PRIME Z490-V
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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.
- Your motherboard should only be used in environments with ambient temperatures between 0°C and 40°C.
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 description of the switches, jumpers, and connectors on the motherboard.

- **Chapter 2: Basic Installation**
  This chapter lists the hardware setup procedures that you have to perform when installing system components.

- **Chapter 3: BIOS and RAID Support**
  This chapter tells how to boot into the BIOS, upgrade BIOS using the EZ Flash Utility and support on RAID.

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.

- **CAUTION:** Information to prevent damage to the components and injuries to yourself 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.
## PRIME Z490-V specifications summary

<table>
<thead>
<tr>
<th>Section</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CPU</strong></td>
<td>Intel® Socket LGA1200 for 10th Gen Intel® Core™, Pentium® Gold and Celeron® Processors*</td>
</tr>
<tr>
<td></td>
<td>Supports Intel® 14 nm CPU</td>
</tr>
<tr>
<td></td>
<td>Supports Intel® Turbo Boost Technology 2.0 and Intel® Turbo Boost Max Technology 3.0**</td>
</tr>
<tr>
<td></td>
<td>* Refer to <a href="http://www.asus.com">www.asus.com</a> for CPU support list.</td>
</tr>
<tr>
<td></td>
<td>** Intel® Turbo Boost Max Technology 3.0 support depends on the CPU types.</td>
</tr>
<tr>
<td><strong>Chipset</strong></td>
<td>Intel® Z490 Chipset</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>4 x DIMM, Max. 128GB, DDR4 4266(O.C.) / 4133(O.C.) / 4000(O.C.) / 3866(O.C.) / 3733(O.C.) / 3600(O.C.) / 3466(O.C.) / 3400(O.C.) / 3333(O.C.) / 3300(O.C.) / 3200(O.C.) / 3000(O.C.) / 2933 / 2800 / 2666 / 2400 / 2133 MHz Non-ECC, Un-buffered Memory*</td>
</tr>
<tr>
<td></td>
<td>Dual Channel Memory Architecture</td>
</tr>
<tr>
<td></td>
<td>Supports Intel® Extreme Memory Profile (XMP)</td>
</tr>
<tr>
<td></td>
<td>OptiMem</td>
</tr>
<tr>
<td></td>
<td>* 10th Gen Intel® Core™ i9/i7 CPUs support 2933/2800/2666/2400/2133 natively.</td>
</tr>
<tr>
<td></td>
<td>* Refer to <a href="http://www.asus.com">www.asus.com</a> for the Memory QVL (Qualified Vendors Lists).</td>
</tr>
<tr>
<td><strong>Graphics</strong></td>
<td>1 x DisplayPort 1.4**</td>
</tr>
<tr>
<td></td>
<td>1 x HDMI™ 1.4b</td>
</tr>
<tr>
<td></td>
<td>* Graphics specifications may vary between CPU types.</td>
</tr>
<tr>
<td></td>
<td>** Support DisplayPort 1.4 with max. resolution of 4096 x 2304 @60Hz. Please refer to <a href="http://www.intel.com">www.intel.com</a> for any update.</td>
</tr>
<tr>
<td><strong>Expansion Slots</strong></td>
<td>Intel® 10th Gen Processors*</td>
</tr>
<tr>
<td></td>
<td>1 x PCIe 3.0 x16 slot (supports x16 mode)</td>
</tr>
<tr>
<td></td>
<td>Intel® Z490 Chipset</td>
</tr>
<tr>
<td></td>
<td>1 x PCIe 3.0 x16 slot (supports x4 mode)</td>
</tr>
<tr>
<td></td>
<td>4 x PCIe 3.0 x1 slots</td>
</tr>
<tr>
<td></td>
<td>* Support PCIe bifurcation for RAID on CPU function.</td>
</tr>
<tr>
<td><strong>Multi-GPU Support</strong></td>
<td>Supports AMD 2-Way CrossFireX™ Technology</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Total supports 2 x M.2 slots and 4 x SATA 6Gb/s ports</td>
</tr>
<tr>
<td></td>
<td>Intel® Z490 Chipset</td>
</tr>
<tr>
<td></td>
<td>M.2_1 slot (Key M), type 2242/2260/2280 (supports PCIe 3.0 x4 &amp; SATA modes)*</td>
</tr>
<tr>
<td></td>
<td>M.2_2 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 3.0 x4 &amp; SATA modes)</td>
</tr>
<tr>
<td></td>
<td>4 x SATA 6Gb/s ports</td>
</tr>
<tr>
<td></td>
<td>Intel® Rapid Storage Technology supports Raid 0,1,5,10</td>
</tr>
<tr>
<td></td>
<td>Intel® Optane™ Memory Ready</td>
</tr>
<tr>
<td></td>
<td>* When a device in SATA mode is installed on the M.2_1 socket, SATA6G_2 port cannot be used.</td>
</tr>
<tr>
<td><strong>Ethernet</strong></td>
<td>1 x Realtek RTL8111H 1Gb Ethernet</td>
</tr>
<tr>
<td><strong>Wireless &amp; Bluetooth</strong></td>
<td>M.2 slot (Key E) (Wi-Fi module is sold separately)</td>
</tr>
</tbody>
</table>

(continued on the next page)
## PRIME Z490-V specifications summary

| USB | Rear USB (Total 6 ports)  
2 x USB 3.2 Gen 2 ports (2 x Type-A)  
2 x USB 3.2 Gen 1 ports (2 x Type-A)  
2 x USB 2.0 ports (2 x Type-A)  
Front USB (Total 8 ports)  
2 x USB 3.2 Gen 1 headers support additional 4 USB 3.2 Gen 1 ports  
2 x USB 2.0 headers support additional 4 USB 2.0 ports |
|---|---|
| Audio | Realtek ALC887 7.1-Channel High Definition Audio CODEC  
- Jack-detection, Multi-streaming, Front Panel Jack-retasking  
- Supports up to 24-Bit/192kHz playback  
Audio Features:  
- Premium Japanese audio capacitors  
- Audio Shielding  
- Dedicated audio PCB layers |
| Back Panel I/O Ports | 2 x USB 3.2 Gen 2 ports (2 x Type-A)  
2 x USB 3.2 Gen 1 ports (2 x Type-A)  
2 x USB 2.0 ports (2 x Type-A)  
1 x DisplayPort  
1 x HDMI™ port  
1 x Realtek RTL8111H 1Gb Ethernet port  
6 x Audio jacks  
1 x PS/2 Keyboard/Mouse combo port |
| Internal I/O Connectors | Fan and cooling-related  
1 x 4-pin CPU Fan header  
1 x 4-pin AIO_Pump header  
3 x 4-pin Chassis Fan headers  
Power related  
1 x 24-pin Main Power connector  
1 x 8-pin +12V Power connector  
1 x 4-pin +12V Power connector  
Storage related  
2 x M.2 slots (Key M)  
4 x SATA 6Gb/s ports  
USB  
2 x USB 3.2 Gen 1 headers support additional 4 USB 3.2 Gen 1 ports  
2 x USB 2.0 headers support additional 4 USB 2.0 ports*  
Miscellaneous  
1 x AURA Addressable Gen 2 header*  
2 x AURA RGB headers*  
1 x Clear CMOS header |

*(continued on the next page)*
## PRIME Z490-V specifications summary

### Internal I/O Connectors

- 1 x COM Port header
- 1 x Front Panel Audio header (AAFP)
- 1 x M.2 slot (Key E)
- 1 x S/PDIF Out header
- 1 x SPI TPM header (14-1pin)
- 1 x 20-5pin System Panel header
- 1 x Thunderbolt header

*The USB_E1 port, USB_E2 port, ADD_Gen2 header and the two RGB headers share the bandwidth. But the ADD_Gen2 header and the two RGB headers will affect transfer rate only when you adjust their lighting effect.*

### Special Features

**ASUS 5X PROTECTION III**
- ASUS DIGI+ VRM (- Digital power design with Dr. MOS)
- ASUS LANGuard
- ASUS Overvoltage Protection
- ASUS SafeSlot Core
- ASUS Stainless-Steel Back I/O

**ASUS Q-Design**
- Q-DIMM
- Q-Slot

**ASUS Thermal Solution**
- Aluminum heatsink design

**ASUS EZ DIY**
- Procool

**AURA Sync**
- Standard RGB headers
- Addressable Gen 2 RGB header

### Software Features

**ASUS Exclusive Software Features**
- Armoury Crate
  - Aura Sync
- AI Suite 3
  - Performance And Power Saving Utility
  - TurboV EVO
  - EPU
  - Digi+ VRM
  - Fan Xpert 4
  - EZ Update
  - AI Charger
- WinRAR

**UEFI BIOS**
- ASUS EZ DIY
  - ASUS CrashFree BIOS 3
  - ASUS EZ Flash 3
  - ASUS UEFI BIOS EZ Mode

*(continued on the next page)*
<table>
<thead>
<tr>
<th>BIOS</th>
<th>128 Mb Flash ROM, UEFI AMI BIOS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manageability</td>
<td>WOL by PME, PXE</td>
</tr>
<tr>
<td>Operating System</td>
<td>Windows® 10 - 64 bit</td>
</tr>
<tr>
<td>Form Factor</td>
<td>ATX Form Factor</td>
</tr>
<tr>
<td></td>
<td>12 inch x 9.6 inch (30.5 cm x 24.4 cm)</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice. Please refer to the ASUS website for the latest specifications.
Connectors with shared bandwidth

- When a device in SATA mode is installed on the M.2_1 socket, SATA6G_2 port cannot be used.
- M.2_1 shares bandwidth with SATA6G_2.
# Package contents

Check your motherboard package for the following items.

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motherboard</td>
<td>1 x PRIME Z490-V motherboard</td>
</tr>
<tr>
<td>Cables</td>
<td>2 x SATA 6Gb/s cables</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>1 x I/O Shield</td>
</tr>
<tr>
<td></td>
<td>1 x M.2 SSD screw package</td>
</tr>
<tr>
<td></td>
<td>1 x M.2 Key E screw package</td>
</tr>
<tr>
<td>Installation Media</td>
<td>1 x Support DVD</td>
</tr>
<tr>
<td>Documentation</td>
<td>1 x User manual</td>
</tr>
</tbody>
</table>

If any of the above items is damaged or missing, contact your retailer.
## Installation tools and components

<table>
<thead>
<tr>
<th>Tool/Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phillips (cross) screwdriver</td>
</tr>
<tr>
<td>PC chassis</td>
</tr>
<tr>
<td>Power supply unit</td>
</tr>
<tr>
<td>Intel® LGA 1200 CPU</td>
</tr>
<tr>
<td>Intel® LGA 1200 compatible CPU Fan</td>
</tr>
<tr>
<td>DDR4 DIMM</td>
</tr>
<tr>
<td>SATA hard disk drive</td>
</tr>
<tr>
<td>SATA optical disc drive (optional)</td>
</tr>
<tr>
<td>Graphics card (optional)</td>
</tr>
<tr>
<td>M.2 SSD module (optional)</td>
</tr>
<tr>
<td>1 Bag of screws</td>
</tr>
</tbody>
</table>

The tools and components in the table above are not included in the motherboard package.
Product Introduction

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.
- Hold components by the edges to avoid touching the ICs on them.
- Whenever you uninstall any component, place it on a grounded antistatic pad or in the bag that came with the component.
- 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 layout
<table>
<thead>
<tr>
<th>Layout contents</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CPU socket</td>
<td>1-4</td>
</tr>
<tr>
<td>2. DIMM slots</td>
<td>1-5</td>
</tr>
<tr>
<td>3. Expansion slots</td>
<td>1-7</td>
</tr>
<tr>
<td>4. Fan and Pump headers</td>
<td>1-9</td>
</tr>
<tr>
<td>5. Power connectors</td>
<td>1-10</td>
</tr>
<tr>
<td>6. M.2 slots (SOCKET 3)</td>
<td>1-11</td>
</tr>
<tr>
<td>7. SATA 6Gb/s ports</td>
<td>1-12</td>
</tr>
<tr>
<td>8. USB 3.2 Gen 1 headers</td>
<td>1-13</td>
</tr>
<tr>
<td>9. USB 2.0 headers</td>
<td>1-14</td>
</tr>
<tr>
<td>10. AURA Addressable Gen 2 header</td>
<td>1-15</td>
</tr>
<tr>
<td>11. AURA RGB headers</td>
<td>1-16</td>
</tr>
<tr>
<td>12. Clear CMOS header</td>
<td>1-17</td>
</tr>
<tr>
<td>13. COM Port header</td>
<td>1-18</td>
</tr>
<tr>
<td>14. Front Panel Audio header</td>
<td>1-18</td>
</tr>
<tr>
<td>15. M.2 slot (Key E)</td>
<td>1-19</td>
</tr>
<tr>
<td>16. S/PDIF Out header</td>
<td>1-21</td>
</tr>
<tr>
<td>17. System Panel header</td>
<td>1-20</td>
</tr>
<tr>
<td>18. Thunderbolt header</td>
<td>1-21</td>
</tr>
<tr>
<td>19. SPI TPM header (14-1pin)</td>
<td>1-19</td>
</tr>
</tbody>
</table>
1. CPU socket

The motherboard comes with a LGA1200 socket designed for 10th Gen Intel® Core™, Pentium® Gold and Celeron® Processors.

- Ensure that you install the correct CPU designed for LGA1200 socket only. DO NOT install a CPU designed for other sockets on the LGA1200 socket.
- The CPU fits in only one correct orientation. DO NOT force the CPU into the socket to prevent bending the connectors on the socket and damaging the CPU.
- Ensure that all power cables are unplugged before installing the CPU.
- 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. ASUS will shoulder the cost of repair only if the damage is shipment/transit-related.
- 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 LGA1200 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.
2. **DIMM slots**

This motherboard comes with four Double Data Rate 4 (DDR4) Dual Inline Memory Module (DIMM) sockets.

---

A DDR4 memory module is notched differently from a DDR, DDR2, or DDR3 module. **DO NOT** install a DDR, DDR2, or DDR3 memory module to the DDR4 slot.

---

**Recommended memory configurations**
Memory configurations

You may install 2 GB, 4 GB, 8 GB, 16 GB, and 32 GB unbuffered and non-ECC DDR4 DIMMs into the DIMM sockets.

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.

- 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 or overclocking condition.

- Always install the DIMMS with the same CAS Latency. For an optimum compatibility, we recommend that you install memory modules of the same version or data code (D/C) from the same vendor. Check with the vendor to get the correct memory modules.

- Visit the ASUS website for the latest QVL.
3. Expansion slots

Unplug the power cord before adding or removing expansion cards. Failure to do so may cause you physical injury and damage motherboard components.

Recommended VGA configuration

<table>
<thead>
<tr>
<th>Slot Description</th>
<th>Single VGA</th>
<th>Dual VGA</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCIe x16_1</td>
<td>x16</td>
<td>x16</td>
</tr>
<tr>
<td>PCIe x16_2</td>
<td>-</td>
<td>x4</td>
</tr>
</tbody>
</table>

- We recommend that you provide sufficient power when running CrossFireX™ mode.
- Ensure to connect the 8-pin and 4-pin power plugs when running CrossFireX™ mode.
- Connect a chassis fan to the chassis fan connectors when using multiple graphics cards for better thermal environment.
Hyper M.2 X16 series card configuration

<table>
<thead>
<tr>
<th>Slot Description</th>
<th>up to 3 Intel® SSD on CPU support</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCIe x16_1</td>
<td>x8+x4+x4</td>
</tr>
</tbody>
</table>

- Hyper M.2 X16 series card is sold separately.
- Ensure to install the Hyper M.2 X16 series card to PCIe x16_1. If you wish to connect a display, we suggest using the internal VGA or installing a VGA card to PCIe x16_2, which will run at x4.
- Enable the Hyper M.2 X16 series card under BIOS settings.
4. Fan and Pump headers

The Fan and Pump headers allow you to connect fans or pumps to cool the system.

- DO NOT forget to connect the fan cables to the fan headers. Insufficient air flow inside the system may damage the motherboard components. These are not jumpers! Do not place jumper caps on the fan headers!
- Ensure the cable is fully inserted into the header.

<table>
<thead>
<tr>
<th>Header</th>
<th>Max. Current</th>
<th>Max. Power</th>
<th>Default Speed</th>
<th>Shared Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU_FAN</td>
<td>1A</td>
<td>12W</td>
<td>Q-Fan Controlled</td>
<td>-</td>
</tr>
<tr>
<td>CHA_FAN1</td>
<td>1A</td>
<td>12W</td>
<td>Q-Fan Controlled</td>
<td>-</td>
</tr>
<tr>
<td>CHA_FAN2</td>
<td>1A</td>
<td>12W</td>
<td>Q-Fan Controlled</td>
<td>-</td>
</tr>
<tr>
<td>CHA_FAN3</td>
<td>1A</td>
<td>12W</td>
<td>Q-Fan Controlled</td>
<td>-</td>
</tr>
<tr>
<td>AIO_PUMP</td>
<td>1A</td>
<td>12W</td>
<td>Full-Speed</td>
<td>-</td>
</tr>
</tbody>
</table>
5. **Power connectors**

These Power connectors allow you to connect your motherboard to a power supply. The power supply plugs are designed to fit in only one orientation. Find the proper orientation and push down firmly until the power supply plugs are fully inserted.

- **DO NOT** connect the 4-pin power plug only. The motherboard may overheat under heavy usage.
- Ensure to connect the 8-pin power plug, or connect both the 8-pin and 4-pin power plugs.

- For a fully configured system, we recommend that you use a power supply unit (PSU) that complies with ATX 12V Specification 2.0 (or later version) and provides a minimum power of 350 W.
- We recommend that you use a PSU with a higher power output when configuring a system with more power-consuming devices. The system may become unstable or may not boot up if the power is inadequate.
- If you want to use two or more high-end PCI Express x16 cards, use a PSU with 1000W power or above to ensure the system stability.
6. **M.2 slots**

The M.2 slots allow you to install M.2 devices such as M.2 SSD modules.

- M.2_1 slot (Key M), type 2242/2260/2280 (supports SATA & PCIe 3.0 x4 modes).
- M.2_2 slot (Key M), type 2242/2260/2280/22110 (supports SATA & PCIe 3.0 x4 modes).
- When a device in SATA mode is installed on the M.2_1 socket, SATA6G_2 port cannot be used.
- M.2 slots support IRST (Intel® Rapid Storage Technology).

The M.2 SSD module is purchased separately.
7. **SATA 6Gb/s ports**

The SATA 6Gb/s ports allow you to connect SATA devices such as optical disc drives and hard disk drives via a SATA cable.

![Diagram of SATA connectors]

If you installed SATA storage devices, you can create a RAID 0, 1, 5, and 10 configuration with the Intel® Rapid Storage Technology through the onboard Intel® Z490 chipset.

- The slots are set to [AHCI Mode] by default. If you intend to create a SATA RAID set using these connectors, set the SATA Mode item in the BIOS to [Intel RST Premium (RAID)].

- When a device in SATA mode is installed on the M.2_1 socket, SATA6G_2 port cannot be used.

- Before creating a RAID set, refer to the **RAID Configuration Guide**. You can download the **RAID Configuration Guide** from the ASUS website.
8. **USB 3.2 Gen 1 headers**

The USB 3.2 Gen 1 headers allow you to connect a USB 3.2 Gen 1 module for additional USB 3.2 Gen 1 ports. The USB 3.2 Gen 1 headers provide data transfer speeds of up to 5 Gb/s.

The USB 3.2 Gen 1 module is purchased separately.

The plugged USB 3.2 Gen 1 device may run on xHCI or EHCI mode depending on the operating system’s setting.
9. **USB 2.0 headers**

The USB 2.0 headers allow you to connect a USB module for additional USB 2.0 ports. The USB 2.0 headers provide data transfer speeds of up to 480 Mb/s.

---

**Warning:**

DO NOT connect a 1394 cable to the USB connectors. Doing so will damage the motherboard!

---

The USB 2.0 module is purchased separately.
10. **AURA Addressable Gen 2 header**

The Addressable Gen 2 header allows you to connect individually addressable RGB WS2812B LED strips or WS2812B based LED strips.

![Addressable Gen 2 header diagram](image)

The Addressable Gen 2 header supports WS2812B addressable RGB LED strips (5V/Data/Ground), with a maximum power rating of 3A (5V) and the addressable header on this board can handle a combined maximum of 500 LEDs.

Before you install or remove any component, ensure that the 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.

- Actual lighting and color will vary with LED strip.
- If your LED strip does not light up, check if the addressable RGB LED strip is connected in the correct orientation, and the 5V connector is aligned with the 5V header on the motherboard.
- The addressable RGB LED strip will only light up when the system is powered on.
- The addressable RGB LED strip is purchased separately.
11. **AURA RGB headers**

The RGB headers allow you to connect RGB LED strips.

![Diagram of AURA RGB headers](image)

The RGB headers support 5050 RGB multi-color LED strips (12V/G/R/B), with a maximum power rating of 3A (12V).

Before you install or remove any component, ensure that the 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.

- Actual lighting and color will vary with LED strip.
- If your LED strip does not light up, check if the RGB LED extension cable and the RGB LED strip is connected in the correct orientation, and the 12V connector is aligned with the 12V header on the motherboard.
- The LED strip will only light up when the system is powered on.
- The LED strip is purchased separately.
12. Clear CMOS header

This header allows you to clear the Real Time Clock (RTC) RAM in CMOS. You can clear the CMOS memory of date, time, and system setup parameters by erasing the CMOS RTC RAM data. The onboard button cell battery powers the RAM data in CMOS, which include system setup information such as system passwords.

To erase the RTC RAM:

1. Turn OFF the computer and unplugging 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 <Del> 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.
13. **COM Port header**

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. The COM module is purchased separately.

14. **Front Panel Audio header**

The front panel audio header is for a chassis-mounted front panel audio I/O module that supports HD Audio. Connect one end of the front panel audio I/O module cable to this header. We recommend that you connect a high-definition front panel audio module to this connector to avail of the motherboard’s high-definition audio capability.
15. **M.2 slot (Key E)**
   This socket allows you to install an M.2 (WIFI) module.

   ![M.2 (WIFI) module](image)

   The M.2 (NGFF) SSD module is sold separately.

16. **SPI TPM header (14-1pin)**
   This header supports a Trusted Platform Module (TPM) system with a Serial Peripheral Interface (SPI), allowing you to securely store keys, digital certificates, passwords, and data. A TPM system also helps enhance network security, protects digital identities, and ensures platform integrity.

   ![SPI TPM header](image)

   The TPM module is purchased separately.
17. **System Panel header**

The System Panel header supports several chassis-mounted functions.

- **System power LED (2-pin PLED)**
  This 2-pin header is for the system power LED. Connect the chassis power LED cable to this header. The system power LED lights up when you turn on the system power, and blinks when the system is in sleep mode.

- **Hard disk drive activity LED (2-pin HDD_LED)**
  This 2-pin header is for the HDD Activity LED. Connect the HDD Activity LED cable to this header. The HDD LED lights up or flashes when data is read from or written to the HDD.

- **System warning speaker (4-pin SPEAKER)**
  This 4-pin header is for the chassis-mounted system warning speaker. The speaker allows you to hear system beeps and warnings.

- **ATX power button/soft-off button (2-pin PWRSW)**
  This header is for the system power button. Pressing the power button turns the system on or puts the system in sleep or soft-off mode depending on the operating system settings. Pressing the power switch for more than four seconds while the system is ON turns the system OFF.

- **Reset button (2-pin RESET)**
  This 2-pin header is for the chassis-mounted reset button for system reboot without turning off the system power.
18. **Thunderbolt header**

The Thunderbolt header allows you to connect an add-on Thunderbolt I/O card that supports Intel’s Thunderbolt Technology, allowing you to connect up to six Thunderbolt-enabled devices and a DisplayPort-enabled display in a daisy-chain configuration.

The add-on Thunderbolt I/O card and Thunderbolt cables are purchased separately.

16. **S/PDIF Out header**

This header is for an additional Sony/Philips Digital Interface (S/PDIF) port. Connect the S/PDIF Out module cable to this header, then install the module to a slot opening at the back of the system chassis.

The S/PDIF Out module is purchased separately.
## 2.1 Building your PC system

The diagrams in this section are for reference only. The motherboard layout may vary with models, but the installation steps are the same for all models.

### 2.1.1 CPU installation

- Ensure that you install the correct CPU designed for LGA1200 socket only. DO NOT install a CPU designed for LGA1155, LGA1156, and LGA1151 sockets on the LGA1200 socket.
- ASUS will not cover damages resulting from incorrect CPU installation/removal, incorrect CPU orientation/placement, or other damages resulting from negligence by the user.
2.1.2 Cooling system installation

To install a CPU heatsink and fan assembly

1. Apply Thermal Interface Material to the CPU cooling system and CPU before you install the cooling system, if necessary.

2. 

3. 

4.
To install an AIO cooler

If you wish to install an AIO cooler, we recommend installing the AIO cooler after installing the motherboard into the chassis.
2.1.3 DIMM installation

1

2

3

To remove a DIMM

B
A
2.1.4 M.2 installation

1

2

3

The M.2 is purchased separately.
2.1.5 Motherboard installation

1. Install the ASUS I/O Shield to the chassis rear I/O panel.

Some sharp edges and points might cause physical injury. We recommend you put on cut or puncture resistant gloves before motherboard and I/O shield installation.

2. Place the motherboard into the chassis, ensuring that its rear I/O ports are aligned to the chassis’ rear I/O panel.
3. Place nine (9) screws into the holes indicated by circles to secure the motherboard to the chassis.

DO NOT over tighten the screws! Doing so can damage the motherboard.
2.1.6 ATX power connection

1

2

• DO NOT connect the 4-pin power plug only. The motherboard may overheat under heavy usage.

• Ensure to connect the 8-pin power plug, or connect both the 8-pin and 4-pin power plugs.
2.1.7 SATA device connection

1

2
2.1.8 Front I/O connector

To install the front panel connector

To install USB 3.2 Gen 1 connector

To install USB 2.0 connector

To install front panel audio connector
2.1.9 Expansion card installation

To install PCIe x16 cards

To install PCIe x1 cards
To install ThunderboltEX 3-TR card

Ensure to install the ThunderboltEX 3-TR card to a PCIe slot from PCH.

- Step 6 is optional. Please connect a 6-pin PCIe power connector when you wish to use the USB Type-C® port Thunderbolt quick charge feature to charge a 5V or more device. The ThunderboltEX 3-TR card can support quick charging up to 100W.

- The TypeC_1 port can support up to 20V devices, and the TypeC_2 port can support up to 9V devices when the 6-pin PCIe power connector is connected.

- The Thunderbolt card is sold separately.
2.2 Motherboard rear and audio connections

2.2.1 Rear I/O connection

<table>
<thead>
<tr>
<th>Rear panel connectors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. PS/2 mouse/keyboard combo port</td>
</tr>
<tr>
<td>2. Ethernet (RJ-45) port*</td>
</tr>
<tr>
<td>3. USB 2.0 ports 9 and 10</td>
</tr>
<tr>
<td>4. HDMI™ port</td>
</tr>
<tr>
<td>5. DisplayPort</td>
</tr>
<tr>
<td>6. USB 3.2 Gen 2 Type-A ports 1 and 2</td>
</tr>
<tr>
<td>7. USB 3.2 Gen 1 Type-A ports 5 and 6</td>
</tr>
<tr>
<td>8. Audio jacks**</td>
</tr>
</tbody>
</table>

* and **: Refer to the tables on the next page for Ethernet port LEDs, and audio port definitions.

- 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.

- Due to the design of the Intel chipset, all USB devices connected to the USB 3.2 Gen 1 ports are controlled by the xHCI controller. Some legacy USB devices must update their firmware for better compatibility.
* Ethernet port LED indications

<table>
<thead>
<tr>
<th>Activity Link LED</th>
<th>Speed LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status</td>
<td>Description</td>
</tr>
<tr>
<td>Off</td>
<td>No link</td>
</tr>
<tr>
<td>Orange</td>
<td>Linked</td>
</tr>
<tr>
<td>Orange (Blinking)</td>
<td>Data activity</td>
</tr>
<tr>
<td>Orange (Blinking then steady)</td>
<td>Ready to wake up from S5 mode</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Port</th>
<th>Headset 2-channel</th>
<th>4-channel</th>
<th>5.1-channel</th>
<th>7.1-channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Blue</td>
<td>Line In</td>
<td>Line In</td>
<td>Line In</td>
<td>Line In</td>
</tr>
<tr>
<td>Lime</td>
<td>Line Out</td>
<td>Front Speaker Out</td>
<td>Front Speaker Out</td>
<td>Front Speaker Out</td>
</tr>
<tr>
<td>Pink</td>
<td>Mic In</td>
<td>Mic In</td>
<td>Mic In</td>
<td>Mic In</td>
</tr>
<tr>
<td>Orange</td>
<td>–</td>
<td>–</td>
<td>Center/Sub woofer</td>
<td>Center/Sub woofer</td>
</tr>
<tr>
<td>Black</td>
<td>–</td>
<td>Rear Speaker Out</td>
<td>Rear Speaker Out</td>
<td>Rear Speaker Out</td>
</tr>
<tr>
<td>Gray</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>Side Speaker Out</td>
</tr>
</tbody>
</table>

2.2.2 Audio I/O connections

Audio I/O ports

Connect to Headphone and Mic
Chapter 2: Basic Installation

Connect to Stereo Speakers

Connect to 2-channel Speakers

Connect to 4-channel Speakers
Connect to 5.1-channel Speakers

Connect to 7.1-channel Speakers
2.3  **Starting up for the first time**

1. After making all the connections, replace the system case cover.
2. Ensure that all switches are off.
3. Connect the power cord to the power connector at the back of the system chassis.
4. Connect the power cord to a power outlet that is equipped with a surge protector.
5. Turn on the devices in the following order:
   a. Monitor
   b. External SCSI devices (starting with the last device on the chain)
   c. System power
6. After applying power, the system power LED on the system front panel case lights up. For systems with ATX power supplies, the system LED lights up when you press the ATX power button. If your monitor complies with the “green” standards or if it has a “power standby” feature, the monitor LED may light up or change from orange to green after the system LED turns on.

   The system then runs the power-on self tests (POST). While the tests are running, the BIOS beeps (refer to the BIOS beep codes table) or additional messages appear on the screen. If you do not see anything within 30 seconds from the time you turned on the power, the system may have failed a power-on test. Check the jumper settings and connections or call your retailer for assistance.

<table>
<thead>
<tr>
<th>BIOS Beep</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>One short beep</td>
<td>VGA detected</td>
</tr>
<tr>
<td></td>
<td>Quick boot set to disabled</td>
</tr>
<tr>
<td></td>
<td>No keyboard detected</td>
</tr>
<tr>
<td>One continuous beep followed by two short</td>
<td>No memory detected</td>
</tr>
<tr>
<td>beeps then a pause (repeated)</td>
<td></td>
</tr>
<tr>
<td>One continuous beep followed by three short</td>
<td>No VGA detected</td>
</tr>
<tr>
<td>beeps</td>
<td></td>
</tr>
<tr>
<td>One continuous beep followed by four short</td>
<td>Hardware component failure</td>
</tr>
<tr>
<td>beeps</td>
<td></td>
</tr>
</tbody>
</table>

7. At power on, hold down the <Delete> key to enter the BIOS Setup. Follow the instructions in Chapter 3.

2.4  **Turning off the computer**

While the system is ON, press the power button for less than four seconds to put the system on sleep mode or soft-off mode, depending on the BIOS setting. Press the power button for more than four seconds to let the system enter the soft-off mode regardless of the BIOS setting.
BIOS and RAID Support

3.1 Knowing BIOS

The new ASUS UEFI BIOS is a Unified Extensible Interface that complies with UEFI architecture, offering a user-friendly interface that goes beyond the traditional keyboard-only BIOS controls to enable a more flexible and convenient mouse input. You can easily navigate the new UEFI BIOS with the same smoothness as your operating system. The term “BIOS” in this user manual refers to “UEFI BIOS” unless otherwise specified.

BIOS (Basic Input and Output System) stores system hardware settings such as storage device configuration, overclocking settings, advanced power management, and boot device configuration that are needed for system startup in the motherboard CMOS. In normal circumstances, the default BIOS settings apply to most conditions to ensure optimal performance. **DO NOT change the default BIOS settings** except in the following circumstances:

- An error message appears on the screen during the system bootup and requests you to run the BIOS Setup.
- You have installed a new system component that requires further BIOS settings or update.

Inappropriate BIOS settings may result to instability or boot failure. **We strongly recommend that you change the BIOS settings only with the help of a trained service personnel.**

- When downloading or updating the BIOS file, rename it as **PZ490V.CAP** for this motherboard.
- BIOS settings and options may vary due to different BIOS release versions. Please refer to the latest BIOS version for settings and options.

For more information on BIOS configurations, please refer to [https://www.asus.com/support](https://www.asus.com/support), or download the BIOS manual by scanning the QR code.
3.2 BIOS setup program
Use the BIOS Setup to update the BIOS or configure its parameters. The BIOS screen includes navigation keys and brief onscreen help to guide you in using the BIOS Setup program.

Entering BIOS 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>+<Delete> 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.

After doing either of the three options, press <Delete> key to enter BIOS.

• 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>.
• If the system fails to boot after changing any BIOS setting, try to clear the CMOS and reset the motherboard to the default value.
• The BIOS setup program does not support Bluetooth devices.

BIOS menu screen
The BIOS Setup program can be used under two modes: EZ Mode and Advanced Mode. You can change modes from Setup Mode in Boot menu or by pressing the <F7> hotkey.
3.3 ASUS EZ Flash 3
The ASUS EZ Flash 3 feature allows you to update the BIOS without using 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 or press hotkey <F5>.

To update the BIOS by USB:

- This function can support 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!

1. Insert the USB flash disk that contains the latest BIOS file to the USB port.
2. Enter the Advanced Mode of the BIOS setup program. Go to the Tool menu to select ASUS EZ Flash 3 Utility and press <Enter>.
3. Select via Storage Device(s).
4. Press <Tab> to switch to the Drive field.
5. Press the Up/Down arrow keys to find the USB flash disk that contains the latest BIOS, and then press <Enter>.
6. Press <Tab> to switch to the Folder field.
7. Press the Up/Down arrow keys to find the BIOS file, and then press <Enter> to perform the BIOS update process. Reboot the system when the update process is done.
3.4 ASUS CrashFree BIOS 3

The ASUS CrashFree BIOS 3 utility 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 BIOS file.

The BIOS file in the motherboard support DVD may be older than the BIOS file published on the ASUS official website. If you want to use the newer BIOS file, download the file at https://www.asus.com/support/ and save it to a USB flash drive.

Recovering the BIOS

To recover the BIOS:

1. Turn on the system.
2. Insert the motherboard support DVD to the optical drive, or the USB flash drive containing 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 automatically.
4. The system requires you to enter BIOS Setup to recover the BIOS setting. 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!
3.5 RAID configurations

The motherboard comes with the Intel® Rapid Storage Technology that supports RAID 0, RAID 1, RAID 5 and RAID 10 configuration.

For more information on configuring your RAID sets, please refer to the *RAID Configuration Guide* which you can find at https://www.asus.com/support, or by scanning the QR code.

**RAID definitions**

**RAID 0 (Data striping)** optimizes two identical hard disk drives to read and write data in parallel, interleaved stacks. Two hard disks perform the same work as a single drive but at a sustained data transfer rate, double that of a single disk alone, thus improving data access and storage. Use of two new identical hard disk drives is required for this setup.

**RAID 1 (Data mirroring)** copies and maintains an identical image of data from one drive to a second drive. If one drive fails, the disk array management software directs all applications to the surviving drive as it contains a complete copy of the data in the other drive. This RAID configuration provides data protection and increases fault tolerance to the entire system. Use two new drives or use an existing drive and a new drive for this setup. The new drive must be of the same size or larger than the existing drive.

**RAID 5** stripes both data and parity information across three or more hard disk drives. Among the advantages of RAID 5 configuration include better HDD performance, fault tolerance, and higher storage capacity. The RAID 5 configuration is best suited for transaction processing, relational database applications, enterprise resource planning, and other business systems. Use a minimum of three identical hard disk drives for this setup.

**RAID 10** is data striping and data mirroring combined without parity (redundancy data) having to be calculated and written. With the RAID 10 configuration you get all the benefits of both RAID 0 and RAID 1 configurations. Use four new hard disk drives or use an existing drive and three new drives for this setup.
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)

Le présent appareil est conforme aux CNR d’Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes : (1) l’appareil ne doit pas produire de brouillage, et (2) l’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

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

VCCI: Japan Compliance Statement

Class B ITE

 KC: Korea Warning Statement

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Declaration of compliance for product environmental regulation

ASUS follows the green design concept to design and manufacture our products, and makes sure that each stage of the product life cycle of ASUS product is in line with global environmental regulations. In addition, ASUS disclose the relevant information based on regulation requirements.

Please refer to http://csr.asus.com/Compliance.htm for information disclosure based on regulation requirements ASUS is complied with:

EU REACH and Article 33
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.

EU RoHS
This product complies with the EU RoHS Directive. For more details, see http://csr.asus.com/english/article.aspx?id=35

India RoHS
This product complies with the “India E-Waste (Management) Rules, 2016” and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs) in concentrations exceeding 0.1% by weight in homogenous materials and 0.01% by weight in homogenous materials for cadmium, except for the exemptions listed in Schedule II of the Rule.

Vietnam RoHS
ASUS products sold in Vietnam, on or after September 23, 2011, meet the requirements of the Vietnam Circular 30/2011/TT-BCT.
Các sản phẩm ASUS bán tại Việt Nam, vào ngày 23 tháng 9 năm 2011 trở về sau, đều phải đáp ứng các yêu cầu của Thông tư 30/2011/TT-BCT của Việt Nam.

Turkey RoHS
AEEE Yönetmeliğine Uygundur
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.

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.

Regional notice for California

WARNING

Cancer and Reproductive Harm - www.P65Warnings.ca.gov
Appendix A-5

Română ASUSTeK Computer Inc. declară că acest dispozitiv se conformează cerințelor esențiale și alțor prevederi relevante ale directivei cu care se confruntă. Textul complet al declarației de conformitate a unuiui Uniunii Europeene se găsește la:

Scriși ASUSTeK Computer Inc. declară că acest dispozitiv se conformează cerințelor esențiale și alțor prevederi relevante ale directivei cu care se confruntă. Textul complet al declarației de conformitate a unuiui Uniunii Europeene se găsește la:

English ASUSTeK Computer Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of related Directives. Full text of EU declaration of conformity is available at:

Français ASUSTeK Computer Inc. déclare par la présente que cet appareil est conforme aux critères essentiels et autres clauses pertinentes des directives concernées. La déclaration de conformité de l’UE peut être téléchargée à partir du site Internet suivant:

Deutsch ASUSTeK Computer Inc. erklärt hiermit, dass dieses Gerät mit den wesentlichen Anforderungen und anderen relevanten Bestimmungen der zuehingehörigen Richtlinien übereinstimmt. Der gesamte Text der EU-Konformitätserklärung ist verfügbar unter:

Italiaano ASUSTeK Computer Inc. con la presente dichiara che questo dispositivo è conforme ai requisiti essenziali e alle altre disposizioni pertinenti con le direttive correlate. Il testo completo della dichiarazione di conformità UE è disponibile all’indirizzo:

Polski ASUSTeK Computer Inc. z tabindex zaznaczono. Co urządzenie to jest zgodne z zasadniczymi wymogami i innymi właściwymi postanowieniami powiązanymi dyrektyw. Pełny tekst deklaracji zgodności UE jest dostępny pod adresem:

Hrvatski ASUSTeK Computer Inc. ovdje izjavljava da je ovaj uređaj u skladu s bitnim zahtjevima i ostalim odgovarajućim odredbama vezanim direktivama. Potpun tekst o deklaraciji za skladnost na RH je dostupan na adresi:

Čeština Společnost ASUSTeK Computer Inc. tímto prohlašuje, že toto zařízení splňuje základní požadavky a další příslušná ustanovení souvisejících směrnic. Pílně známé prohlášení o shodě EU je dostupné na adrese:

Dansk ASUSTeK Computer Inc. erklærer hermed, at denne enhed er i overensstemmelse med hovedkravene og andre relevante bestemmelser i de relaterede direktiver. Hele EU-overensstemmelserne kan findes på:

Nederlands ASUSTeK Computer Inc. verklaart hierbij dat dit apparaat voldoet aan de essentiële vereisten en andere relevante bepalingen van de verwante richtlijnen. De volledige tekst van de EU-verklaring van conformiteit is beschikbaar op:

Eesti ASUSTeK Computer Inc. ei saa sõltumatu alustada muid vahepeoleid, kui see on esinenud sellele direktiivi sõltumatu alustamisohutuses.

Suomi ASUSTeK Computer Inc. ilmoittaa tätän, että tämä laite on asiakkaanolevan direktiivien omanvaisen vaatimusten ja muiden tätä koskevien säädösten mukainen. EU-yhdenmukaisuusilmoituksen koko teksti on luettavissa osoitteessa:

Slovenščina Splošne izjavitev ASUSTeK Computer Inc. izjavlja, da je toto zařízenje v skladu z osnovnimi zahtevami in drugimi ustreznimi ustanovami povezanih smernic. Celotno besedilo EU-izjave o skladnosti je na voljo na spletnem mestu:

Bosanski ASUSTeK Computer Inc. ovim izjavljuje da je ovaj uređaj usklađen sa bitnim zahtjevima i ostalim odgovarajućim odredbama vezanim direktivama. Cjeli tekst EU izjave o uskladnosti dostupan je na:

Slovensky ASUSTeK Computer Inc. týmto vyhlasuje, že toto zariadenie vyhovuje základným požiadavkám a ostatným príslušným ustanoviam príslušných smerník. Celý text vyhlásenia o zhode je na volno na spletnej mestu:

Český ASUSTeK Computer Inc. tímto prohlašuje, že toto zařízení splňuje základní požadavky a další příslušná ustanovení souvisejících směrnic. Pílně známé prohlášení o shodě EU je dostupné na adrese:

Hrvatski ASUSTeK Computer Inc. primjenjuje ovaj pravilnik i drugi pravilnici vezani za ovaj uređaj. Ukupan tekst EU-conformiteta se može pronaći na:

Bosanski ASUSTeK Computer Inc. ovim izjavljuje da je ovaj uređaj usklađen sa bitnim zahtjevima i ostalim odgovarajućim odredbama vezanim direktivama. Cjeli tekst EU izjave o uskladnosti dostupan je na:

Srpski ASUSTeK Computer Inc. ovim izjavljuje da je ovaj uređaj u saglasnosti sa osnovnim zahtevima i drugim relevantnim odredbama porezanih Direktiva. Funk tekst EU deklaracije o usaglašenosti je dostupan na adresi:

Slovensky ASUSTeK Computer Inc. týmto vyhlasuje, že toto zariadenie vyhovuje základným požiadavkám a ostatným príslušným ustanoviam príslušných smerník. Celý text vyhlásenia o zhode pre štáty EU je dostupný na adrese:

Slovenčina 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:

Magyar ASUSTeK Computer Inc. ezzel kijelenti, hogy ez az eszköz megfelel a kapcsolódó irányelvek lényeges követelményeinek és egyéb vonatkozó rendelkezéseinek. Az EU megfelelőségnyilatkozat teljes szövege innen letölthető:

Turkçe ASUSTeK Computer Inc., bu aygıtın temel gereksinimlerine ve ilişkili Yönetmelere dijger ilgili koşulları uygulamada uyumlu olduğunu beyan eder. AB uyguluk bildiriminin tam metni şu adresde bulunabilir:

Bosanski ASUSTeK Computer Inc. ovim izjavljuje da je ovaj uređaj usklađen sa bitnim zahtjevima i ostalim odgovarajućim odredbama vezanim direktivama. Cjeli tekst EU izjave o uskladnosti dostupan je na:

Bosanski ASUSTeK Computer Inc. ovim izjavljuje da je ovaj uređaj usklađen sa bitnim zahtjevima i ostalim odgovarajućim odredbama vezanim direktivama. Cjeli tekst EU izjave o uskladnosti dostupan je na:
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