIMM, Max. 128GB, DDR4 2666/2400/2133 MHz ECC Memory Dual channel memory architecture Supports Intel® Extreme Memory Profile (XMP) * The maximum memory frequency supported varies by processor. * DDR4 2666MHz and higher memory modules will run at max. 2666MHz on Intel® 8th Gen. 6-core or higher processors. * Refer to www.asus.com for the Memory QVL (Qualified Vendors List).
Expansion slots	2 x PCIe 3.0/2.0 x16 slots (supports x16 or x8/x8) 1 x PCIe 3.0/2.0 x16 slot (max. at x2 mode) 2 x PCIe 3.0/2.0 x1 slots
Multi-GPU Support	Supports AMD® 2-Way CrossFireX™ Technology
VGA	Integrated Graphics Processor- Intel® UHD Graphics support Multi-VGA output support : HDMI/DisplayPort ports - Supports HDMI 1.4 with max. resolution up to 4096x2160@24 Hz / 2560x1600@60Hz - Supports DisplayPort 1.2 with max. resolution up to 4096x2160 @ 60Hz Maximum shared memory of 2048 MB (for iGPU exclusively)

(continued on the next page)

ASUS Pro WS C246-ACE specifications summary

Storage	<p>Intel® C246 Chipset with RAID 0, 1, 5, 10 and Intel Rapid Storage Technology support</p> <ul style="list-style-type: none"> - 1 x M.2_1 Socket 3 with M Key, type 2242/2260/2280/22110 storage devices support (PCIe x4 mode) - 1 x M.2_2 Socket 3 with M Key, type 2242/2260/2280/22110 storage devices support (both SATA & PCIe x2 mode) - 1 x U.2 Socket - 4 x SATA 6.0 Gb/s ports - Ready for Intel® Optane Memory
LAN	<p>1 x Intel® I210AT 1 x i219-LM Wake on LAN ASUS LANGuard Turbo LAN</p>
Audio	<p>Realtek® S1220A 8-Channel High Definition Audio CODEC</p> <ul style="list-style-type: none"> - Power pre-regulator reduces power input noise to ensure consistent performance - Impedance sense for front and rear headphone outputs - Internal audio Amplifier to enhance the highest quality sound for headphone and speakers - Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking <p>Audio Feature:</p> <ul style="list-style-type: none"> - Optical S/PDIF out port(s) at back panel - Audio Shielding: Ensures precision analog/digital separation and greatly reduced multi-lateral interference - Dedicated audio PCB layers: Separate layers for left and right channels to guard the quality of the sensitive audio signals - Premium Japanese-made audio capacitors: Provide warm, natural and immersive sound with exceptional clarity and fidelity - Unique de-pop circuit: Reduces start-up popping noise to audio outputs
USB	<p>Intel® C246 Chipset</p> <ul style="list-style-type: none"> - 4 x USB 3.2 Gen 2 ports (4 ports @back panel, 3x type A; 1x type C) - 6 x USB 3.2 Gen 1 ports (2 ports @mid-board; 4 ports @back panel) - 4 x USB 2.0 ports (4 ports @mid-board)

(continued on the next page)

ASUS Pro WS C246-ACE specifications summary

<p>Special Features</p>	<p>ASUS 5X PROTECTION III</p> <ul style="list-style-type: none"> - ASUS SafeSlot Core: Fortified PCIe with solid soldering - ASUS ESD Guard: Enhanced ESD protection - ASUS Overvoltage Protection: World-class circuit-protecting power design - ASUS Stainless-Steel Back I/O: 3X corrosion-resistance for greater durability! - ASUS DIGI+ VRM power design <p>ASUS EPU</p> <ul style="list-style-type: none"> - EPU <p>ASUS Quiet Thermal Solution:</p> <ul style="list-style-type: none"> - Stylish Fanless Design Heat-sink solution & MOS Heatsink - ASUS Fan Xpert 4 <p>ASUS Exclusive Features</p> <ul style="list-style-type: none"> - ASUS Ai Charger - ASUS AI Suite 3 <p>ASUS EZ DIY</p> <ul style="list-style-type: none"> - ASUS UEFI BIOS EZ Mode - ASUS CrashFree BIOS 3 - ASUS EZ Flash 3 <p>ASUS Q-Design</p> <ul style="list-style-type: none"> - ASUS Q-DIMM - ASUS Q-Slot - ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED)
<p>Back Panel I/O Ports</p>	<ul style="list-style-type: none"> 1 x DisplayPort port 1 x HDMI port 2 x LAN (RJ45) port 3 x USB 3.2 Gen 2 (teal blue) Type-A 1 x USB 3.2 Gen 2 USB Type-C 4 x USB 3.2 Gen 1 ports 1 x Optical S/PDIF out 5 x Audio jack(s)

(continued on the next page)

ASUS Pro WS C246-ACE specifications summary

Internal I/O Connectors	<p>1 x USB 3.2 Gen 1 connectors support additional 2 USB ports (19-pin) 2 x USB 2.0 connectors support additional 4 USB ports 1 x M.2_1 Socket 3 (for M Key, type 2242/2260/2280/22110 devices) 1 x M.2_2 Socket 3 (for M Key, type 2242/2260/2280/22110 devices) 1 x U.2 Socket 4 x SATA 6.0Gb/s connectors 1 x CPU Fan connector (support DC/PWM mode) 1 x CPU_OPT connector (support DC/PWM mode) 1 x AIO_PUMP header 3 x Chassis Fan connectors (4-pin) for both 3-pin(DC mode) and 4-pin(PWM mode) coolers control 1 x Front panel audio connector (AAFP) 1 x 24-pin EATX Power connector 1 x 8-pin EATX 12V Power connector 1 x System Panel* 1 x COM port 1 x Node 1 x Debug Header 1 x Clear CMOS jumper 1 x T_SENSOR</p> <p>* Chassis intrusion header is built in the system panel connector.</p>
BIOS	<p>128 Mb Flash ROM, UEFI AMI BIOS, PnP, SM BIOS 3.1, ACPI 6.1, Multi-language BIOS, ASUS EZ Flash 3, CrashFree BIOS 3, F11 EZ Tuning Wizard, F6 Qfan Control, F3 My Favorites, Last Modified log, F9 Search, F12 PrintScreen, and ASUS DRAM SPD (Serial Presence Detect) memory information</p>
Manageability	<p>WfM 2.0, DMI 3.0, WOL by PME, PXE</p>
Accessories	<p>2 x SATA 6Gb/s cables 1 x IO Shield 1 x M.2 Screw Package 1 x Support DVD 1 x User's manual</p>
Support DVD	<p>Drivers ASUS Utilities ASUS EZ Update Anti-virus software (OEM version)</p>
OS Support	<p>Windows® 10 (64-bit)</p>
Form factor	<p>ATX Form Factor, 12"x 9.6" (30.5 cm x 24.4 cm)</p>



Specifications are subject to change without notice.

Product Introduction

1

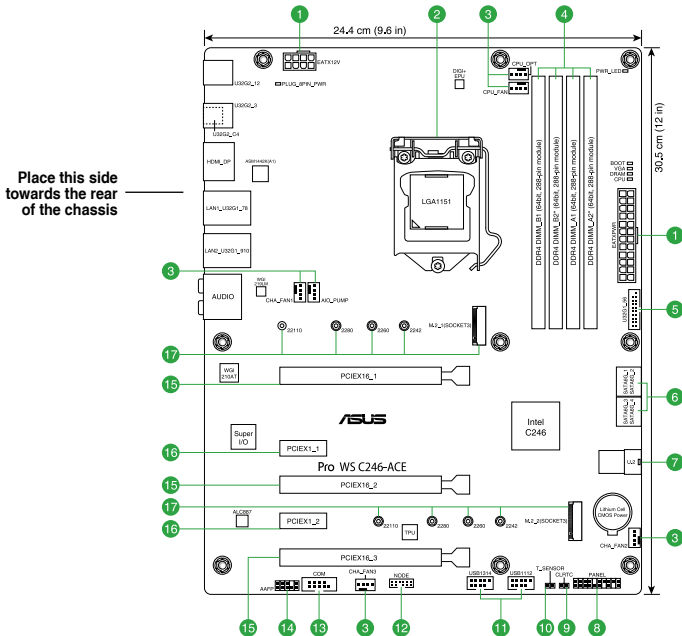
1.1 Before you proceed

Take note of the following precautions before you install motherboard components or change any motherboard settings.



- Unplug the power cord from the wall socket before touching any component.
- Before handling components, use a grounded wrist strap or touch a safely grounded object or a metal object, such as the power supply case, to avoid damaging them due to static electricity.
- Before you install or remove any component, ensure that the ATX power supply is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard, peripherals, or components.

1.2 Motherboard overview



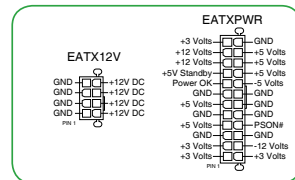
Unplug the power cord before installing or removing the motherboard. Failure to do so can cause you physical injury and damage motherboard components.

1.2.1 Layout contents

Connectors/Jumpers/Slots		Page
1.	ATX power connectors (24-pin EATXPWR, 8-pin EATX12V)	1-2
2.	Intel® LGA1151 CPU socket	1-3
3.	CPU, CPU optional, chassis, and AIO pump fan connectors (4-pin CPU_FAN, 4-pin CPU_OPT, 4-pin CHA_FAN1-3, 4-pin AIO_PUMP FAN)	1-3
4.	DDR4 DIMM slots	1-3
5.	USB 3.2 Gen 1 connector (20-1 pin U32G1_56)	1-3
6.	SATA 6Gb/s connector (7-pin SATA6G_1-4)	1-4
7.	Mini-SAS HD connector (U.2)	1-4
8.	System panel connector (20-3 pin PANEL)	1-4
9.	Clear RTC RAM (2-pin CLRRTC)	1-5
10.	Thermal Sensor connector (2-pin T_SENSOR)	1-5
11.	USB 2.0 connector (10-1 pin USB1112; USB1314)	1-5
12.	Node connector (12-1 pin NODE)	1-5
13.	Serial port connector (10-1 pin COM)	1-6
14.	Front panel audio connector (10-1 pin AAFP)	1-6
15.	PCI Express 3.0/2.0 x16 slots	1-6
16.	PCI Express 3.0/2.0 x1 slots	1-6
17.	M.2 sockets (M.2_1(SOCKET3); M.2_2 (SOCKET3))	1-6

1 ATX power connectors (24-pin EATXPWR, 8-pin EATX12V)

Correctly orient the ATX power supply plugs into these connectors and push down firmly until the connectors completely fit.



- The 8-pin Power Plug LED lights up to indicate that the 8-pin power plug is not connected.
- For a fully configured system, we recommend that you use a power supply unit (PSU) that complies with ATX 12 V Specification 2.0 (or later version) and provides a minimum power of 350 W. This PSU type has 24-pin and 8-pin power plugs.
- We recommend that you use a PSU with higher power output when configuring a system with more power-consuming devices or when you intend to install additional devices. The system may become unstable or may not boot up if the power is inadequate.

2

Intel® LGA1151 CPU socket

Install Intel® LGA1151 CPU into this surface mount LGA1151 socket, which is designed for Intel® Xeon® processor E-2200/E-2100 family, Intel® Pentium™ processors, Intel® Celeron™ processors, Intel® Core™ i9/i7/i5/i3 processors.

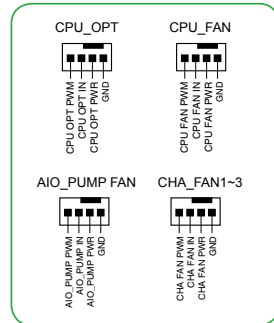


For more details, refer to **1.3 Central Processing Unit (CPU)**.

3

CPU, CPU optional, chassis, and AIO pump fan connectors (4-pin CPU_FAN, 4-pin CPU_OPT, 4-pin CHA_FAN1~3, 4-pin AIO_PUMP FAN)

Connect the fan cables to the fan connectors on the motherboard, ensuring that the black wire of each cable matches the ground pin of the connector.



4

DDR4 DIMM slots

Install 2 GB, 4 GB, 8 GB, 16 GB, and 32 GB DDR4 DIMMs into these DIMM sockets.

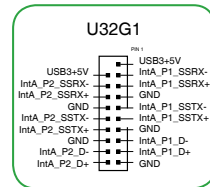


For more details, refer to **1.4 System memory**.

5

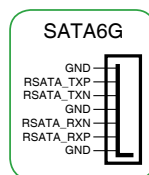
USB 3.2 Gen 1 connector (20-pin U32G1_56)

Connect a USB 3.2 Gen 1 module to any of these connectors for additional USB 3.2 Gen 1 front or rear panel ports. These connectors comply with USB 3.2 Gen 1 specifications and provides faster data transfer speeds of up to 5 Gbps, faster charging time for USB-chargeable devices, optimized power efficiency, and backward compatibility with USB 2.0



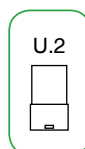
6 SATA 6Gb/s connector (7-pin SATA6G_1-4)

These connectors connect to Serial ATA 6.0 Gb/s hard disk drives via Serial ATA 6.0 Gb/s signal cables.



7 Mini-SAS HD connector (U.2)

The Mini-SAS HD connector allows you to connect a Mini-SAS HD cable to support configurations such as U.2 devices or four SATA devices.



8 System panel connector (20-3 pin PANEL)

This connector supports several chassis-mounted functions.

- **System power LED (4-pin PWR_LED)**

This 4-pin connector is for the system power LED. Connect the chassis power LED cable to this connector. The system power LED lights up when you turn on the system power, and blinks when the system is in sleep mode.

- **System power LED (2-pin or 3-1 pin PLED)**

The 2-pin or 3-1 pin connector is for the system power LED.

- **Hard disk drive activity LED (2-pin HDD_LED)**

This 2-pin connector is for the HDD Activity LED.

- **System warning speaker (4-pin SPEAKER)**

This 4-pin connector is for the chassis-mounted system warning speaker.

- **ATX power button/soft-off button (2-pin PWR_SW)**

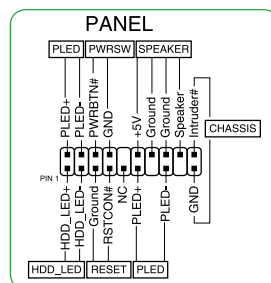
This connector is for the system power button.

- **Reset button (2-pin RESET)**

This 2-pin connector is for the chassis-mounted reset button for system reboot without turning off the system power.

- **Chassis intrusion connector (2-pin CHASSIS)**

This connector is for a chassis-mounted intrusion detection sensor or switch.



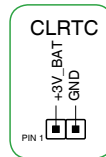
9

Clear RTC RAM (2-pin CLRTC)

This header allows you to clear the CMOS RTC RAM data of the system setup information such as date, time, and system passwords.

To erase the RTC RAM:

1. Turn OFF the computer and unplug the power cord.
2. Use a metal object such as a screwdriver to short the two pins.
3. Plug the power cord and turn ON the computer.
4. Hold down the key during the boot process and enter BIOS setup to re-enter data.

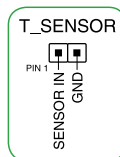


If the steps above do not help, remove the onboard battery and short the two pins again to clear the CMOS RTC RAM data. After clearing the CMOS, reinstall the battery.

10

Thermal Sensor connector (2-pin T_SENSOR)

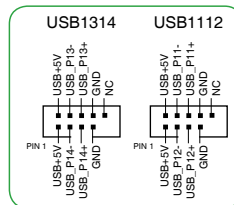
The Thermal Sensor connector allows you to connect a sensor to monitor the temperature of the devices and the critical components inside the motherboard. Connect the thermal sensor and place it on the device or the motherboard's component to detect its temperature.



11

USB 2.0 connector (10-1 pin USB1112; USB1314)

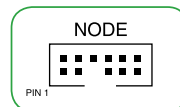
Connect a USB module cable to this connector, then install the module to a slot opening at the back of the system chassis. This USB connectors comply with USB 2.0 specifications and supports up to 480Mbps connection speed.



12

Node connector (12-1 pin NODE)

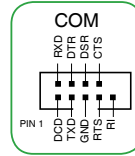
The Node connector allows you to connect Node compatible devices.



Visit www.asus.com for more information about the devices and the latest compatibility list.

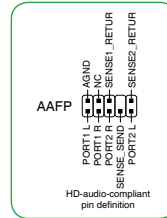
13 Serial port connector (10-1 pin COM)

This connector is for a serial (COM) port. Connect the serial port module cable to this connector, then install the module to a slot opening at the back of the system chassis.



14 Front panel audio connector (10-1 pin AAFP)

This connector is for a chassis-mounted front panel audio I/O module that supports HD Audio standard. Connect one end of the front panel audio I/O module cable to this connector.



15 PCI Express 3.0/2.0 x16 slots

This motherboard supports three PCI Express 3.0/2.0 x16 graphic cards that comply with the PCI Express specifications. Actual PCI Express speeds varies per BIOS settings.

16 PCI Express 3.0/2.0 x1 slots

This motherboard has two PCI Express 3.0/2.0 x1 slots that support PCI Express x1 network cards, SCSI cards, and other cards that comply with the PCI Express specifications.

VGA configuration	PCI Express operating mode	
	PCIe 3.0 x16_1 (gray)	PCIe 3.0 x16_2
Single VGA/PCIe card	x16 (Recommended for single VGA card)	N/A
Dual VGA/PCIe cards	x8	x8

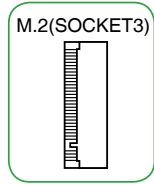


- In single VGA card mode, use the PCIe 3.0 x16_1 slot (gray) for a PCI Express x16 graphics card to get better performance.
- Connect a chassis fan to the motherboard connector labeled CHA_FAN1/2/3 when using multiple graphics cards for better thermal environment.

17

M.2 sockets (M.2_1(SOCKET3); M.2_2 (SOCKET3))

These sockets allow you to install M.2 (NGFF) SSD modules.

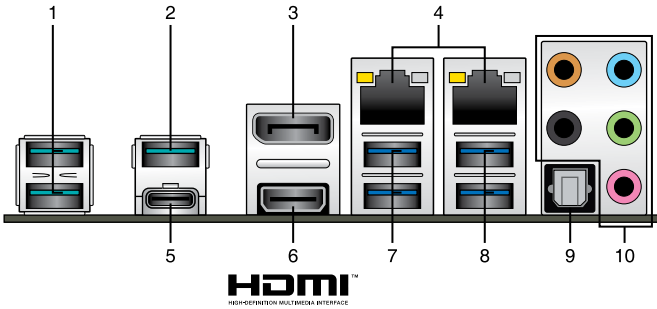


- The M.2_1 socket supports M Key and 2242/2260/2280/22110 storage devices (PCIe x4 mode).
- The M.2_2 socket supports M Key and 2242/2260/2280/22110 storage devices (both SATA & PCIe x2 mode)s.



The M.2 SSD module is purchased separately.

1.2.2 Rear panel connectors



1. **USB 3.2 Gen 2 Type-A ports.** These 9-pin Universal Serial Bus 3.2 (USB 3.2) ports are for USB 3.2 Gen 2 devices.



- USB 3.2 Gen 1/Gen 2 devices can only be used as data storage only.
- We strongly recommend that you connect your devices to ports with matching data transfer rate. Please connect your USB 3.2 Gen 1 devices to USB 3.2 Gen 1 ports and your USB 3.2 Gen 2 devices to USB 3.2 Gen 2 ports for faster and better performance for your devices.

2. **USB 3.2 Gen 2 Type-A ports.** These 9-pin Universal Serial Bus 3.2 (USB 3.2) ports are for USB 3.2 Gen 2 devices.



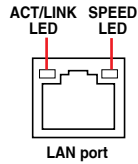
- USB 3.2 Gen 1/Gen 2 devices can only be used as data storage only.
- We strongly recommend that you connect your devices to ports with matching data transfer rate. Please connect your USB 3.2 Gen 1 devices to USB 3.2 Gen 1 ports and your USB 3.2 Gen 2 devices to USB 3.2 Gen 2 ports for faster and better performance for your devices.

3. **DisplayPort.** This port allows you to connect your motherboard to an external display.

- LAN (RJ-45) port.** These ports allow Gigabit connection to a Local Area Network (LAN) through a network hub.

LAN port LED indications

Activity/Link LED		Speed LED	
Status	Description	Status	Description
Off	No link	OFF	10Mbps connection
Orange	Linked	ORANGE	100Mbps connection
Orange (Blinking)	Data activity	GREEN	1Gbps connection
Orange (Blinking then steady)	Ready to wake Wake up from S5 mode		



- USB 3.2 Gen 2 Type-C™ port.** This 24-pin Universal Serial Bus (USB) port is for USB (Type C) devices.
- HDMI port.** This port is for a High-Definition Multimedia Interface (HDMI) connector, and is HDCP compliant allowing playback of HD DVD, Blu-ray, and other protected content.
- USB 3.2 Gen 1 Type-A port.** These 9-pin Universal Serial Bus (USB) ports are for USB 3.2 Gen 1 devices.



- USB 3.2 Gen 1 devices can only be used for data storage.
- We strongly recommend that you connect USB 3.2 Gen 1 devices to USB 3.2 Gen 1 ports for faster and better performance from your USB 3.2 Gen 1 devices.

- USB 3.2 Gen 1 Type-A port.** These 9-pin Universal Serial Bus (USB) ports are for USB 3.2 Gen 1 devices.



- USB 3.2 Gen 1 devices can only be used for data storage.
- We strongly recommend that you connect USB 3.2 Gen 1 devices to USB 3.2 Gen 1 ports for faster and better performance from your USB 3.2 Gen 1 devices.

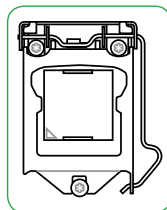
9. **Optical S/PDIF OUT port.** This port allows you to connect amplified speakers, headphones, or Sony/Phillips Digital Interconnect Format (S/PDIF) compliant devices.
10. **Audio I/O ports.** Refer to the audio configuration table below for the function of the audio ports in 2, 4, 5.1, or 7.1-channel configuration.

Audio 2, 4, 5.1, or 7.1-channel configuration

Port	Headset 2-channel	4-channel	5.1-channel	7.1-channel
Light Blue	Line In	Line In	Line In	Side Speaker Out
Lime	Line Out	Front Speaker Out	Front Speaker Out	Front Speaker Out
Pink	Mic In	Mic In	Mic In	Mic In
Orange	–	–	Center/Sub woofer	Center/Sub woofer
Black	–	Rear Speaker Out	Rear Speaker Out	Rear Speaker Out

1.3 Central Processing Unit (CPU)

This motherboard comes with a surface mount LGA1151 socket designed for the Intel® Xeon® processor E-2200/E-2100 family, Intel® Pentium™ processors, Intel® Celeron™ processors, and Intel® Core™ i9/i7/i5/i3 processors.

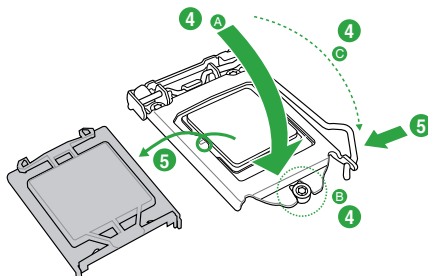
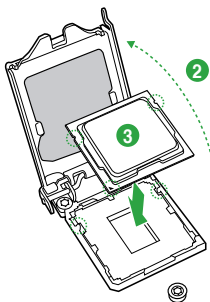
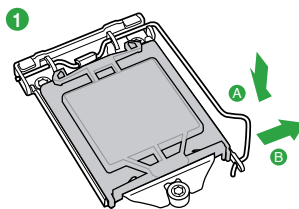
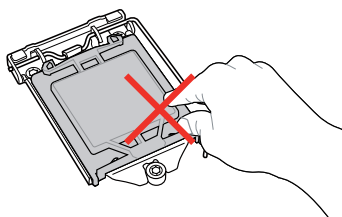


Unplug all power cables before installing the CPU.



- Ensure that you install the correct CPU designed for the LGA1151 socket only. DO NOT install a CPU designed for LGA1150, LGA1155 and LGA1156 sockets on the LGA1151 socket.
- Upon purchase of the motherboard, ensure that the PnP cap is on the socket and the socket contacts are not bent. Contact your retailer immediately if the PnP cap is missing, or if you see any damage to the PnP cap/socket contacts/motherboard components.
- Keep the cap after installing the motherboard. ASUS will process Return Merchandise Authorization (RMA) requests only if the motherboard comes with the cap on the LGA1151 socket.
- The product warranty does not cover damage to the socket contacts resulting from incorrect CPU installation/removal, or misplacement/loss/incorrect removal of the PnP cap.

Installing the CPU

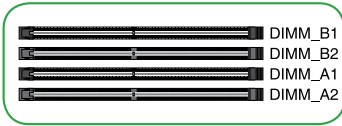


Apply the Thermal Interface Material to the CPU heatsink and CPU before you install the heatsink and fan if necessary.

1.4 System memory

Overview

This motherboard comes with four Double Data Rate 4 (DDR4) Dual Inline Memory Module (DIMM) sockets. The figure illustrates the location of the DDR4 DIMM sockets:



Channel	Sockets
Channel A	DIMM_A1 & DIMM_A2
Channel B	DIMM_B1 & DIMM_B2

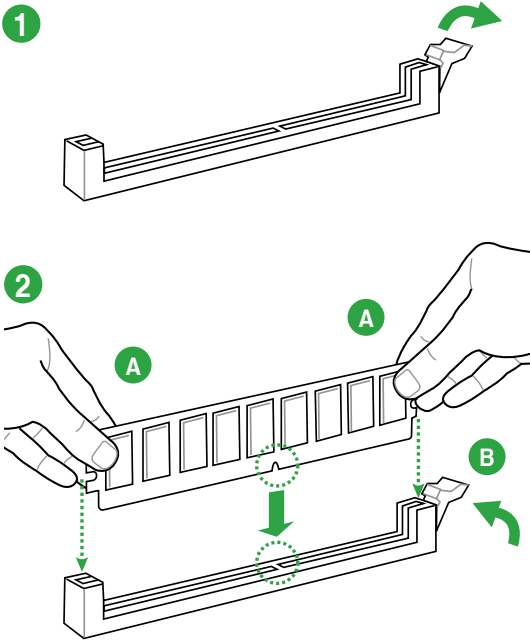


- You may install varying memory sizes in Channel A and Channel B. The system maps the total size of the lower-sized channel for the dual-channel configuration. Any excess memory from the higher-sized channel is then mapped for single-channel operation.
- Always install DIMMs with the same CAS latency. For optimal compatibility, we recommend that you install memory modules of the same version or date code (D/C) from the same vendor. Check with the retailer to get the correct memory modules.
- According to Intel® CPU spec, DIMM voltage below 1.35V is recommended to protect the CPU.
- Due to Intel® chipset limitation, DDR4 2666MHz and higher memory modules will run at max. 2666MHz on Intel® 8th Gen. 6-core or higher processors.

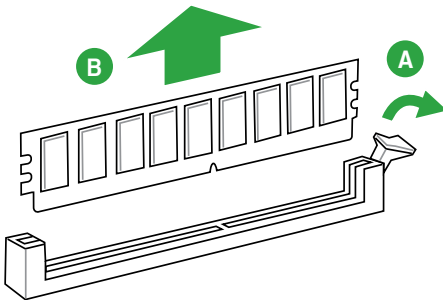


- The default memory operation frequency is dependent on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module. Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.
- For system stability, use a more efficient memory cooling system to support a full memory load (4 DIMMs).
- Refer to www.asus.com for the latest Memory QVL (Qualified Vendors List)

Installing a DIMM



To remove a DIMM



BIOS Information

2

2.1 Managing and updating your BIOS



Save a copy of the original motherboard BIOS file to a USB flash disk in case you need to restore the BIOS in the future. Copy the original motherboard BIOS using the ASUS Update utility.

2.1.1 EZ Update

EZ Update is a utility that allows you to automatically update your motherboard's softwares, drivers and the BIOS version easily. With this utility, you can also manually update the saved BIOS and select a boot logo when the system goes into POST.

To launch EZ Update, click **EZ Update** on the AI Suite 3 main menu bar.

The screenshot shows the ASUS EZ Update utility window. It features a dark blue background with white text. At the top right, it displays 'Current BIOS' information: Model Name: Pro WS C246-ACE, Version: 3002, Release Date: 05/22/2019. Below this, there are two main sections: 'Check updates from internet:' with a 'Check Now!' button, and 'Manually update Boot logo or BIOS:' with a text box and a '...' button. At the bottom right, there are three buttons: 'Selected BIOS', 'Selected Boot Logo', and 'Update BIOS'. Red arrows point from text annotations to these elements: 'Click to automatically update your motherboard's driver, software and firmware' points to the 'Check Now!' button; 'Click to find and select the BIOS from file' points to the '...' button; 'Click to select a boot logo' points to the 'Selected Boot Logo' button; and 'Click to update the BIOS' points to the 'Update BIOS' button.



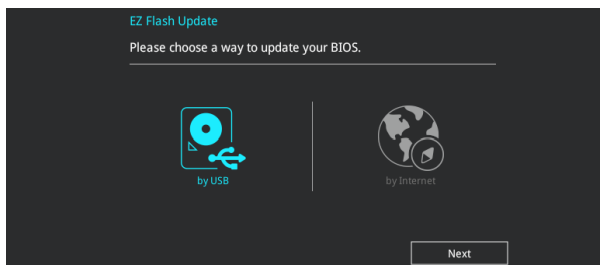
EZ Update requires an Internet connection either through a network or an ISP (Internet Service Provider).

2.1.2 ASUS EZ Flash 3

The ASUS EZ Flash 3 allows you to download and update to the latest BIOS through the Internet without having to use a bootable floppy disk or an OS-based utility.



- Ensure to load the BIOS default settings to ensure system compatibility and stability. Select the Load Optimized Defaults item under the Exit menu. See section **2.3 Exit Menu** for details.
- Check your local Internet connection before updating through the Internet.



To update the BIOS using EZ Flash 3:

1. Enter the **Advanced Mode** of the BIOS setup program. Go to the **Tool** menu to select ASUS EZ Flash 3 and press <Enter> to enable it.
2. Follow the steps below to update the BIOS via USB or Internet.

Via USB

- a) Insert the USB flash disk that contains the latest BIOS file to the USB port, then select **by USB**.
- b) Press <Tab> to switch to the **Drive** field.
- c) Press the Up/Down arrow keys to find the USB flash disk that contains the latest BIOS, and then press <Enter>.
- d) Press <Tab> to switch to the **Folder** field.
- e) Press the Up/Down arrow keys to find the BIOS file, and then press <Enter> to perform the BIOS update process.

Via the Internet

- a) Select **by Internet**.
 - b) Press the Left/Right arrow keys to select an Internet connection method, and then press <Enter>.
 - c) Follow the onscreen instructions to complete the update.
3. Reboot the system when the update process is done.



-
- ASUS EZ Flash 3 supports USB devices, such as a USB flash disk, with FAT 32/16 format and single partition only.
 - DO NOT shut down or reset the system while updating the BIOS to prevent system boot failure!
-

2.1.3 ASUS CrashFree BIOS 3 utility

The ASUS CrashFree BIOS 3 is an auto recovery tool that allows you to restore the BIOS file when it fails or gets corrupted during the updating process. You can restore a corrupted BIOS file using the motherboard support DVD or a USB flash drive that contains the updated BIOS file.



-
- Before using this utility, rename the BIOS file in the removable device into **PWS246.CAP**.
 - The BIOS file in the support DVD may not be the latest version. Download the latest BIOS file from the ASUS website at www.asus.com.
-

Recovering the BIOS

To recover the BIOS:

1. Turn on the system.
2. Insert the support DVD to the optical drive or the USB flash drive that contains the BIOS file to the USB port.
3. The utility automatically checks the devices for the BIOS file. When found, the utility reads the BIOS file and enters ASUS EZ Flash 3 utility automatically.
4. The system requires you to enter BIOS Setup to recover BIOS settings. To ensure system compatibility and stability, we recommend that you press <F5> to load default BIOS values.



DO NOT shut down or reset the system while updating the BIOS! Doing so can cause system boot failure!

2.2 BIOS setup program

Use the BIOS Setup program to update the BIOS or configure its parameters. The BIOS screens include navigation keys and brief online help to guide you in using the BIOS Setup program.

Entering BIOS Setup at startup

To enter BIOS Setup at startup:

Press <Delete> or <F2> during the Power-On Self Test (POST). If you do not press <Delete> or <F2>, POST continues with its routines.

Entering BIOS Setup after POST

To enter BIOS Setup after POST:

Press <Ctrl>+<Alt>+ simultaneously.

Press the reset button on the system chassis.

Press the power button to turn the system off then back on. Do this option only if you failed to enter BIOS Setup using the first two options.



Using the power button, reset button, or the <Ctrl>+<Alt>+ keys to force reset from a running operating system can cause damage to your data or system. We recommend you always shut down the system properly from the operating system.



- The BIOS setup screens shown in this section are for reference purposes only, and may not exactly match what you see on your screen.
 - Visit the ASUS website at www.asus.com to download the latest BIOS file for this motherboard.
 - Ensure that a USB mouse is connected to your motherboard if you want to use the mouse to control the BIOS setup program.
 - If the system becomes unstable after changing any BIOS setting, load the default settings to ensure system compatibility and stability. Select the **Load Optimized Defaults** item under the Exit menu or press hotkey F5. See section 2.3 **Exit Menu** for details.
 - If the system fails to boot after changing any BIOS setting, try to clear the CMOS and reset the motherboard to the default value. See section 1.2 **Motherboard overview** for information on how to erase the RTC RAM.
-

BIOS menu screen

The BIOS setup program can be used under two modes: **EZ Mode** and **Advanced Mode**. Press <F7> to change between the two modes.

2.2.1 EZ Mode

By default, the EZ Mode screen appears when you enter the BIOS setup program. The EZ Mode provides you an overview of the basic system information, and allows you to select the display language, system performance mode, fan profile and boot device priority. To access the Advanced Mode, click **Advanced Mode(F7)** or press <F7>.



The default screen for entering the BIOS setup program can be changed. Go to the **Setup Mode** item in the **Boot menu**.

Displays a quick overview of the system status

Creates storage RAID and configures system overclocking

Selects the display language of the BIOS setup program

Search(F9)

Displays the system properties of the selected mode. Click < or > to switch EZ System Tuning modes

The screenshot shows the ASUS UEFI BIOS Utility - EZ Mode interface. It features several sections: Information (Pro WS C246-ACE BIOS Ver. 0102, Intel(R) Xeon(R) E-2186G CPU @ 3.80GHz, Speed: 3800 MHz, Memory: 4096 MB (DDR4 2133MHz)), CPU Temperature (39°C), CPU Core Voltage (1.154 V), Motherboard Temperature (29°C), DRAM Status (DIMM_A1: N/A, DIMM_A2: N/A, DIMM_B1: N/A, DIMM_B2: SK Hynix 4096MB 2133MHz), X.M.P. (Disabled), FAN Profile (CPU FAN 2307 RPM, CHA1 FAN N/A, CHA2 FAN N/A, CPU OPT FAN N/A, CHA3 FAN N/A, AIO PUMP N/A), Storage Information (USB: JetFlashTranscend 4GB 8.07 (4.0GB)), Intel Rapid Storage Technology (On), EZ System Tuning (Normal), Boot Priority (UEFI: JetFlashTranscend 4GB 8.07, Partition 1 (4.0GB), JetFlashTranscend 4GB 8.07 (4.0GB)), and Boot Menu(F8). The bottom navigation bar includes Default(F5), Save & Exit(F10), Advanced Mode(F7) [-], and Search on FAQ.

Displays the CPU Fan's speed. Click the button to manually tune the fans

Loads optimized default settings

Saves the changes and resets the system

Click to go to Advanced mode

Search on the FAQ

Click to display boot devices

Selects the boot device priority



The boot device options vary depending on the devices you installed to the system.

2.2.2 Advanced Mode

The Advanced Mode provides advanced options for experienced end-users to configure the BIOS settings. The figure below shows an example of the **Advanced Mode**. Refer to the following sections for the detailed configurations.



To access the EZ Mode, click **EzMode(F7)** or press <F7>.

The screenshot shows the ASUS UEFI BIOS Utility in Advanced Mode. The interface is dark-themed with blue highlights. At the top, there is a menu bar with options: My Favorites, Main, AI Tweaker, **Advanced**, Monitor, Boot, Tool, and Exit. The main area is divided into several sections. On the left, there are configuration fields for CPU states (C7, C8, C9, C10), caches (L1, L2, L3, L4), and Intel technologies (VT-x, SMX). A dropdown menu for 'Software Guard Extensions (SGX)' is open, showing options: Disabled, **Software Controlled**, Enabled, and Enabled. On the right, there is a 'Hardware Monitor' section displaying system status: CPU (3800 MHz, 39°C), Memory (2133 MHz, 1.208 V), and Voltage (+12V, +5V, +3.3V, 3.232 V). At the bottom, there is a footer with 'Last Modified', 'EzMode(F7)', 'Hot Keys', and 'Search on FAQ'. A search bar is also visible at the top right.

Configuration fields

Menu bar Language MyFavorite(F3) Qfan Control(F6) Search(F9)

Scroll bar

Hardware Monitor

Menu items General help Last modified settings Go back to EZ Mode Hot Keys Search on the FAQ

Displays a quick overview of the system status

Menu bar

The menu bar on top of the screen has the following main items:

My Favorites	For saving the frequently-used system settings and configuration
Main	For changing the basic system configuration
Ai Tweaker	For changing the overclocking settings
Advanced	For changing the advanced system settings
Monitor	For displaying the system temperature, power status, and changing the fan settings
Boot	For changing the system boot configuration
Tool	For configuring options for special functions
Exit	For selecting the exit options and loading default settings

Menu items

The highlighted item on the menu bar displays the specific items for that menu. For example, selecting **Main** shows the Main menu items.

The other items (My Favorites, Ai Tweaker, Advanced, Monitor, Boot, Tool, and Exit) on the menu bar have their respective menu items.

Submenu items

A greater than sign (>) before each item on any menu screen means that the item has a submenu. To display the submenu, select the item and press <Enter>.

Language

This button above the menu bar contains the languages that you can select for your BIOS. Click this button to select the language that you want to display in your BIOS screen.

My Favorites (F3)

This button above the menu bar shows all BIOS items in a Tree Map setup. Select frequently-used BIOS settings and save it to MyFavorites menu.

Q-Fan Control (F6)

This button above the menu bar displays the current settings of your fans. Use this button to manually tweak the fans to your desired settings.

Search (F9)

This button allows you to search for BIOS items by entering its name, enter the item name to find the related item listing.

Search on FAQ

Move your mouse over this button to show a QR code, scan this QR code on your mobile device to connect to the BIOS FAQ web page of the ASUS support website. You can also scan the following QR code:



Scroll bar

A scroll bar appears on the right side of a menu screen when there are items that do not fit on the screen. Press the Up/Down arrow keys or <Page Up> / <Page Down> keys to display the other items on the screen.

General help

At the bottom of the menu screen is a brief description of the selected item. Use <F12> key to capture the BIOS screen and save it to the removable storage device.

Configuration fields

These fields show the values for the menu items. If an item is user-configurable, you can change the value of the field opposite the item. You cannot select an item that is not user-configurable.

A configurable field is highlighted when selected. To change the value of a field, select it and press <Enter> to display a list of options.

Hot keys

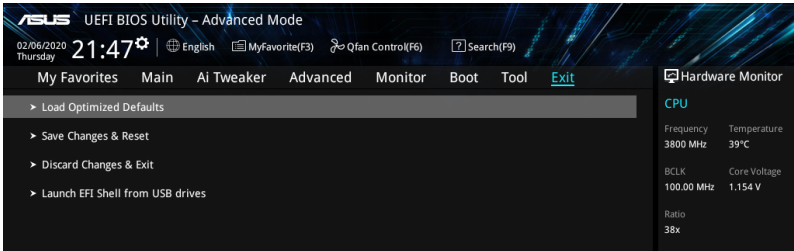
This button contains the navigation keys for the BIOS setup program. Use the navigation keys to select items in the menu and change the settings.

Last Modified button

This button shows the items that you last modified and saved in BIOS Setup.

2.3 Exit menu

The Exit menu items allow you to load the optimal default values for the BIOS items, and save or discard your changes to the BIOS items.



Load Optimized Defaults

This option allows you to load the default values for each of the parameters on the Setup menus. When you select this option or if you press <F5>, a confirmation window appears. Select OK to load the default values.

Save Changes & Reset

Once you are finished making your selections, choose this option from the Exit menu to ensure the values you selected are saved. When you select this option or if you press <F10>, a confirmation window appears. Select OK to save changes and exit.

Discard Changes and Exit

This option allows you to exit the Setup program without saving your changes. When you select this option or if you press <Esc>, a confirmation window appears. Select OK to discard changes and exit.

Launch EFI Shell from USB drives

This option allows you to attempt to launch the EFI Shell application (shellx64.efi) from one of the available USB devices.

Appendix

Notices

FCC Compliance Information

Responsible Party: Asus Computer International
Address: 48720 Kato Rd., Fremont, CA 94538, USA
Phone / Fax No: (510)739-3777 / (510)608-4555

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Compliance Statement of Innovation, Science and Economic Development Canada (ISED)

This device complies with Innovation, Science and Economic Development Canada licence exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

CAN ICES-3(B)/NMB-3(B)

Déclaration de conformité de Innovation, Sciences et Développement économique Canada (ISED)

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取扱説明書に従って正しい取り扱いをして下さい。

V C C I - B

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Complying with the REACH (Registration, Evaluation, Authorisation, and Restriction of Chemicals) regulatory framework, we published the chemical substances in our products at ASUS REACH website at <http://csr.asus.com/english/REACH.htm>.



DO NOT throw the motherboard in municipal waste. This product has been designed to enable proper reuse of parts and recycling. This symbol of the crossed out wheeled bin indicates that the product (electrical and electronic equipment) should not be placed in municipal waste. Check local regulations for disposal of electronic products.



DO NOT throw the mercury-containing button cell battery in municipal waste. This symbol of the crossed out wheeled bin indicates that the battery should not be placed in municipal waste.

ASUS Recycling/Takeback Services

ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for you to be able to responsibly recycle our products, batteries, other components as well as the packaging materials. Please go to <http://csr.asus.com/english/Takeback.htm> for detailed recycling information in different regions.

Regional notice for California



WARNING

Cancer and Reproductive Harm -
www.P65Warnings.ca.gov

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Suomi ASUSTEK Computer Inc. ilmoittaa täten, että tämä laite on asiaankuuluvien direktiivien olennaisten vaatimusten ja muiden tätä koskevien säädösten mukainen. EU-yhdenmukaisuusilmoituksen koko teksti on luettavissa osoitteessa: www.asus.com/support

Ελληνικά Με το παρόν, η AsusTek Computer Inc. δηλώνει ότι αυτή η συσκευή συμμορφώνεται με τις θεμελιώδεις απαιτήσεις και άλλες σχετικές διατάξεις των Οδηγιών της ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης είναι διαθέσιμο στη διεύθυνση: www.asus.com/support

Magyar Az ASUSTEK Computer Inc. ezennel kijelenti, hogy ez az eszköz megfelel a kapcsolódó irányelvek lényeges követelményeinek és egyéb vonatkozó rendelkezéseinek. Az EU megfélelősegi nyilatkozat teljes szövege innen letölthető: www.asus.com/support

Latviski ASUSTEK Computer Inc. ar šo paziņo, ka šī ierīce atbilst saistošo Direktīvu būtiskajām prasībām un citiem citiem saistošajiem nosacījumiem. Pilns ES atbilstības paziņojuma teksts pieejams šeit: www.asus.com/support

Lietuvių „ASUSTEK Computer Inc.“ šiuo tvirtina, kad šis įrenginys atitinka pagrindinius reikalavimus ir kitas svarbias susijusių direktyvų nuostatas. Visą ES atitikties deklaracijos tekstą galima rasti: www.asus.com/support

Norsk ASUSTEK Computer Inc. erklærer herved at denne enheten er i samsvar med hovedsaklige krav og andre relevante forskrifter i relaterte direktiver. Fullstendig tekst for EU-samsvarserklæringen finnes på: www.asus.com/support

Polski Firma ASUSTEK Computer Inc. niniejszym oświadcza, że urządzenie to jest zgodne z zasadniczymi wymogami i innymi właściwymi postanowieniami powiązanych dyrektyw. Pełny tekst deklaracji zgodności UE jest dostępny pod adresem: www.asus.com/support

Português A ASUSTEK Computer Inc. declara que este dispositivo está em conformidade com os requisitos essenciais e outras disposições relevantes das Diretivas relacionadas. Texto integral da declaração da UE disponível em: www.asus.com/support

Română ASUSTEK Computer Inc. declară că acest dispozitiv se conformează cerințelor esențiale și altor prevederi relevante ale directivelor conexe. Textul complet al declarației de conformitate a Uniunii Europene se găsește la: www.asus.com/support

Srpski ASUSTEK Computer Inc. ovim izjavljuje da je ovaj uređaj u saglasnosti sa osnovnim zahtevima i drugim relevantnim odredbama povezanih Direktiva. Pun tekst EU deklaracije o usaglašenosti je dostupan da adresi: www.asus.com/support

Slovensky Spoločnosť ASUSTEK Computer Inc. týmto vyhlasuje, že toto zariadenie vyhovuje základným požiadavkám a ostatým príslušným ustanoveniam príslušných smerníc. Celý text vyhlásenia o zhode pre štáty EÚ je dostupný na adrese: www.asus.com/support

Slovenščina ASUSTEK Computer Inc. izjavlja, da je ta naprava skladna z bistvenimi zahtevami in drugimi ustreznimi določbami povezanih direktiv. Celotno besedilo EU-izjave o skladnosti je na voljo na spletnem mestu: www.asus.com/support

Español Por la presente, ASUSTEK Computer Inc. declara que este dispositivo cumple los requisitos básicos y otras disposiciones pertinentes de las directivas relacionadas. El texto completo de la declaración de la UE de conformidad está disponible en: www.asus.com/support

Svenska ASUSTEK Computer Inc. förklarar härmed att denna enhet överensstämmer med de grundläggande kraven och andra relevanta föreskrifter i relaterade direktiv. Fulltext av EU-försäkran om överensstämmelse finns på: www.asus.com/support

Українська ASUSTEK Computer Inc. заявляє, що цей пристрій відповідає основним вимогам та іншим відповідним положенням відповідних Директив. Повний текст декларації відповідності стандартам ЄС доступний на: www.asus.com/support

Türkçe ASUSTEK Computer Inc., bu aygıtın temel gereksinimlerle ve ilişkili Yönergelerin diğer ilgili koşullarına uyumlu olduğunu beyan eder. AB uygunluk bildirimini tam metni şu adreste bulunabilir: www.asus.com/support

Bosanski ASUSTEK Computer Inc. ovim izjavljuje da je ovaj uređaj uskladan sa bitnim zahtjevima i ostalim odgovarajućim odredbama vezanih direktiva. Cijeli tekst EU izjave o uskladenosti dostupan je na: www.asus.com/support

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