

**ROG  
MAXIMUS  
Z790  
EXTREME**

**ASUS**

**Motherboard**

E20614  
First Edition  
August 2022

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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.

## Button/Coin Batteries Safety Information



|   |   |
|---|---|
|  <b>WARNING</b>  |   |
| <b>KEEP OUT OF REACH OF CHILDREN</b><br>Swallowing can lead to chemical burns, perforation of soft tissue, and death. Severe burns can occur within 2 hours of ingestion. Seek medical attention immediately. |  |

## 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](http://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 user guide.



**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.

# ROG MAXIMUS Z790 EXTREME specifications summary

|                 |  |
|-----------------|--|
| CPU             | <p>Intel® Socket LGA1700 for 13<sup>th</sup> Gen Intel® Core™ Processors &amp; 12<sup>th</sup> Gen Intel® Core™, Pentium® Gold and Celeron® Processors*</p> <p>Supports Intel® Turbo Boost Technology 2.0 and Intel® Turbo Boost Max Technology 3.0**</p> <p>* Refer to <a href="http://www.asus.com">www.asus.com</a> for CPU support list.</p> <p>** Intel® Turbo Boost Max Technology 3.0 support depends on the CPU types.</p>   |
| Chipset         | Intel® Z790 Chipset  |
| Memory          | <p>4 x DIMM, Max. 128GB, DDR5 7200(OC) / 7000(OC) / 6800(OC) / 6600(OC) / 6400(OC) / 6200(OC) / 6000(OC) / 5800(OC) / 5600 / 5400 / 5200 / 5000 / 4800 Non-ECC, Un-buffered Memory*</p> <p>Dual Channel Memory Architecture</p> <p>Supports Intel® Extreme Memory Profile (XMP)</p> <p>OptiMem III</p> <p>* Supported memory types, data rate(Speed), and number of DRAM modules vary depending on the CPU and memory configuration, for more information refer to <a href="http://www.asus.com">www.asus.com</a> for memory support list.</p>   |
| Graphics        | <p>1 x HDMI® port*</p> <p>2 x Intel® Thunderbolt™ 4 ports (USB Type-C®) supports DisplayPort and Thunderbolt™ video outputs**</p> <p>* Supports 4K@60Hz as specified in HDMI 2.1.</p> <p>** VGA resolution support depends on processors' or graphic cards' resolution.</p>  |
| Expansion Slots | <p>Intel® 13<sup>th</sup> &amp; 12<sup>th</sup> Gen Processors*</p> <p>2 x PCIe 5.0 x16 slots (supports x16 or x8/x8 modes)**</p> <p>Intel® Z790 Chipset</p> <p>1 x PCIe 4.0x4 slot</p> <p>* Please check PCIe bifurcation table on support site (<a href="https://www.asus.com/support/FAQ/1037507/">https://www.asus.com/support/FAQ/1037507/</a>).</p> <p>** M.2_1 shares bandwidth with PCIEX16(G5)_2. When M.2_1 is enabled, PCIEX16(G5)_2 will be disabled.x</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">  <p>To ensure compatibility of the device installed, please refer to <a href="https://www.asus.com/support/">https://www.asus.com/support/</a> for the list of supported peripherals.</p> </div> |
| Storage         | <p><b>Total supports 5 x M.2 slots and 6 x SATA 6Gb/s ports*</b></p> <p>Intel® 13<sup>th</sup> &amp; 12<sup>th</sup> Gen Processors</p> <p>M.2_1 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 5.0 x4 mode)**</p> <p>M.2_2 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode)</p>  |

(continued on the next page)

# ROG MAXIMUS Z790 EXTREME specifications summary

|                      |   |
|----------------------|---|
| Storage              | <p><b>Intel® Z790 Chipset</b></p> <p>M.2_3 slot (Key M), type 2280 (supports PCIe 4.0 x4 &amp; SATA modes)</p> <p>DIMM.2_1 slot (Key M) via ROG DIMM.2, type 2242/2260/2280/22110 (supports PCIe 4.0 x4 mode)</p> <p>DIMM.2_2 slot (Key M) via ROG DIMM.2, type 2242/2260/2280/22110 (supports PCIe 4.0 x4 mode)</p> <p>6 x SATA 6Gb/s ports***</p> <p>* Intel® Rapid Storage Technology supports PCIe RAID 0/1/5/10, SATA RAID 0/1/5/10.</p> <p>** M.2_1 shares bandwidth with PCIe16(G5)_2. When M.2_1 is enabled, PCIe16(G5)_2 will be disabled.</p> <p>*** RAID configuration and boot drives are not supported on the SATA6G_E1-2 ports</p>  |
| Ethernet             | <p>1 x Intel® 2.5Gb Ethernet</p> <p>1 x Marvell® AQtion 10Gb Ethernet</p> <p>ASUS LANGuard</p>  |
| Wireless & Bluetooth | <p><b>Wi-Fi 6E</b></p> <p>2x2 Wi-Fi 6E (802.11 a/b/g/n/ac/ax)</p> <p>Supports 2.4/5/6GHz frequency band*</p> <p>Supports Intel® Double Connect Technology</p> <p>Bluetooth v5.2</p> <p>* Wi-Fi 6E 6GHz regulatory may vary between countries.</p>   |
| USB                  | <p><b>Rear USB (Total 10 ports)</b></p> <p>1 x Thunderbolt™ 4 port (1 x USB Type-C®)</p> <p>1 x USB 3.2 Gen 2x2 port (1 x USB Type-C®)</p> <p>8 x USB 3.2 Gen 2 ports (7 x Type-A + 1 x USB Type-C®)</p> <p><b>Front USB (Total 10 ports)</b></p> <p>1 x Thunderbolt™ 4 connector (supports USB Type-C®)</p> <p>1 x USB 3.2 Gen 2x2 connector (supports USB Type-C® with up to 60W PD/QC4+)</p> <p>2 x USB 3.2 Gen 1 headers support additional 4 USB 3.2 Gen 1 ports</p> <p>2 x USB 2.0 headers support additional 4 USB 2.0 ports</p>   |
| Audio                | <p><b>ROG SupremeFX 7.1 Surround Sound High Definition Audio CODEC ALC4082</b></p> <ul style="list-style-type: none"> <li>- Impedance sense for front and rear headphone outputs</li> <li>- Supports: Jack-detection, Multi-streaming, Front Panel Jack-retasking</li> <li>- High quality 120 dB SNR stereo playback output and 113 dB SNR recording input</li> <li>- Supports up to 32-Bit/384 kHz playback</li> </ul> <p><b>Audio Features</b></p> <ul style="list-style-type: none"> <li>- SupremeFX Shielding Technology</li> <li>- ESS® ES9218 QUAD DAC</li> <li>- LED-illuminated audio jacks</li> <li>- Rear optical S/PDIF out port</li> <li>- Premium audio capacitors</li> <li>- Audio cover</li> </ul> |

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# ROG MAXIMUS Z790 EXTREME specifications summary

|                                |  |
|--------------------------------|--|
| <b>Back Panel I/O Ports</b>    | <ul style="list-style-type: none"><li>1 x Thunderbolt™ 4 USB Type-C® port</li><li>1 x USB 3.2 Gen 2x2 port (1 x USB Type-C®)</li><li>8 x USB 3.2 Gen 2 ports (7 x Type-A + 1 x USB Type-C®)</li><li>1 x HDMI® port</li><li>1 x Wi-Fi Module</li><li>1 x Intel® 2.5Gb Ethernet port</li><li>1 x Marvell® AQtion 10Gb Ethernet port</li><li>5 x LED-illuminated audio jacks</li><li>1 x Optical S/PDIF out port</li><li>1 x BIOS FlashBack™ button</li><li>1 x Clear CMOS button</li></ul>   |
| <b>Internal I/O connectors</b> | <p><b>Fan and Cooling related</b></p> <ul style="list-style-type: none"><li>1 x 4-pin CPU Fan header</li><li>1 x 4-pin CPU OPT Fan header</li><li>2 x 4-pin Chassis Fan headers</li><li>2 x 4-pin Radiator Fan headers</li><li>2 x W_PUMP+ headers</li><li>1 x WB_SENSOR header</li><li>1 x 2-pin Water In header</li><li>1 x 2-pin Water Out header</li><li>1 x 3-pin Water Flow header</li></ul> <p><b>Power related</b></p> <ul style="list-style-type: none"><li>1 x 24-pin Main Power connector</li><li>2 x 8-pin +12V Power connectors</li><li>1 x 6-pin PCIe Power connector</li></ul> <p><b>Storage related</b></p> <ul style="list-style-type: none"><li>3 x M.2 slots (Key M)</li><li>1 x DIMM.2 slot supports 2 x M.2 slots (Key M)</li><li>6 x SATA 6Gb/s ports</li></ul> <p><b>USB</b></p> <ul style="list-style-type: none"><li>1 x Thunderbolt™ 4 USB Type-C® port</li><li>1 x USB 3.2 Gen 2x2 connector (supports USB Type-C®)</li><li>2 x USB 3.2 Gen 1 headers support 4 additional USB 3.2 Gen 1 ports</li><li>2 x USB 2.0 headers support 4 additional USB 2.0 ports</li></ul> <p><b>Miscellaneous</b></p> <ul style="list-style-type: none"><li>1 x 6-pin ARGB Gen 2 header to support 2 x ARGB Gen 2 headers</li><li>1 x Addressable Gen 2 header</li><li>1 x Aura RGB header</li><li>2 x BCLK buttons</li><li>1 x BIOS Switch button</li><li>1 x FlexKey button</li><li>1 x Front Panel Audio header (AAFP)</li><li>1 x LN2 Mode jumper</li></ul> |

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## ROG MAXIMUS Z790 EXTREME specifications summary

|                                       |   |
|---------------------------------------|---|
| <p><b>Internal I/O connectors</b></p> | <ul style="list-style-type: none"> <li>1 x OSC sense header</li> <li>12 x ProbelT Measurement Points</li> <li>1 x ReTry button</li> <li>1 x RSVD switch</li> <li>1 x RSVD header</li> <li>1 x Safe Boot button</li> <li>1 x Slow Mode switch</li> <li>1 x Start button</li> <li>1 x V_Latch switch</li> <li>1 x 10-1 pin System Panel header</li> <li>1 x Thermal Sensor header</li> </ul>  |
| <p><b>Special Features</b></p>        | <p><b>Extreme OC Kit</b></p> <ul style="list-style-type: none"> <li>- FlexKey button</li> <li>- LN2 Mode</li> <li>- ProbelT</li> <li>- ReTry button</li> <li>- Safe boot button</li> <li>- Start button</li> <li>- Slow Mode</li> </ul> <p><b>Extreme Engine Digi+</b></p> <ul style="list-style-type: none"> <li>- 10K Black Metallic Capacitors</li> <li>- MicroFine Alloy Choke</li> </ul> <p><b>ASUS Q-Design</b></p> <ul style="list-style-type: none"> <li>- M.2 Q-Latch</li> <li>- PCIe Slot Q-Release</li> <li>- Q-Code</li> <li>- Q-Connector</li> <li>- Q-DIMM</li> <li>- Q-LED (CPU [red], DRAM [yellow], VGA [white], Boot Device [yellow green])</li> <li>- Q-Slot</li> </ul> <p><b>ASUS Thermal Solution</b></p> <ul style="list-style-type: none"> <li>- M.2 heatsink backplate</li> <li>- M.2 heatsink</li> <li>- Steel backplate</li> <li>- VRM heatsink design</li> </ul> <p><b>ASUS EZ DIY</b></p> <ul style="list-style-type: none"> <li>- BIOS FlashBack™ button</li> <li>- Clear CMOS button</li> <li>- CPU Socket lever protector</li> <li>- ProCool II</li> <li>- Pre-mounted I/O shield</li> <li>- SafeSlot</li> <li>- SafeDIMM</li> </ul> |

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# ROG MAXIMUS Z790 EXTREME specifications summary

|                          |   |
|--------------------------|---|
| <b>Special Features</b>  | <p><b>Aura Sync</b></p> <ul style="list-style-type: none"><li>- ROG Aura Sync backplate</li><li>- Aura RGB header</li><li>- Addressable Gen 2 headers</li></ul> <p><b>Dual BIOS</b></p> <p><b>Color OLED 2"</b></p> <p><b>Front Panel USB 3.2 Gen 2x2 with Quick Charge 4+ Support</b></p> <ul style="list-style-type: none"><li>- Support: up to 60W charging*</li><li>- Output: 5/9/15/20V max. 3A, PPS:3.3x–21V max. 3A</li><li>- Compatible with QC 4.0/3.0/2.0, PD3.0 and PPS</li></ul> <p>* To support 60W, please install the power cable to the 6-pin PCIe Graphics Card connector or else only 27W can be supported.</p>   |
| <b>Software Features</b> | <p><b>ROG Exclusive Software</b></p> <ul style="list-style-type: none"><li>- GameFirst VI</li><li>- ROG CPU-Z</li><li>- ROG True Voltician</li><li>- Sonic Studio III + Sonic Studio Virtual Mixer + Sonic Suite Companion</li><li>- Sonic Radar III</li><li>- DTS® Sound Unbound</li><li>- BullGuard Internet Security (1-year full version)</li></ul> <p><b>ASUS Exclusive Software</b></p> <p>Armoury Crate</p> <ul style="list-style-type: none"><li>- AIDA64 Extreme (1 year full version)</li><li>- Aura Creator</li><li>- Aura Sync</li><li>- Fan Xpert 4 (with AI Cooling II)</li><li>- Power Saving</li><li>- AniMe Matrix™</li><li>- Two-Way AI Noise Cancellation</li><li>- OLED Display</li></ul> <p>AI Suite 3</p> <ul style="list-style-type: none"><li>- Easy Optimization with AI Overclocking</li><li>- TPU</li><li>- DIGI+ Power Control</li><li>- Turbo app</li><li>- PC Cleaner</li></ul> <p>MyAsus</p> <p>WinRAR</p> |

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# ROG MAXIMUS Z790 EXTREME specifications summary

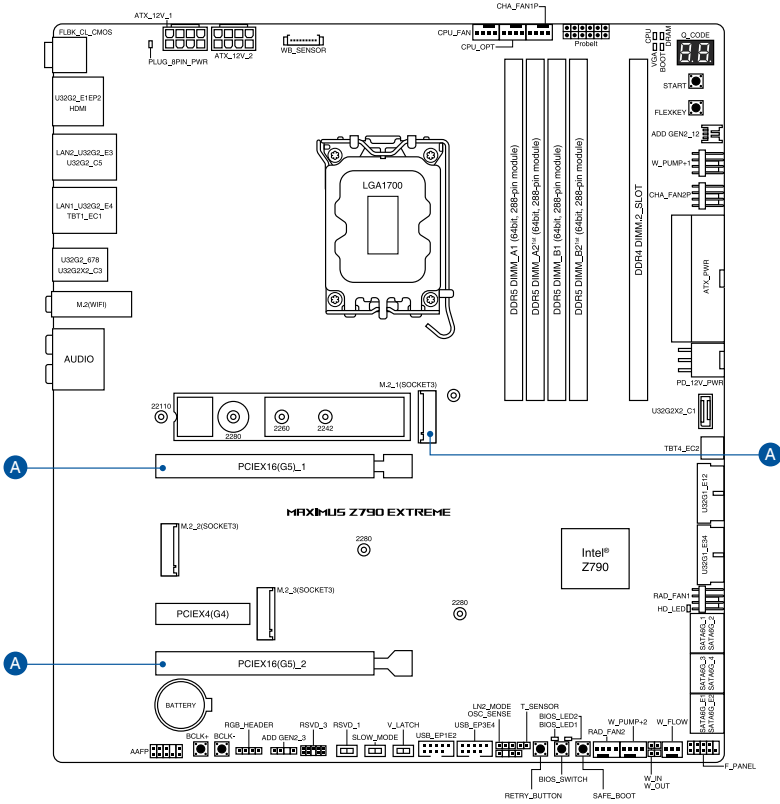
|                          |   |
|--------------------------|---|
| <b>Software Features</b> | <b>UEFI BIOS</b>                        |
|                          | AI Overclocking Guide                   |
|                          | ASUS EZ DIY                             |
|                          | - ASUS CrashFree BIOS 3                 |
|                          | - ASUS EZ Flash 3                       |
|                          | - ASUS UEFI BIOS EZ Mode                |
|                          | MemTest86                               |
| <b>BIOS</b>              | 2 x 256 Mb Flash ROM, UEFI AMI BIOS     |
| <b>Manageability</b>     | WOL by PME, PXE                         |
| <b>Operating System</b>  | Windows® 11                             |
|                          | Windows® 10 64-bit                      |
| <b>Form Factor</b>       | E-ATX Form Factor                       |
|                          | 12 inch x 10.9 inch (30.5 cm x 27.7 cm) |



- Specifications are subject to change without notice. Please refer to the ASUS website for the latest specifications.
- MyASUS offers a variety of support features such as helping to troubleshoot issues, optimizing product performance, integrating ASUS software, and recovery drive creation. Please scan the QR Code for installation guide and FAQ.



# Connectors with shared bandwidth



| Configuration          | 1   | 2  | 3   |
|------------------------|-----|----|-----|
| PCIEX16(G5)_1          | x16 | x8 | x8  |
| <b>A</b> PCIEX16(G5)_2 | -   | x8 | N/A |
| M.2_1 (CPU attached)   | -   | -  | x4  |



- M.2\_1 shares bandwidth with PCIEX16(G5)\_2. When M.2\_1 is enabled, PCIEX16(G5)\_2 will be disabled.
- When installing a PCIe Gen 5.0 M.2 SSD, ensure to install it to the M.2\_1 slot.

## Package contents

Check your motherboard package for the following items.

|                          |  |
|--------------------------|--|
| Motherboard              | 1 x ROG MAXIMUS Z790 EXTREME motherboard   |
| Cables                   | 1 x 1-to-3 ARGB splitter cable<br>1 x 1-to-2 ARGB splitter cable<br>2 x 1-to-4 fan splitter cables<br>3 x ROG weave SATA 6G cables<br>1 x 3-in-1 Thermistor cables pack  |
| ROG Fan Controller       | 1 x ROG Fan Controller<br>1 x Fan EXT PWR cable<br>1 x ARGB input cable<br>1 x USB input cable<br>1 x ROG Fan Controller velcro tape<br>1 x Fan Controller manual  |
| ROG DIMM.2 with Heatsink | 1 x ROG DIMM.2 with heatsink<br>1 x M.2 pad for ROG DIMM.2<br>2 x M.2 screw package for ROG DIMM.2   |
| ROG True Voltician       | 1 x ROG True Voltician<br>4 x cables for ROG True Voltician  |
| Additional Cooling Kit   | 1 x Thermal pad for M.2<br>1 x DDR5 fan holder   |
| Miscellaneous            | 1 x ASUS Wi-Fi moving antennas<br>1 x Q-connector<br>1 x ROG key chain<br>1 x ROG logo plate sticker<br>1 x ROG multi-bit screwdriver<br>1 x ROG stickers<br>1 x ROG VIP card<br>1 x Screw package for M.2 SSD |
| Installation Media       | 1 x USB drive with utilities and drivers   |
| Documentation            | 1 x User guide   |



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

# 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.
  - 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.
- 

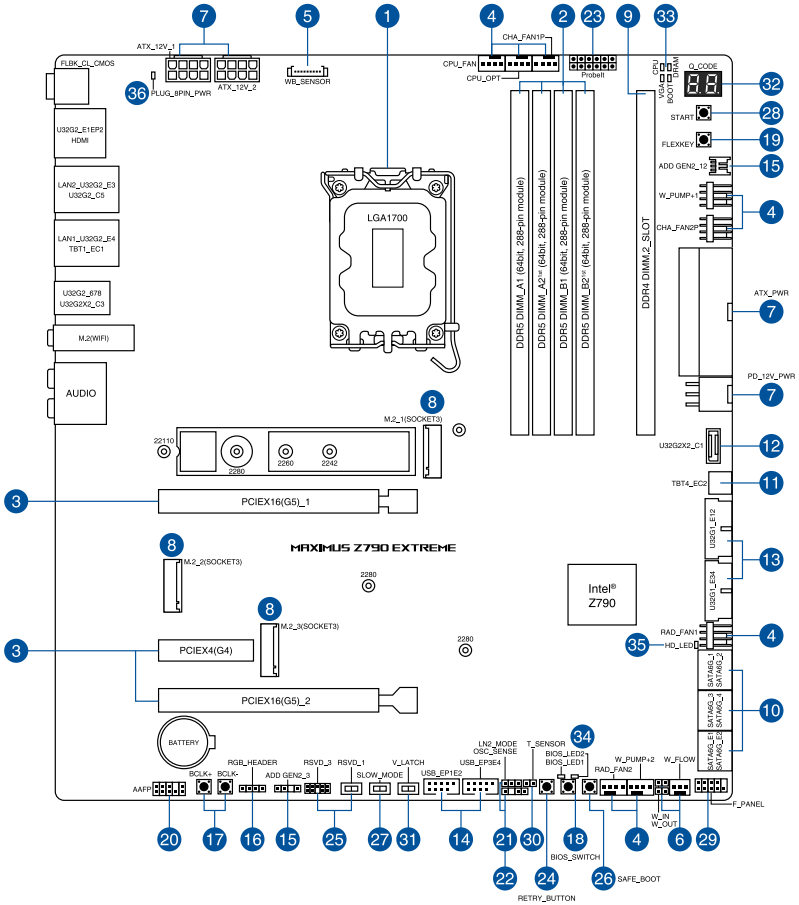


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The pin definitions in this chapter are for reference only. The pin names depend on the location of the header/jumper/connector.

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# 1.2 Motherboard layout

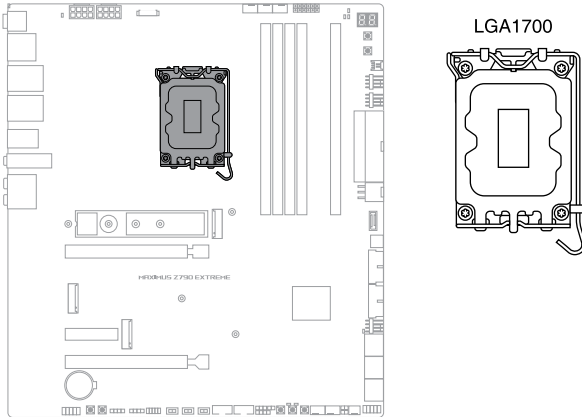




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| 34. BIOS LED                                      | 1+31 |
| 35. Storage Device Activity LED                   | 1-32 |
| 36. 8-pin Power Plug LED                          | 1-32 |

## 1. CPU socket

The motherboard comes with a LGA1700 socket designed for 13<sup>th</sup> Gen Intel® Core™ Processors & 12<sup>th</sup> Gen Intel® Core™, Pentium® Gold and Celeron® Processors.



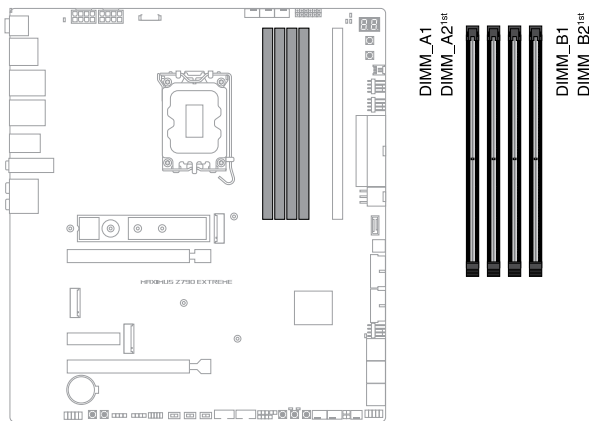
- Ensure that you install the correct CPU designed for LGA1700 socket only. DO NOT install a CPU designed for other sockets on the LGA1700 socket.
- The CPU fits in only one correct orientation. DO NOT force the CPU into the socket to prevent bending the connectors on the socket and damaging the CPU.
- 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 LGA1700 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

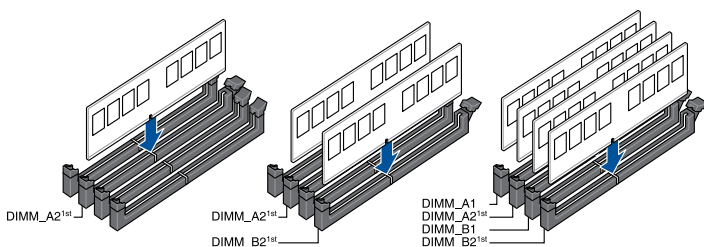
The motherboard comes with Dual Inline Memory Modules (DIMM) slots designed for DDR5 (Double Data Rate 5) memory modules.



A DDR5 memory module is notched differently from a DDR, DDR2, DDR3, or DDR4 memory module. **DO NOT** install a DDR, DDR2, DDR3, or DDR4 memory module to the DDR5 slot.



### Recommended memory configurations



## Memory configurations

You may install 8GB, 16GB, and 32GB unbuffered and non-ECC DDR5 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.

---

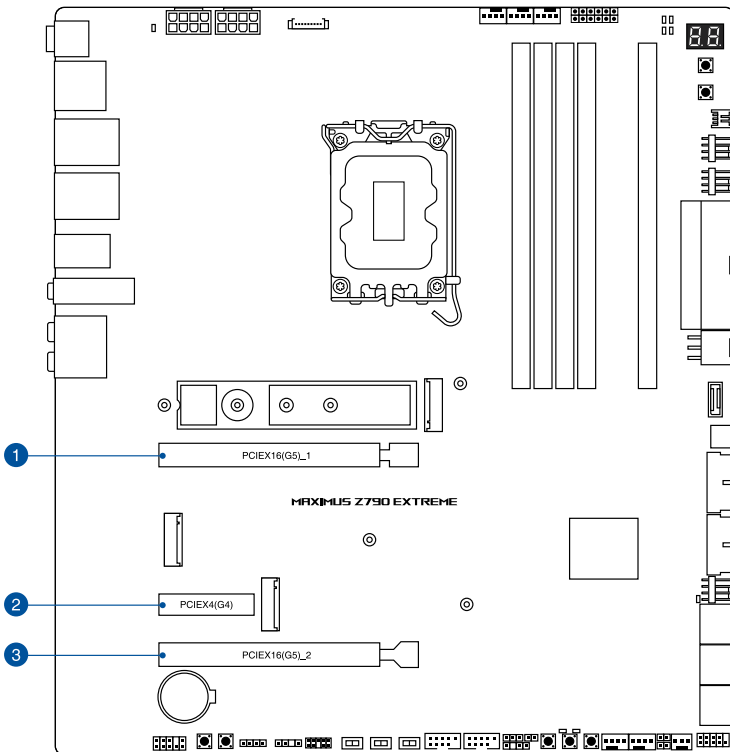


- The default memory operation frequency is dependent on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module. Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.
  - For system 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.



Please refer to the following table for the recommended VGA configuration.

#### Recommended VGA configuration

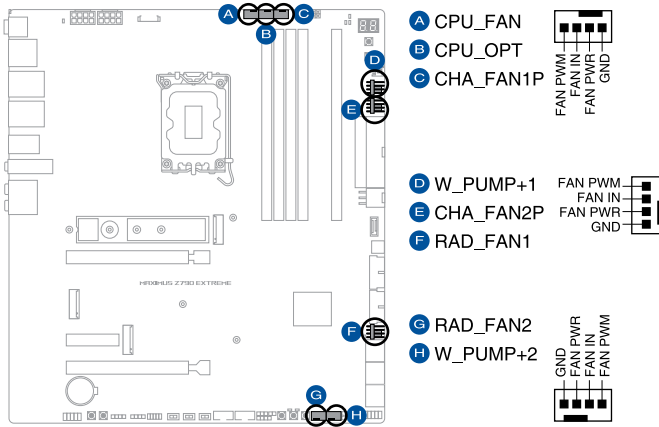
| Slot Description | Single VGA | Dual VGA |
|------------------|------------|----------|
| 1 PCIEX16(G5)_1  | x16        | x8       |
| 3 PCIEX16(G5)_2  | -          | x8       |



- Connect a chassis fan to the chassis fan connectors when using multiple graphics cards for better thermal environment.
- M.2\_1 shares bandwidth with PCIEX16(G5)\_2. When M.2\_1 is enabled, PCIEX16(G5)\_2 will be disabled.

#### 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.

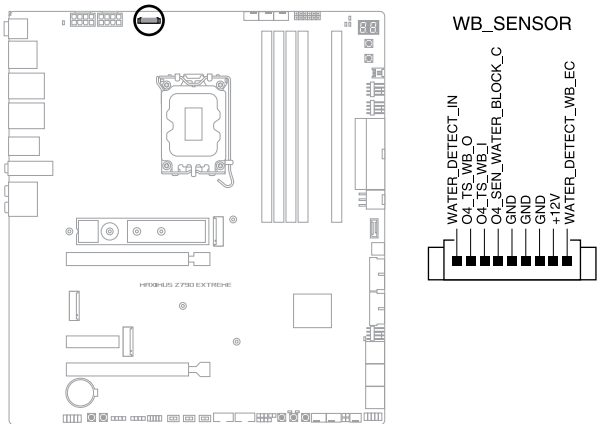


For water cooling kits, connect the pump connector to the **W\_PUMP+1/2** header.

| Header    | Max. Current | Max. Power | Default Speed    | Shared Control |
|-----------|--------------|------------|------------------|----------------|
| CPU_FAN   | 1A           | 12W        | Q-Fan Controlled | A              |
| CPU_OPT   | 1A           | 12W        | Q-Fan Controlled | A              |
| RAD_FAN1  | 1A           | 12W        | Q-Fan Controlled | -              |
| RAD_FAN2  | 1A           | 12W        | Q-Fan Controlled | -              |
| CHA_FAN1P | 1A           | 12W        | Q-Fan Controlled | -              |
| CHA_FAN2P | 1A           | 12W        | Q-Fan Controlled | -              |
| W_PUMP+1  | 3A           | 36W        | Full Speed       | -              |
| W_PUMP+2  | 3A           | 36W        | Full Speed       | -              |

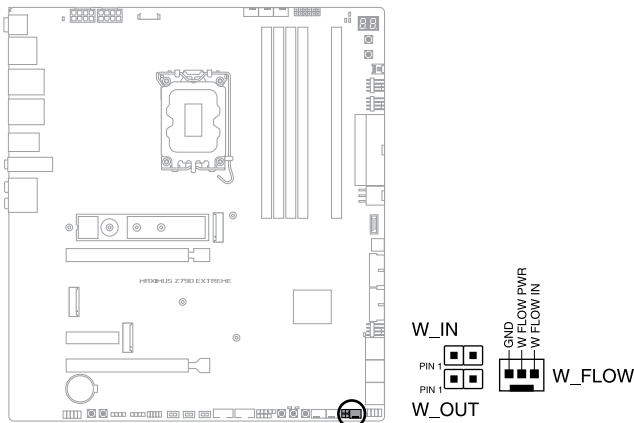
**5. Water Block header**

The Water Block header allows you to connect sensors to monitor the temperature, flow rate, and water leak signals of your third party monoblocks. You can manually adjust the fans and water pump to optimize the thermal efficiency of your third party monoblocks.



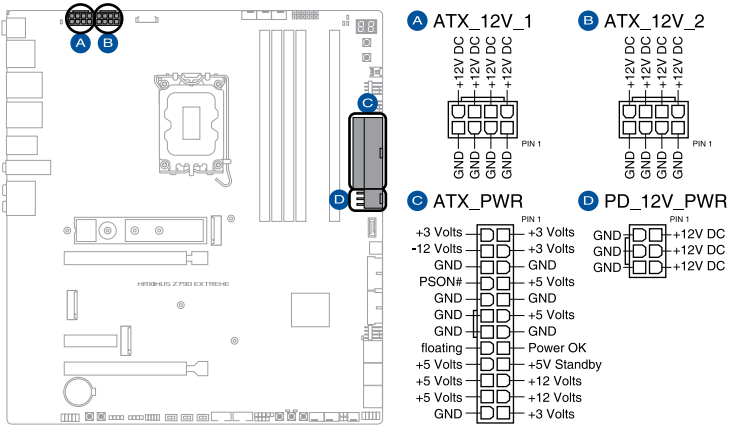
**6. Liquid Cooling System headers**

The Liquid Cooling System headers allow you to connect sensors to monitor the temperature and flow rate of your liquid cooling system. You can manually adjust the fans and water pump to optimize the thermal efficiency of your liquid cooling system.



## 7. 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.



Ensure to connect the 8-pin power plug, or connect both 8-pin power plugs.



- 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.

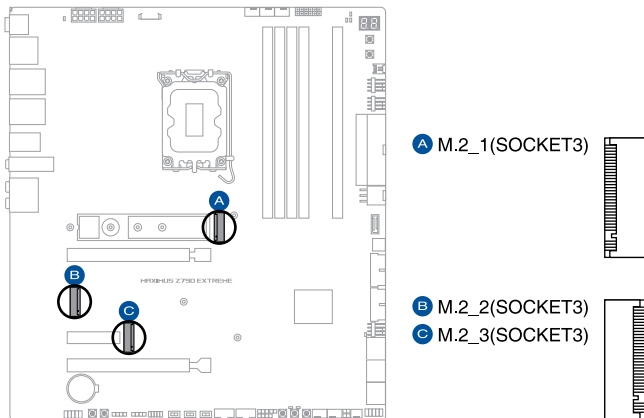


The **PD\_12V\_PWR** connector provides additional power for your PCIe X16 slots. To support 60W, please install the power cable to the 6-pin PCIe Graphics Card connector (**PD\_12V\_PWR**) else only 27W will be supported.



## 8. M.2 slot

The M.2 slot allows you to install M.2 devices such as M.2 SSD modules.



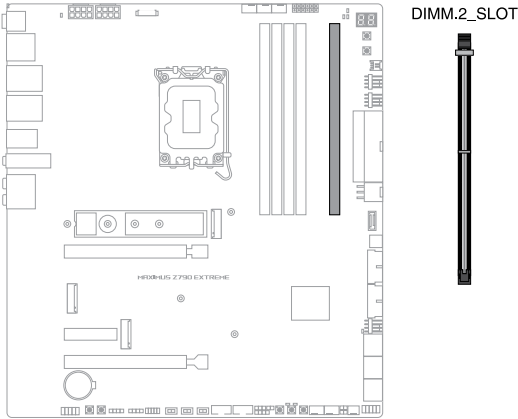
- Intel® 13<sup>th</sup> & 12<sup>th</sup> Gen Processors:**
  - M.2\_1 supports PCIe 5.0 x4 mode M Key design and type 2242 / 2260 / 2280 / 22110 storage devices.
  - M.2\_2 supports PCIe 4.0 x4 mode M Key design and type 2280 storage devices.
- Intel® Z790 Chipset:**
  - M.2\_3 supports PCIe 4.0 x4 and SATA mode M Key design and type 2280 storage devices.
- M.2\_1 shares bandwidth with PCIEX16(G5)\_2. When M.2\_1 is enabled, PCIEX16(G5)\_2 will be disabled.
  - The M.2 slots for M.2\_2 and M.2\_3 are inverted, please flip the M.2 module upside down when installing an M.2 to these M.2 slots.
  - Intel® Rapid Storage Technology supports PCIe RAID 0/1/5/10, SATA RAID 0/1/5/10.



The M.2 SSD module is purchased separately.

## 9. DIMM.2 slot

The DIMM.2 slot allows you to install a DIMM.2 card to support additional M.2 SSD modules.



- Before you install or remove the DIMM.2 card, 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 or DIMM.2 card.
- The DIMM.2 card is notched to fit in only one orientation. Ensure that the notch on your card is aligned correctly with the DIMM.2 slot before inserting the card.



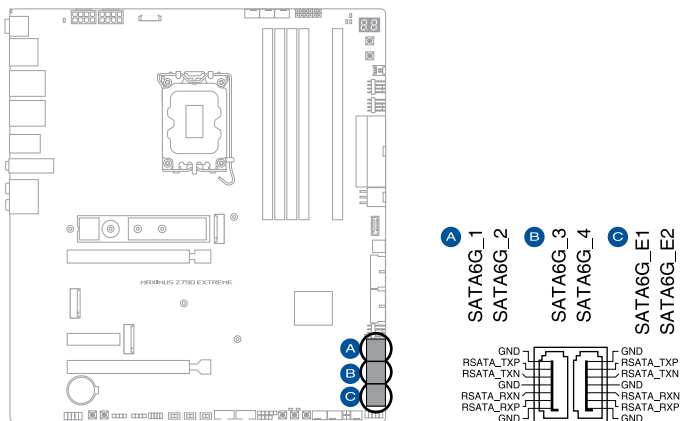
- DIMM.2 module supports PCIe 4.0 x4 M Key design and type 2242 / 2260 / 2280 / 22110 PCIe storage devices.
- These sockets support IRST (Intel® Rapid Storage Technology).



The M.2 SSD module is purchased separately.

## 10. SATA 6Gb/s port

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



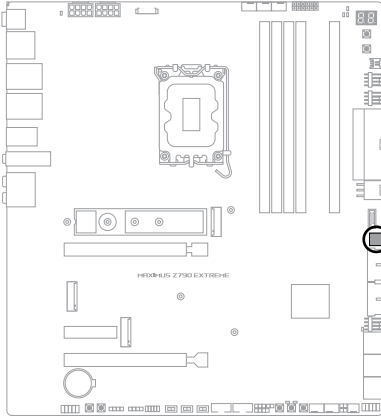
- If you installed SATA storage devices to the **SATA6G\_1-4** ports, you can create a RAID 0, 1, 5, and 10 configuration with the Intel® Rapid Storage Technology through the onboard Intel® Z790 chipset.
- RAID configuration and boot drives are not supported on the **SATA6G\_E1-2** ports.



Before creating a RAID set, refer to the **RAID Configuration Guide**. You can download the **RAID Configuration Guide** from the ASUS website.

### 11. Thunderbolt™ 4 port

The Thunderbolt™ 4 port allows you to connect a Thunderbolt™ 4 Type-C® cable and provides data transfer speeds of up to 40 Gb/s.

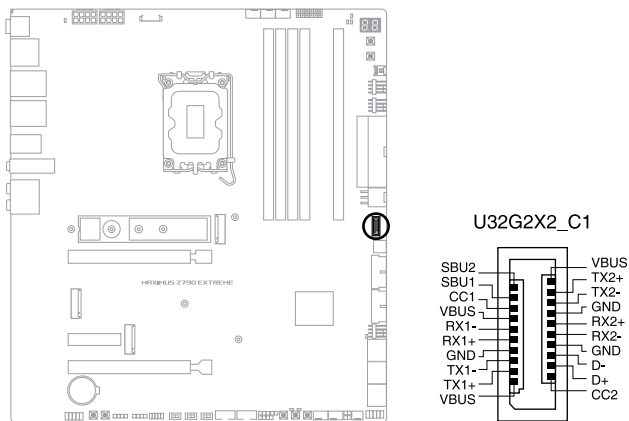


TBT4\_EC2



## 12. USB 3.2 Gen 2x2 Type-C® Front Panel connector

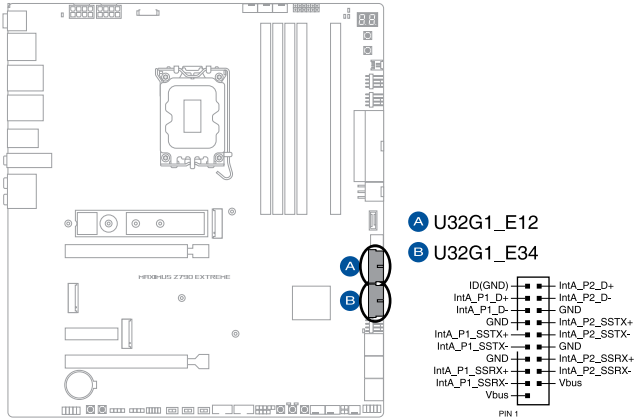
The USB 3.2 Gen 2x2 Type-C® connector allows you to connect a USB 3.2 Gen 2x2 Type-C® module for additional USB 3.2 Gen 2x2 ports on the front panel. The USB 3.2 Gen 2x2 Type-C® connector provides data transfer speeds of up to 20 Gb/s and PD 3.0 / QC 4+ support for up to DC 5V/3A 60W fast charging technology.



- The USB 3.2 Gen 2x2 Type-C® module is purchased separately.
- For PD 3.0 / QC 4+ support, ensure to connect the 6-pin **PD\_12V\_PWR** connector.
- PD 3.0 up to DC 5V/3A 60W fast charging technology is only supported on CC Logic Devices.
- In S5 (Soft Off State) PD 3.0 and QC 4+ only provide power delivery of up to 10W.

### 13. USB 3.2 Gen 1 header

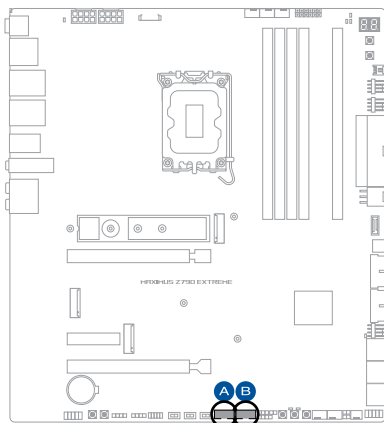
The USB 3.2 Gen 1 header allows you to connect a USB 3.2 Gen 1 module for additional USB 3.2 Gen 1 ports. The USB 3.2 Gen 1 header provides data transfer speeds of up to 5 Gb/s.



The USB 3.2 Gen 1 module is purchased separately.

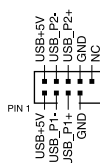
#### 14. USB 2.0 header

The USB 2.0 header allows you to connect a USB module for additional USB 2.0 ports. The USB 2.0 header provides data transfer speeds of up to 480 Mb/s connection speed.



A USB\_EP1E2

B USB\_EP3E4



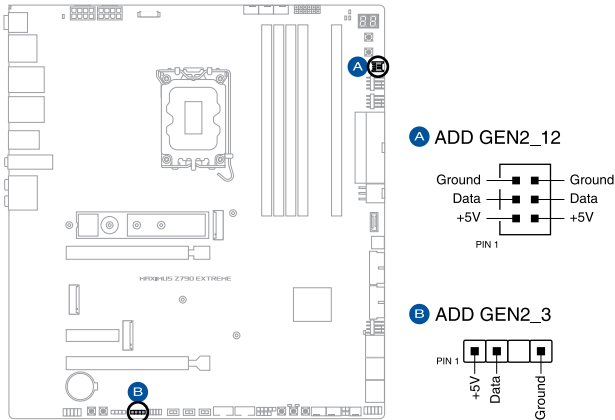
**DO NOT** connect a 1394 cable to the USB connectors. Doing so will damage the motherboard!



The USB 2.0 module is purchased separately.

## 15. Addressable Gen2 header

The Addressable Gen2 header allows you to connect individually addressable RGB WS2812B LED strips or WS2812B based LED strips. The 6-pin Addressable Gen2 header allows you to connect a 1-to-2 ARGB splitter cable allowing you to connect up to two (2) LED strips.



The Addressable Gen2 header supports WS2812B addressable RGB LED strips (5V/ Data/Ground), with a maximum power rating of 3A (5V), and the addressable headers 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.

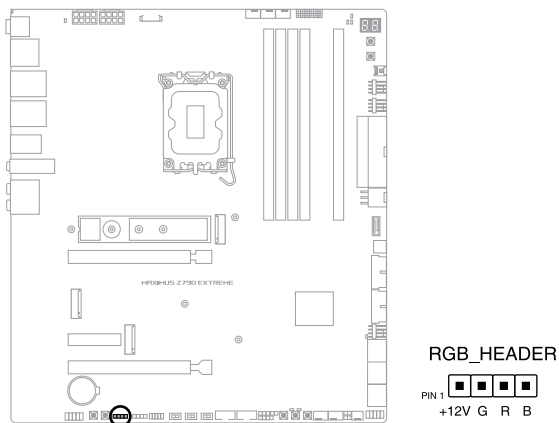


- Actual lighting and color will vary with LED strip.
- If your LED strip does not light up, check if the addressable RGB LED strip is connected in the correct orientation, and the 5V connector is aligned with the 5V header on the motherboard.
- The addressable RGB LED strip will only light up when the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



## 16. Aura RGB header

The Aura RGB header allows you to connect RGB LED strips.



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



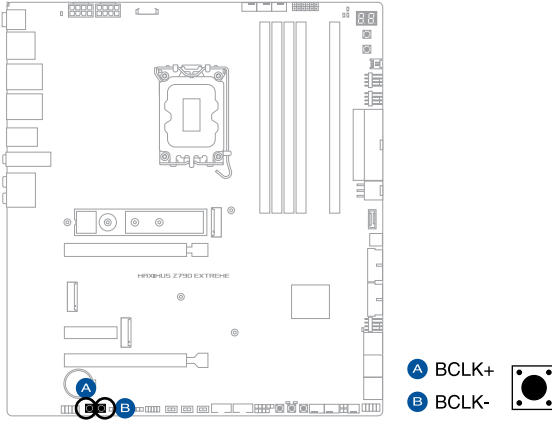
Before you install or remove any component, ensure that the power supply is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard, peripherals, or components.



- 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.

## 17. BLCK buttons

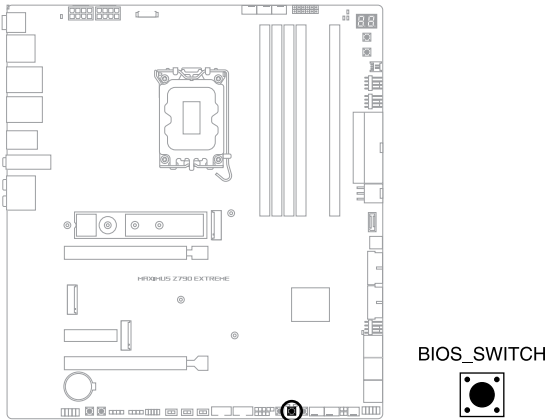
The BLCK buttons allow you adjust the BCLK frequency.



To use the BCLK buttons, Runtime BCLK OC needs to be enabled in the BIOS first.

## 18. BIOS Switch button

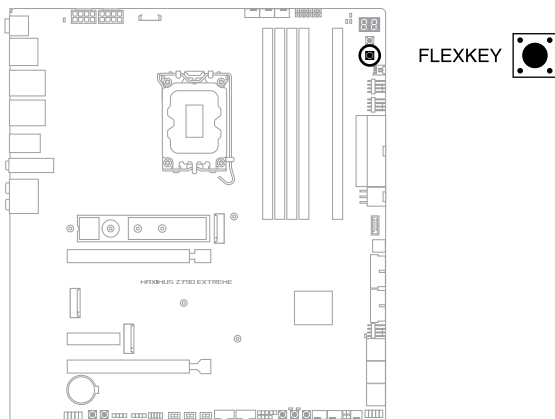
This motherboard comes with two BIOS chips. Press the BIOS Switch button to switch BIOS and load different BIOS settings.



The nearby BIOS\_LEDs indicate which BIOS is currently selected.

## 19. FlexKey button (Reset)

Press the FlexKey button to reboot the system. You may also configure the button and assign a quick access feature such as activating Safe Boot or turning Aura lighting on or off to the button.



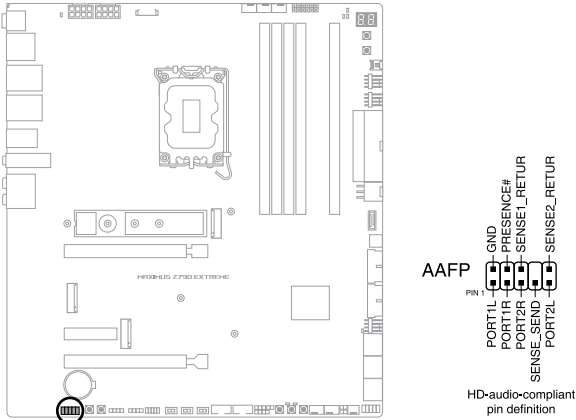
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This button set to **[Reset]** by default. You can assign a different function to this button in the BIOS settings.

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## 20. Front Panel Audio header

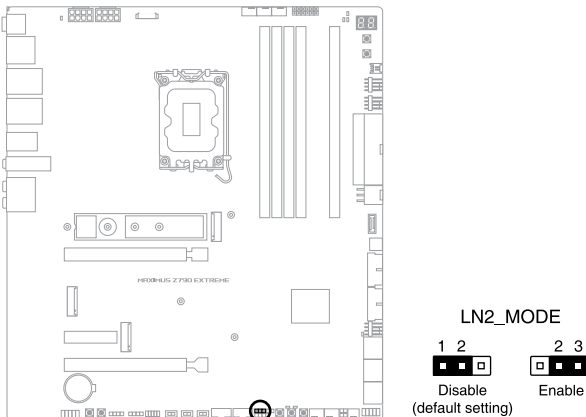
The Front Panel Audio header is for a chassis-mounted front panel audio I/O module that supports HD Audio. Connect one end of the front panel audio I/O module cable to this header.



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.

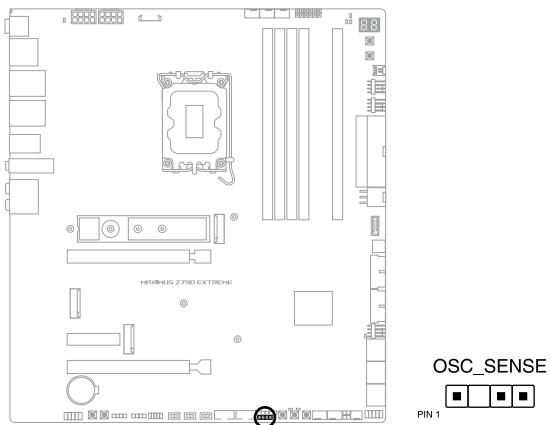
## 21. LN2 Mode jumper

Set to pins 2-3 to optimize the motherboard to remedy the cold-boot bug during POST and help the system boot successfully.



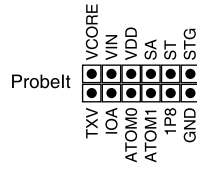
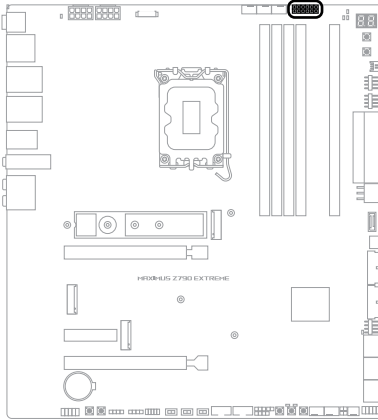
## 22. OSC Sense header

The OSC Sense header is reserved for the ROG True Voltician card and allows you to monitor the fluctuations of the CPU voltage.



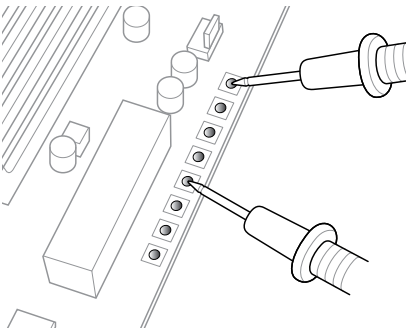
## 23. Probel Measurement Points

The ROG Probel allows you to detect your system's current voltage and OC settings using a multimeter. You can also measure the Probel points during overclocking.



### Using Probel

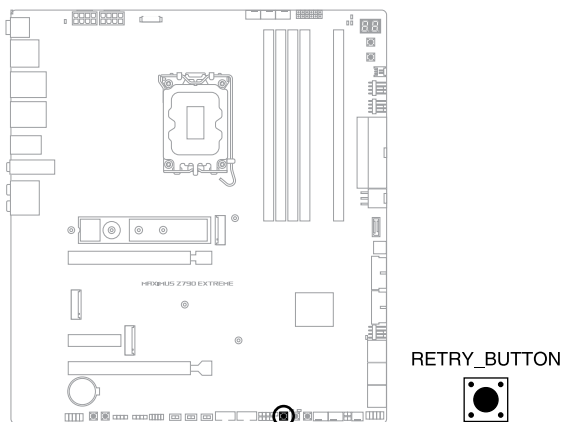
Connect one of the probe onto the **GND** Probel point, then connect the other probe onto another Probel point to measure the corresponding voltage information.



The illustration above is for reference only, the actual motherboard layout and measure points may differ by model.

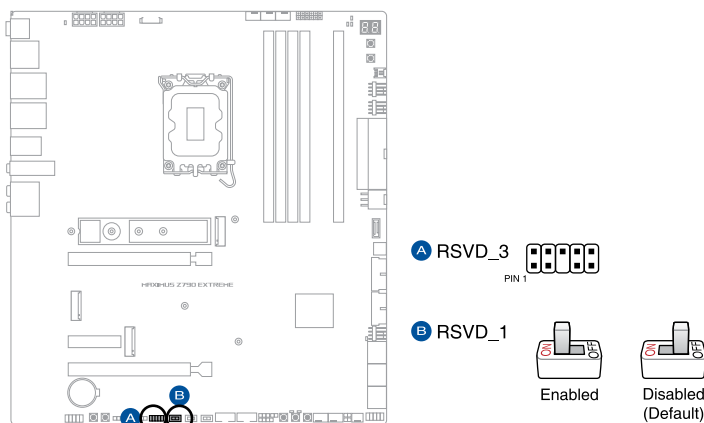
## 24. ReTry button

The ReTry button is specially designed for overclockers and is most useful during the booting process where the Reset button is rendered useless. Press this button to force the system to reboot while retaining the same settings to be retried in quick succession to achieve a successful POST.



## 25. RSVD switch and header

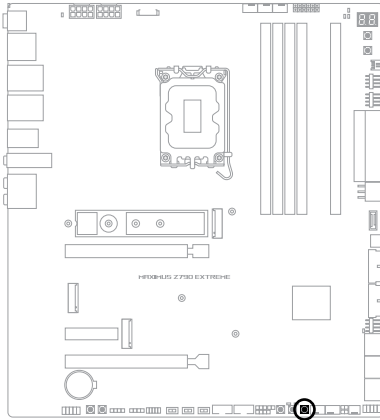
The RSVD switch and header is reserved for ASUS-authorized technicians only.



Please ensure the RSVD switch is set to **Disabled**. Setting this switch to **Enabled** may result in damages to your system.

## 26. Safe Boot button

The Safe Boot button temporarily applies safe settings to the BIOS while retaining the overclocked settings, allowing you to modify the settings causing a boot failure. Press this button at anytime to force the system to reboot into the BIOS safe mode.

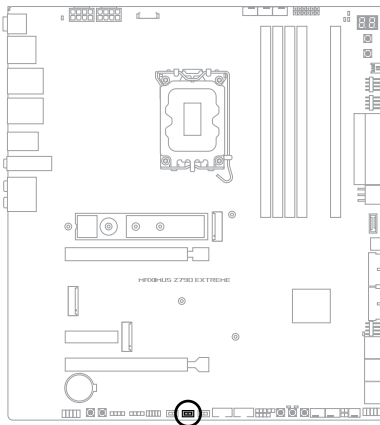


SAFE\_BOOT



## 27. Slow Mode switch

The system may crash due to the CPU being unstable when using extreme overclocking settings. Enable the Slow Mode switch during LN2 benching to decrease the processor frequency and stabilize the system, allowing you to keep track of the overclocking data.



SLOW\_MODE



Enabled

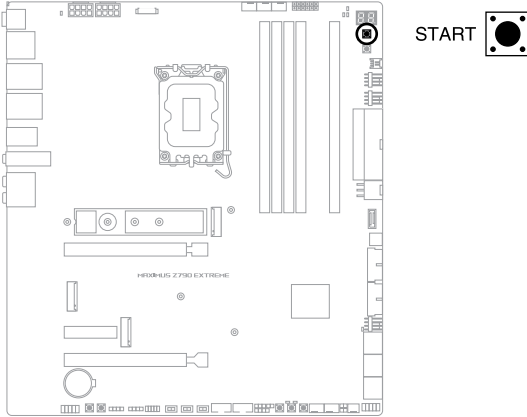


Disabled  
(Default)



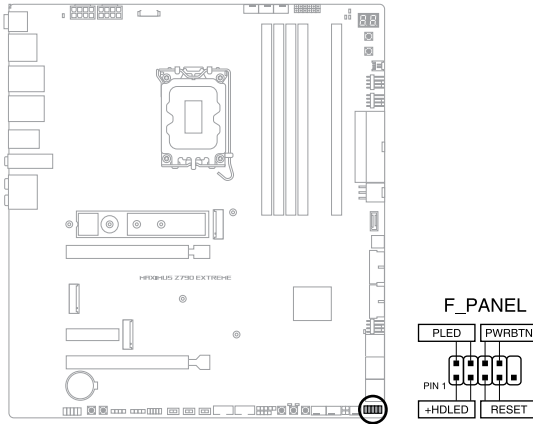
## 28. Start button

Press the Start button to power up the system, or put the system into sleep or soft-off mode (depending on the operating system settings).



## 29. System Panel header

The System Panel header supports several chassis-mounted functions.



- **System Power LED header (PLED)**

The 2-pin header allows you to connect the System Power LED. The System Power LED lights up when the system is connected to a power source, or when you turn on the system power, and blinks when the system is in sleep mode.

- **Storage Device Activity LED header (HDLED)**

The 2-pin header allows you to connect the Storage Device Activity LED. The Storage Device Activity LED lights up or blinks when data is read from or written to the storage device or storage device add-on card.

- **Power Button/Soft-off Button header (PWRBTN)**

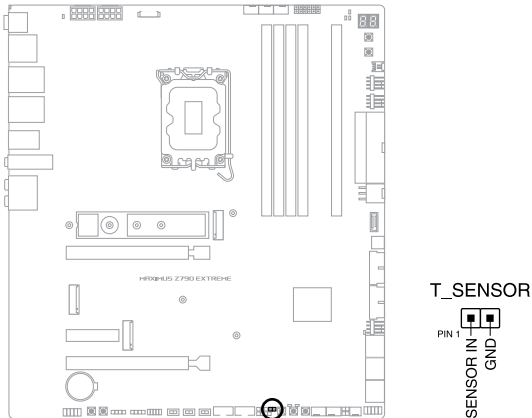
The 3-1 pin header allows you to connect the system power button. Press the power button to power up the system, or put the system into sleep or soft-off mode (depending on the operating system settings).

- **Reset button header (RESET)**

The 2-pin header allows you to connect the chassis-mounted reset button. Press the reset button to reboot the system.

### 30. Thermal Sensor header

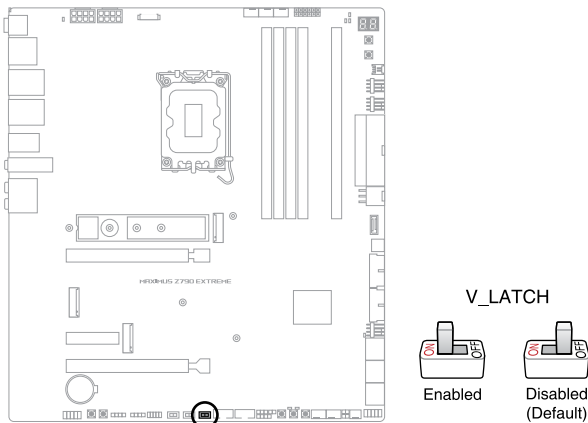
The Thermal Sensor header allows you to connect a sensor to monitor the temperature of the devices and the critical components inside the motherboard. Connect the thermal sensor and place it on the device or the motherboard's component to detect its temperature.



The thermal sensor is purchased separately.

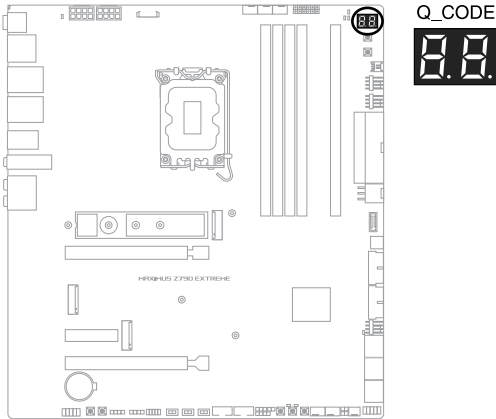
### 31. V\_Latch switch

The V\_Latch switch is used for enthusiasts interested in viewing the onboard voltage regulation. When V\_Latch switch is set to enabled, it will record both the True highest and True lowest voltages of the Vcore.



### 32. Q-Code LED

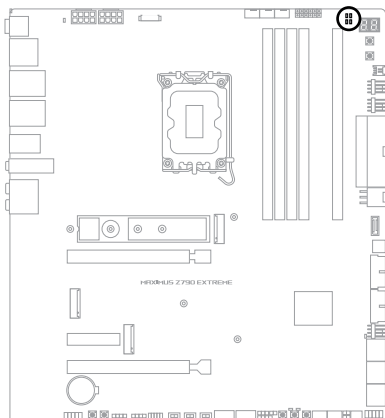
The Q-Code LED design provides you with a 2-digit error code that displays the system status.



- The Q-Code LEDs provide the most probable cause of an error code as a starting point for troubleshooting. The actual cause may vary from case to case.
- Please refer to the Q-Code table in the **Appendix** section for more details.

### 33. Q-LEDs

The Q-LEDs check key components (CPU, DRAM, VGA, and booting devices) during the motherboard booting process. If an error is found, the critical component's LED stays lit up until the problem is solved.



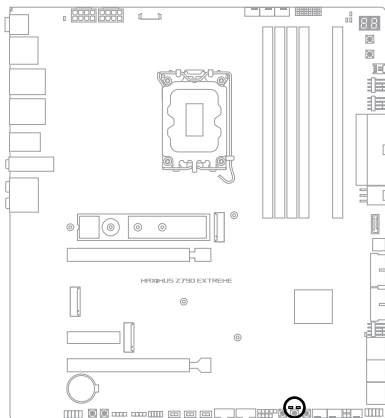
- CPU (RED) □ □ DRAM (YELLOW)
- VGA (WHITE) □ □ BOOT (YELLOW GREEN)



The Q-LEDs provide the most probable cause of an error code as a starting point for troubleshooting. The actual cause may vary from case to case.

### 34. BIOS LED

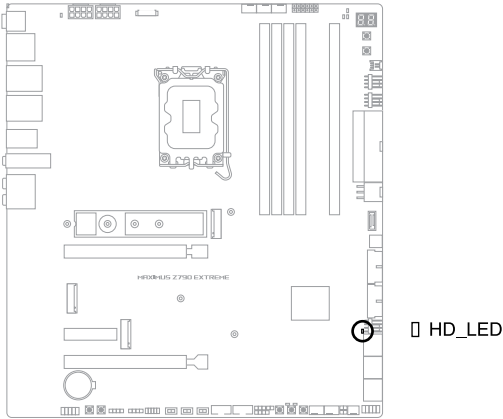
The BIOS LEDs indicate which BIOS chip is currently in use.



- BIOS\_LED1 □ □ BIOS\_LED2

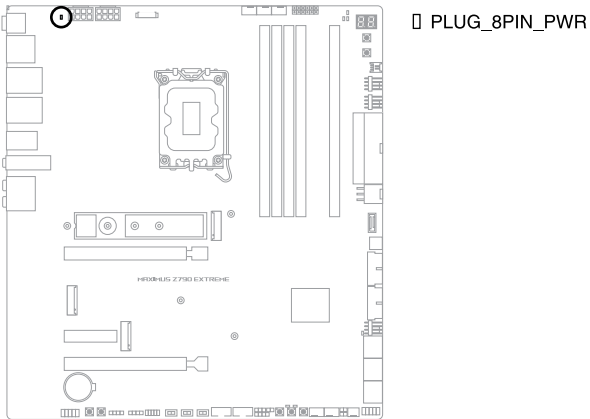
### 35. Storage Device Activity LED

The Storage Device Activity LED lights up or blinks when data is read from or written to the storage device or storage device add-on card.



### 36. 8-pin Power Plug LED

The 8-pin Power Plug LED lights up to indicate that the 8-pin power plug is not connected.



# Basic Installation

# 2

## 2.1 Building your PC system

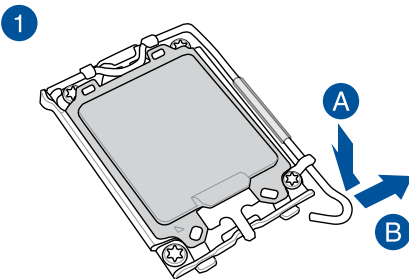
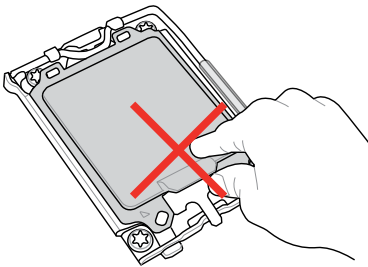


The diagrams in this section are for reference only. The motherboard layout may vary with models, but the installation steps are the same for all models.

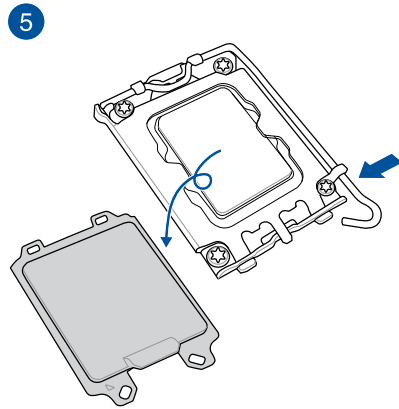
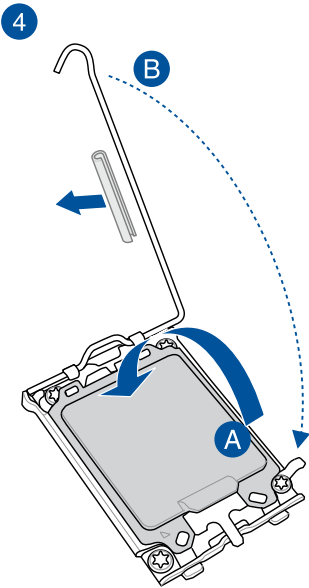
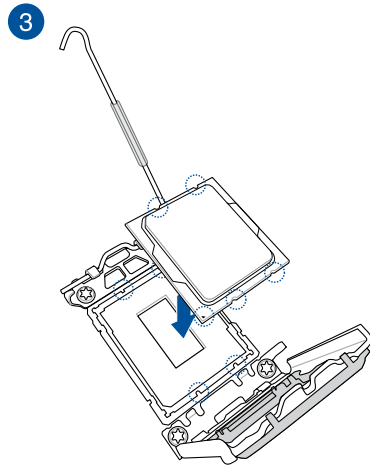
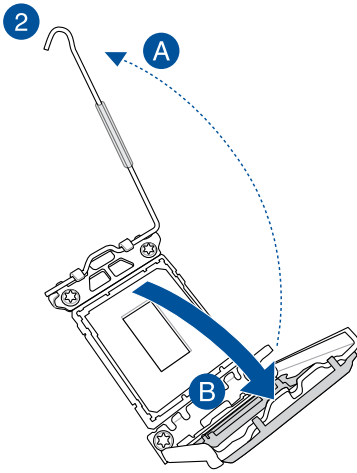
### 2.1.1 CPU installation



- Ensure that you install the correct CPU designed for LGA1700 socket only. DO NOT install a CPU designed for LGA1155, LGA1156, LGA1151, and LGA1200 sockets on the LGA1700 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.



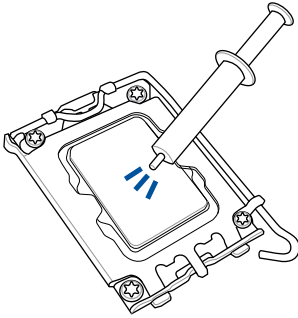
Take caution when lifting the load lever, ensure to hold onto the load lever when releasing the load lever. Letting go of the load lever immediately after releasing it may cause the load lever to spring back and cause damage to your motherboard.



Ensure to remove the CPU Socket lever protector on the lever latch before locking the lever latch under the retention tab. Failure to do so may cause damages to your system when installing the cooling system.



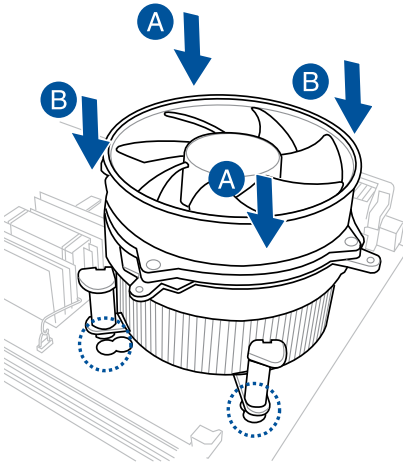
## 2.1.2 Cooling system installation



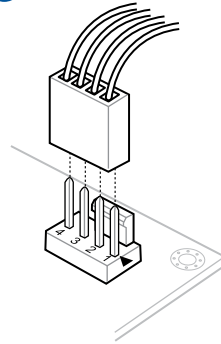
- Apply Thermal Interface Material to the CPU cooling system and CPU before you install the cooling system, if necessary.
- Ensure to remove the CPU Socket lever protector on the lever latch before installing the cooling system, failure to do so may cause damages to your system.

### To install a CPU heatsink and fan assembly

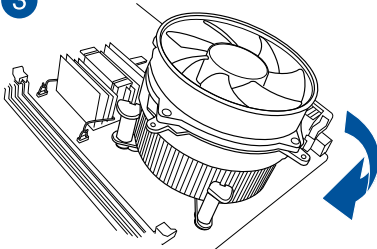
1



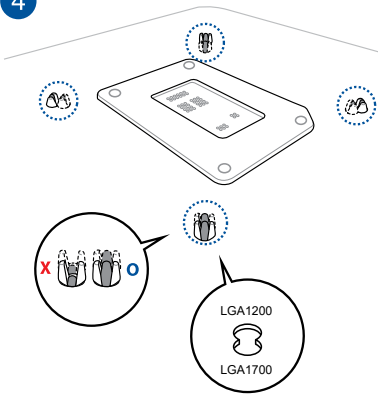
2



3



4



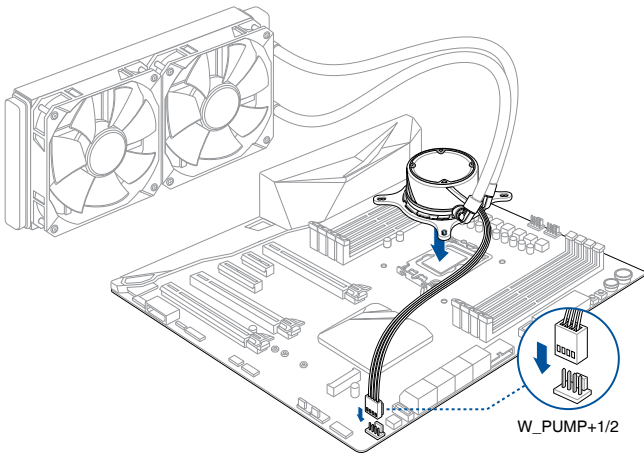
- 
- We recommend using a LGA1700 compatible cooling system on an Intel® 700 series motherboard.
  - Additional holes for LGA1200 compatible cooling systems are also available on ASUS' Intel® 700 series motherboards, however, we still strongly advise consulting with your cooling system vendor or manufacturer on the compatibility and functionality of the cooling system.
  - Push-pin type LGA1200 compatible cooling systems cannot be installed to this motherboard.
-

## To install an AIO cooler

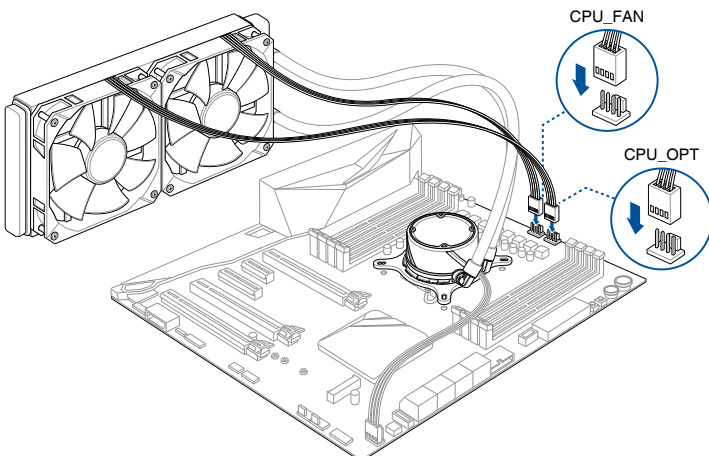


- We recommend using a LGA1700 compatible cooling system when installing a cooling system to an Intel® 700 series motherboard.
- Additional holes for LGA1200 compatible cooling systems are also available on ASUS' Intel® 700 series motherboards, however, we still strongly advise consulting with your cooling system vendor or manufacturer on the compatibility and functionality of the cooling system.
- If you wish to install an AIO cooler, we recommend installing the AIO cooler after installing the motherboard into the chassis.

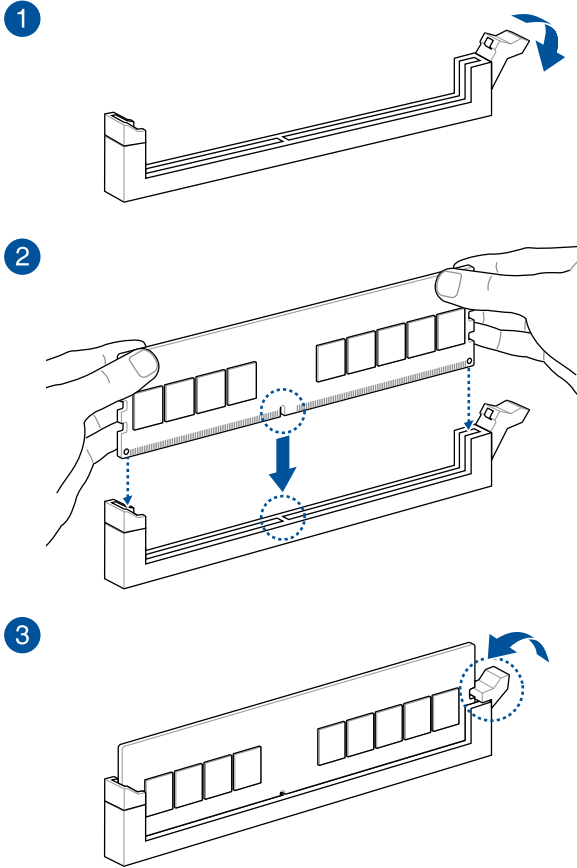
1



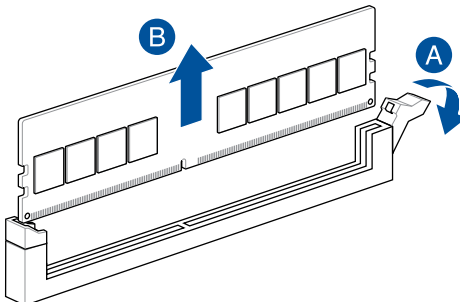
2



### 2.1.3 DIMM installation



#### To remove a DIMM



## 2.1.4 M.2 installation



Supported M.2 type varies per motherboard.



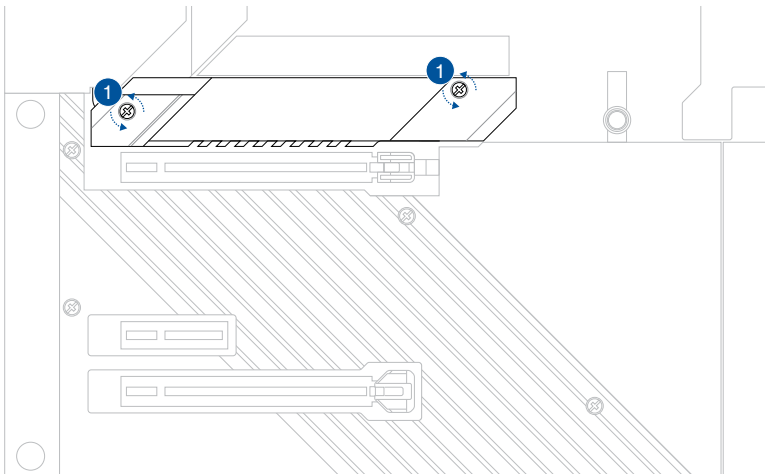
If the thermal pad on the M.2 heatsink becomes damaged, we recommend replacing it with the bundled thermal pad or a thermal pad with a thickness of 1.25mm.



- The illustrations only show the installation steps for a single M.2 slot, the steps are the same for the other M.2 slots if you wish to install an M.2 to another M.2 slot.
- Use a Phillips screwdriver when removing or installing the screws or screw stands mentioned in this section.
- The M.2 is purchased separately.

### For M.2\_1

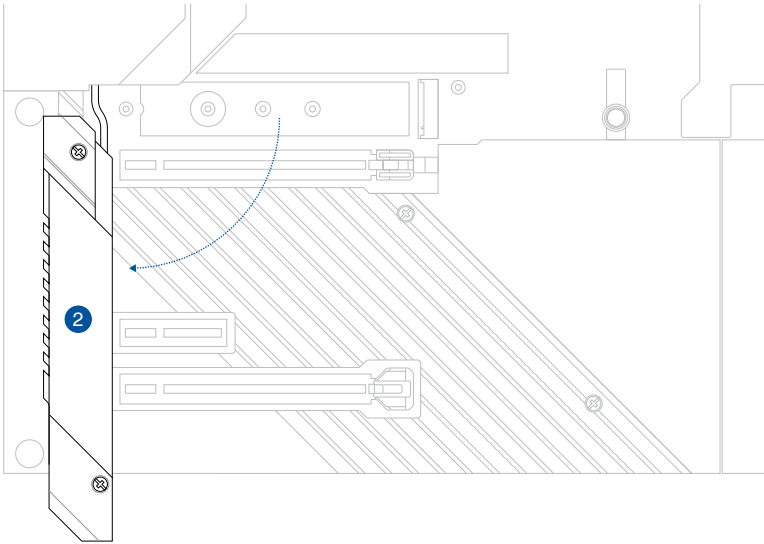
1. Loosen the screws from the heatsink.



2. Gently lift and swivel the heatsink away from the M.2 slot.



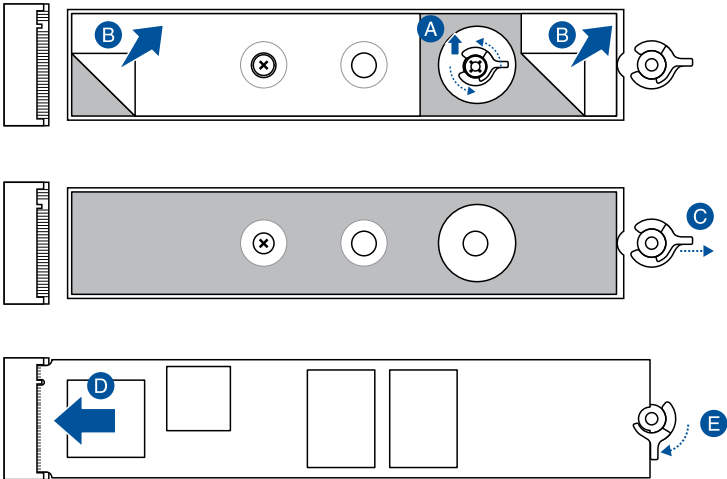
The heatsink has a cable connected to the motherboard, ensure not to pull on the heatsink as this may result in damages to the cable.



3. Install your M.2 to your M.2 slot. The steps may differ between installing M.2 of different lengths, please refer to the different types and their installation steps below:

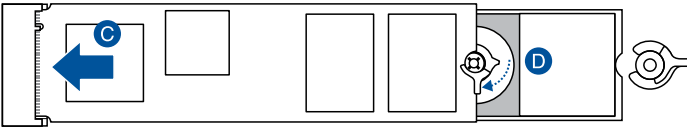
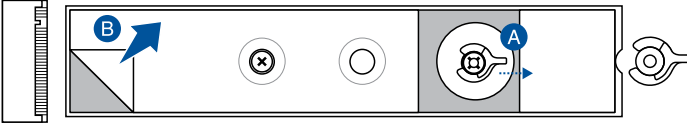
For 22110 length

- A. Remove the pre-installed M.2 Q-latch at the 2280 screw hole.
- B. Remove the plastic films from the thermal pads.
- C. Rotate and adjust the M.2 Q-latch at the 22110 position so that the handle points away from the M.2 slot.
- D. Install your M.2 to the M.2 slot.
- E. Rotate the M.2 Q-Latch clockwise to secure the M.2 in place.



For 2280 length

- A. Rotate and adjust the M.2 Q-latch at the 2280 position so that the handle points away from the M.2 slot.
- B. Remove the plastic film from the thermal pad.
- C. Install your M.2 to the M.2 slot.
- D. Rotate the M.2 Q-Latch clockwise to secure the M.2 in place.





For 2242 and 2260 length

- A. (optional) Remove the black screw if there is a black screw installed in the M.2 slot length screw hole you wish to install your M.2 to.

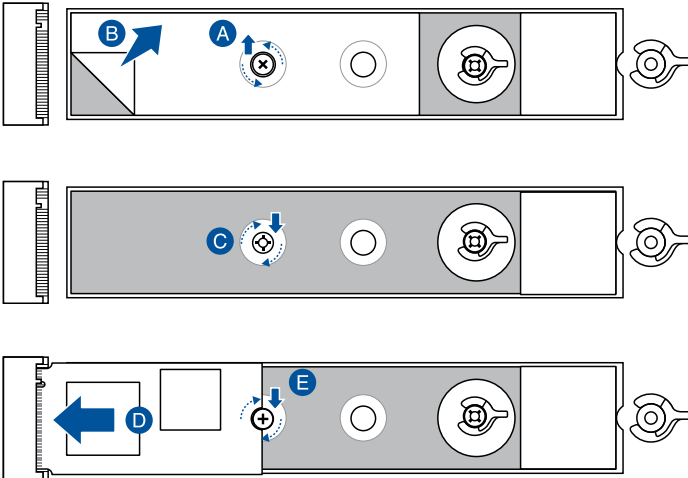


---

Follow this step only if you wish to install an M.2 to type 2242.

---

- B. Remove the plastic film from the thermal pad.
- C. Install the bundled screw stand to the M.2 length screw hole you wish to install your M.2 to.
- D. Install your M.2 to the M.2 slot.
- E. Secure your M.2 using the bundled screw.



4. Remove the plastic film from the thermal pads on the bottom of the heatsink.



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If the thermal pad on the M.2 heatsink becomes damaged, we recommend replacing it with the bundled thermal pad or a thermal pad with a thickness of 1.25mm.

---

5. Replace the heatsink.

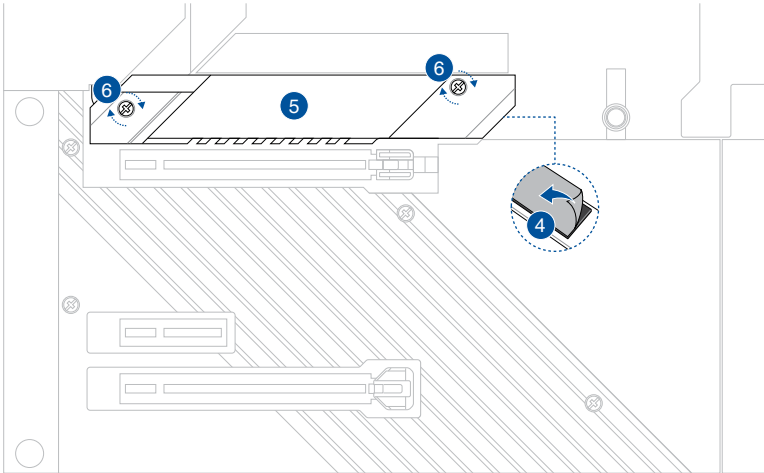


---

We strongly recommend installing the motherboard into the chassis before replacing the M.2\_1 heatsink, as one of the motherboard screw holes used to secure the motherboard to the chassis will not be reachable if the M.2\_1 heatsink is replaced before installing the motherboard into the chassis.

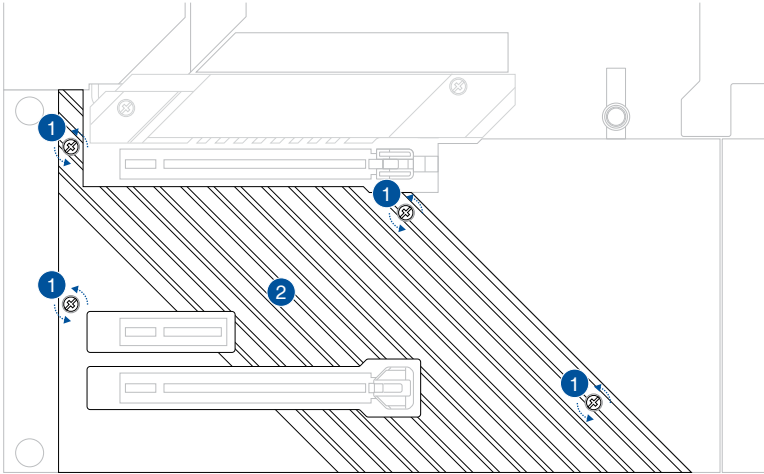
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6. Secure the heatsinks using the screws on the heatsink.

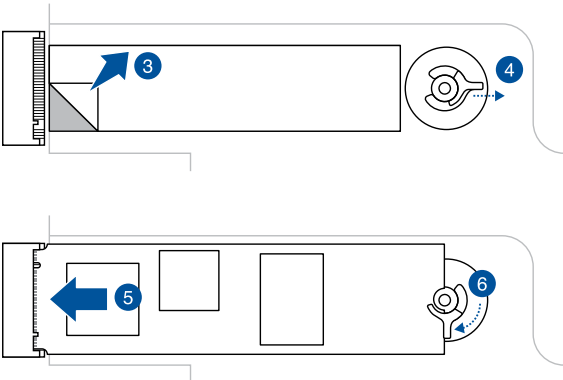


### For M.2\_2 and M.2\_3

1. Loosen the screws from the M.2 heatsink.
2. Lift and remove the heatsink.



3. Remove the plastic film from the thermal pad.
4. Rotate and adjust the M.2 Q-latch so that the handle points away from the M.2 slot.
5. Install your M.2 to the M.2 slot.
6. Rotate the M.2 Q-Latch clockwise to secure the M.2 in place.



7. Remove the plastic film from the thermal pads on the bottom of the heatsink.



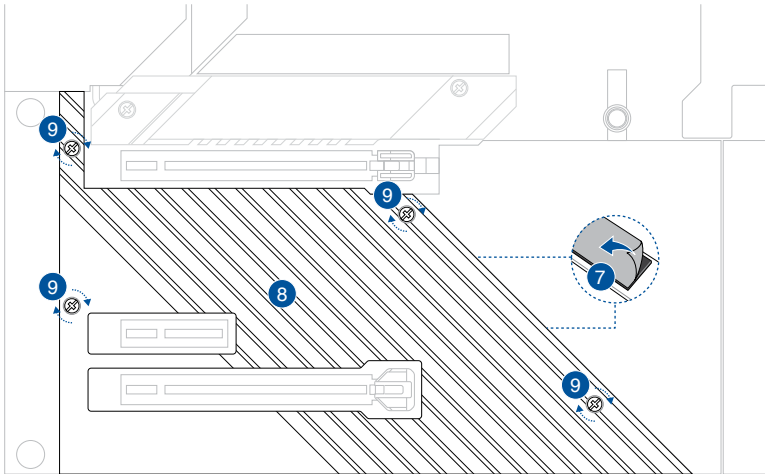
If the thermal pad on the M.2 heatsink becomes damaged, we recommend replacing it with the bundled thermal pad or a thermal pad with a thickness of 1.25mm.

8. Replace the heatsink.



We strongly recommend installing the motherboard into the chassis before replacing the M.2\_2 and M.2\_3 heatsink, as two of the motherboard screw holes used to secure the motherboard to the chassis will not be reachable if the M.2\_2 and M.2\_3 heatsink is replaced before installing the motherboard into the chassis.

9. Secure the heatsinks using the screws on the heatsink.

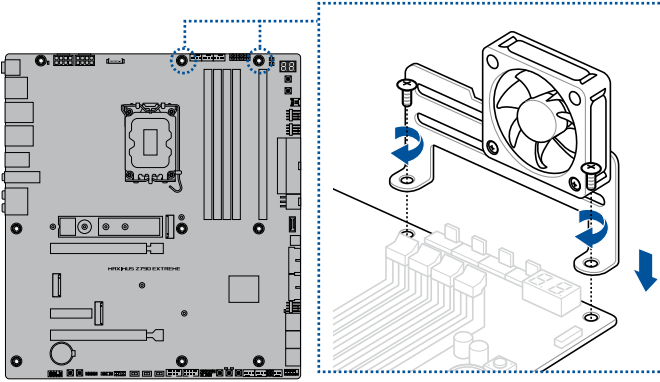


## 2.1.5 Additional cooling kit installation

### To install the DDR5 fan holder

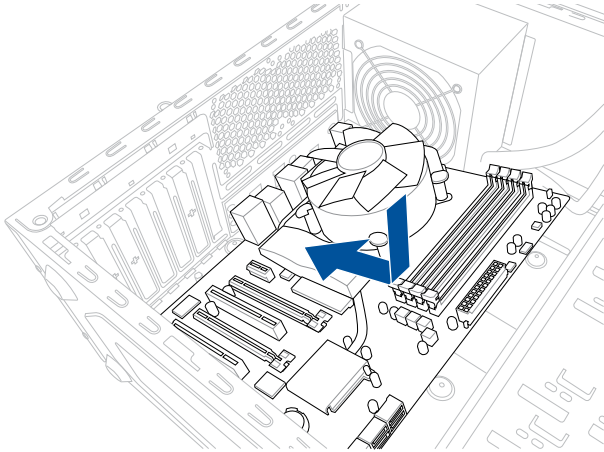


- You may install 12V (1A, 12W), 40mm x 40mm/50mm x 50mm/60mm x 60mm fans onto the fan holder if you require additional cooling for your motherboard.
- The fan is purchased separately.



## 2.1.6 Motherboard installation

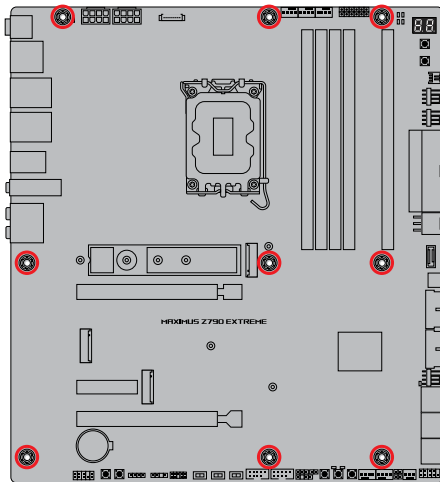
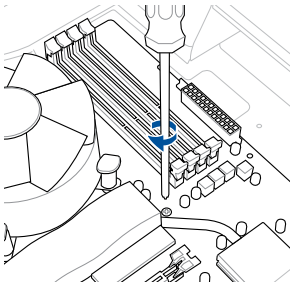
1. Place the motherboard into the chassis, ensuring that its rear I/O ports are aligned to the chassis' rear I/O panel.



2. Place nine (9) screws into the holes indicated by circles to secure the motherboard to the chassis.



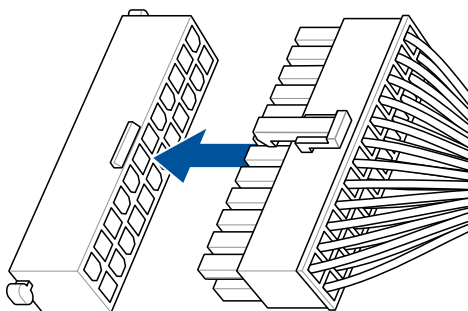
This instruction is for reference only, please place the amount of screws according to your installation situation.



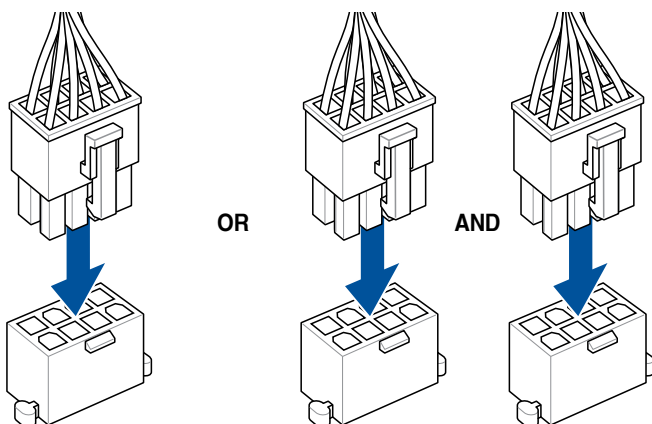
**DO NOT** over tighten the screws! Doing so can damage the motherboard.

## 2.1.7 ATX power connection

1

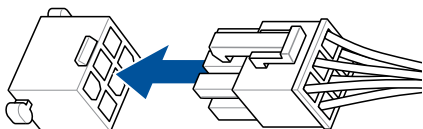


2



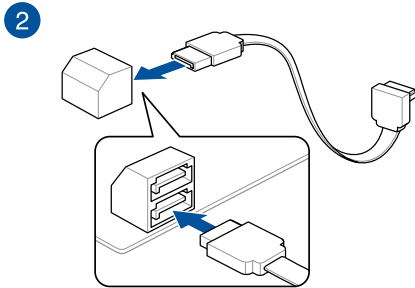
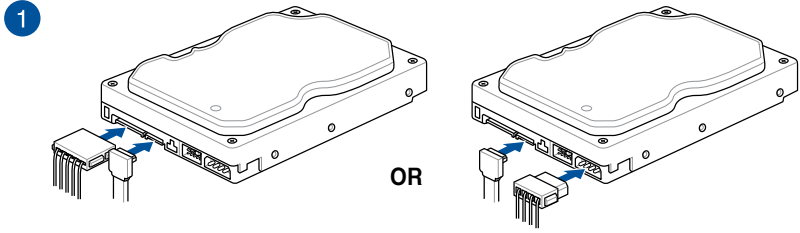
Ensure to connect the 8-pin power plug or both 8-pin power plugs.

3



The **PD\_12V\_PWR** connector provides additional power for your PCIe X16 slots. To support 60W, please install the power cable to the 6-pin PCIe Graphics Card connector (**PD\_12V\_PWR**) else only 27W will be supported.

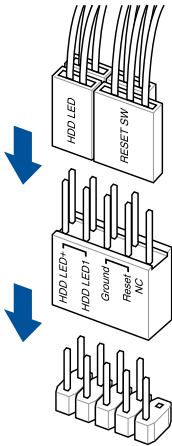
## 2.1.8 SATA device connection



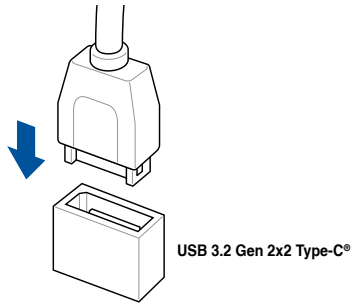


## 2.1.9 Front I/O connector

### To install ASUS Q-Connector

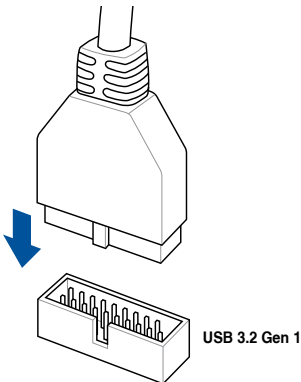


### To install USB 3.2 Gen 2x2 Type-C® connector

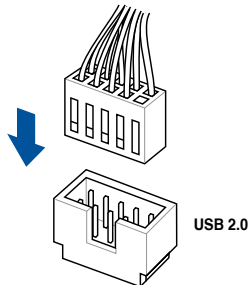


This connector will only fit in one orientation. Push the connector until it clicks into place.

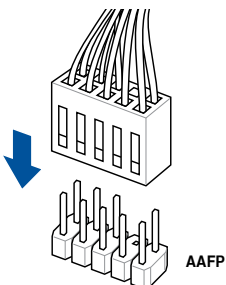
### To install USB 3.2 Gen 1 connector



### To install USB 2.0 connector

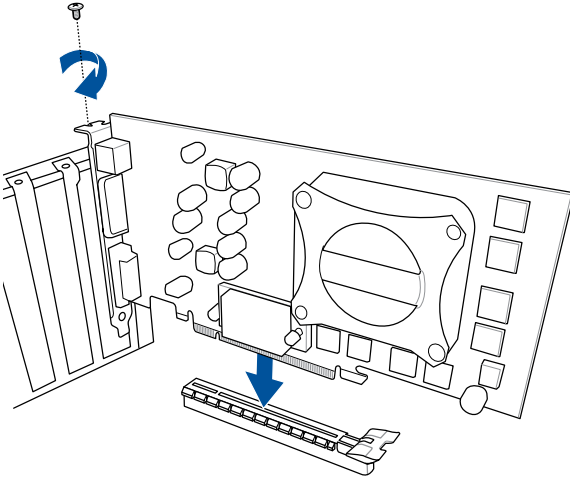


### To install front panel audio connector

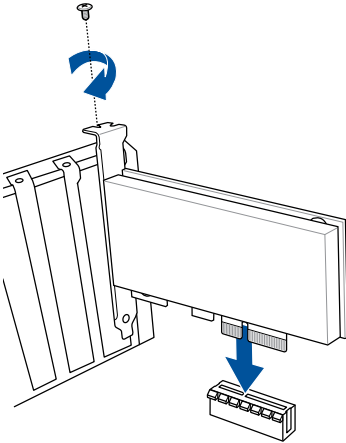


## 2.1.10 Expansion card installation

To install PCIe x16 cards



To install PCIe x4 cards



## Using the PCIe Slot Q-Release

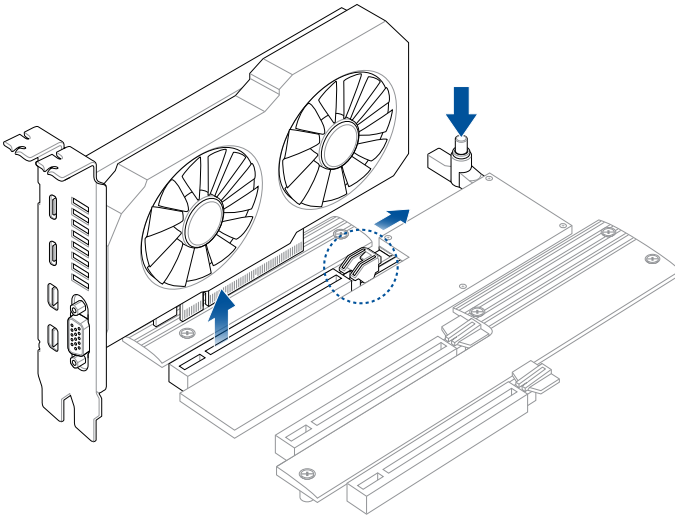
The PCIEX16(G5)\_1 slot comes with a PCIe Slot Q-Release button allowing you to easily remove an expansion card installed to this PCIe slot, even when the expansion card may be blocking the PCIe push-latch, such as a graphics card.

### To release an expansion card using the PCIe Slot Q-Release:

Slightly lift the expansion card with one hand and press the PCIe Slot Q-Release button with the other hand. This should release the expansion card so that you can remove it with ease.



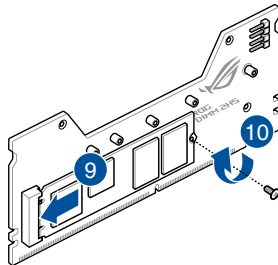
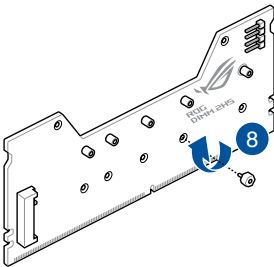
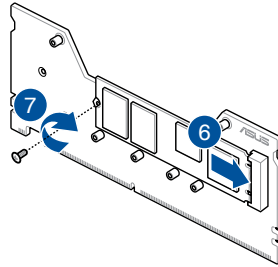
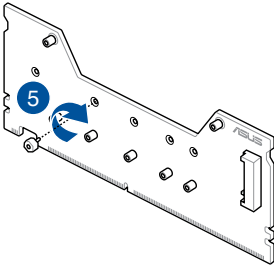
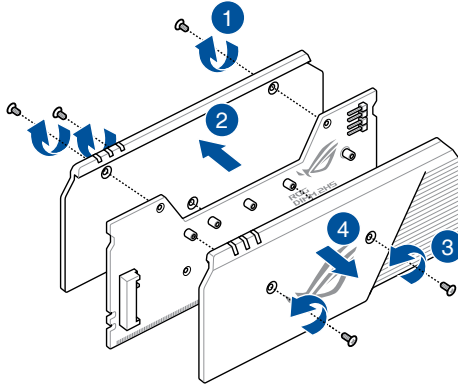
The illustration below is for reference only. The motherboard and PCIe Slot Q-Release button may differ between models, but the steps for using the PCIe Slot Q-Release remain the same.

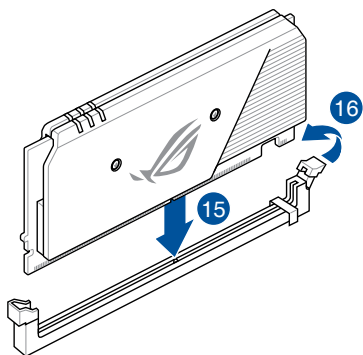
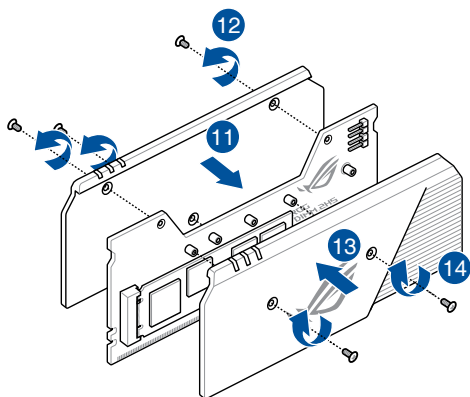


## 2.1.11 DIMM.2 installation



- Supported M.2 type varies per motherboard.
- The M.2 SSD module is purchased separately.





- Before you install or remove the DIMM.2 card, 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 or DIMM.2 card.
- The DIMM.2 card is notched to fit in only one orientation. Ensure that the notch on your card is aligned correctly with the DIMM.2 slot before inserting the card.

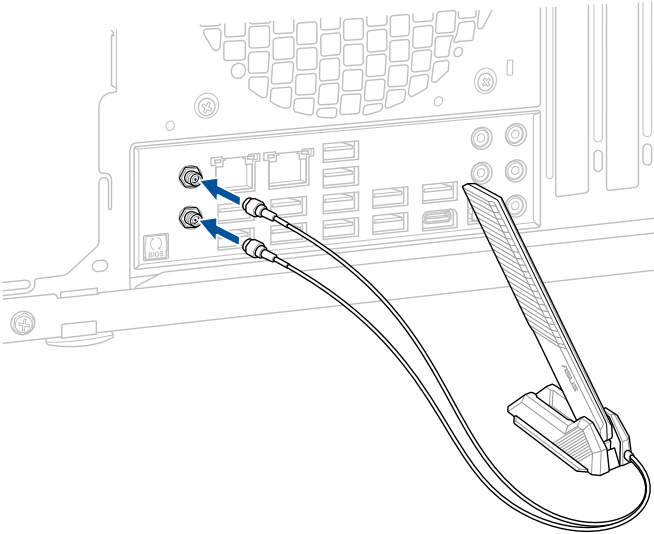


- DIMM.2 module supports PCIe 4.0 x4 M Key design and type 2242 / 2260 / 2280 / 22110 PCIe storage devices.
- These sockets support IRST (Intel® Rapid Storage Technology).
- When using the DIMM.2 Heatsink module, we recommend removing the M.2 SSD's default thermal heatsink before installing the M.2 SSD to the DIMM.2 Heatsink module.
- If your M.2 SSD does not feature a flash chip on the back, please remove the default M.2 pads on your DIMM.2 module and replace them with the bundled taller M.2 pads.

## 2.1.12 Wi-Fi moving antenna installation

### Installing the ASUS Wi-Fi moving antenna

Connect the bundled ASUS Wi-Fi moving antenna connector to the Wi-Fi ports at the back of the chassis.



- Ensure that the ASUS Wi-Fi moving antenna is securely installed to the Wi-Fi ports.
- Ensure that the antenna is at least 20 cm away from all persons.

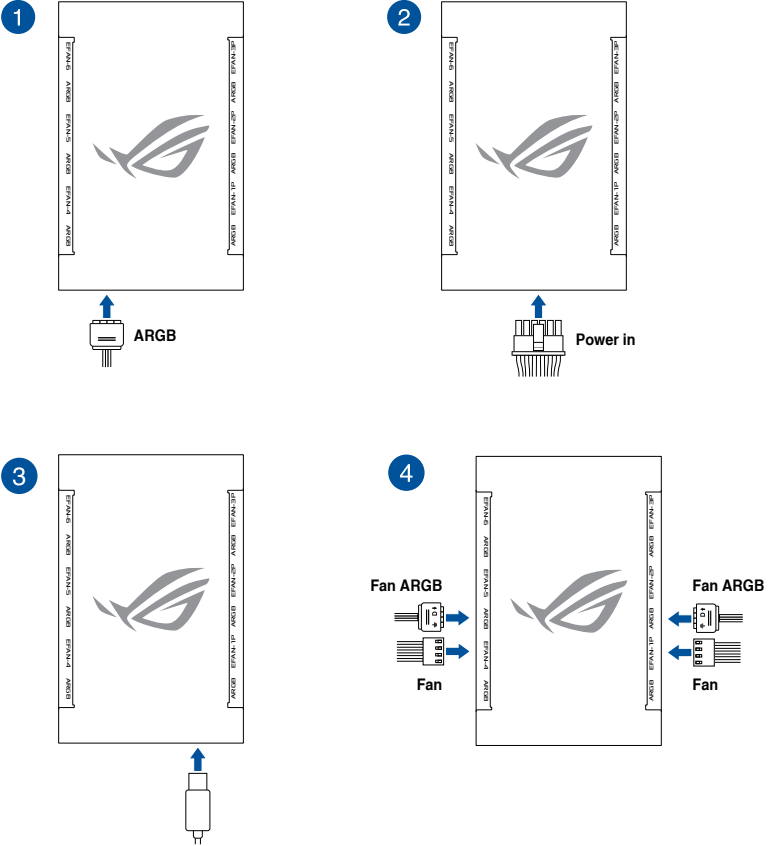


The illustration above is for reference only. The I/O port layout may vary with models, but the Wi-Fi moving antenna installation procedure is the same for all models.

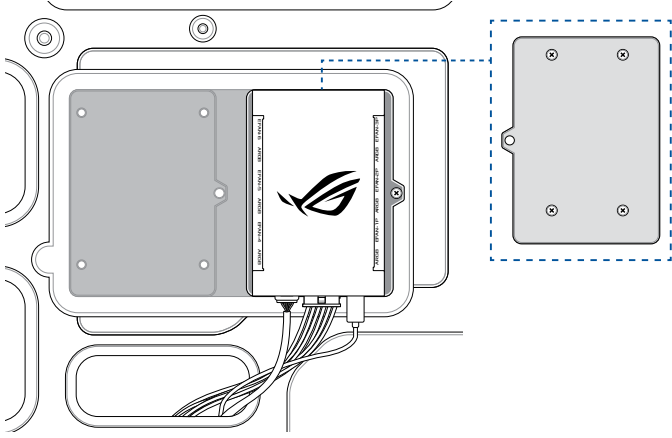
## 2.1.13 ROG FAN CONTROLLER installation



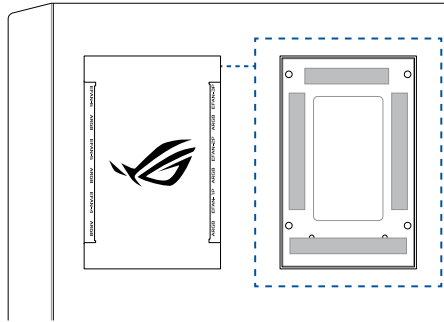
The illustrations in this section are for reference only. The motherboard layout may vary with models, but the installation steps are the same for all models.



5



OR





## 2.2 BIOS update utility

### BIOS FlashBack™

BIOS FlashBack™ allows you to easily update the BIOS without entering the existing BIOS or operating system.

#### To use BIOS FlashBack™:

1. Insert a USB storage device to the BIOS FlashBack™ port.



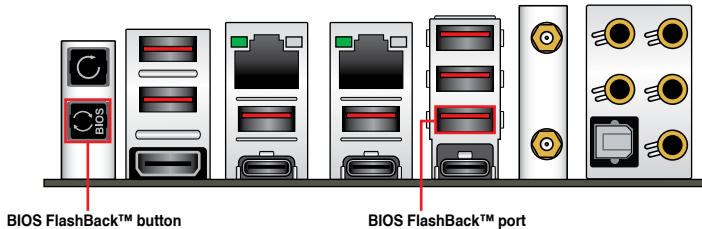
We recommend you to use a USB 2.0 storage device to save the latest BIOS version for better compatibility and stability.

2. Visit <https://www.asus.com/support/> and download the latest BIOS version for this motherboard.
3. Manually rename the file as **MZ790E.CAP**, or launch the **BIOSRenamer.exe** application to automatically rename the file, then copy it to your USB storage device.



The **BIOSRenamer.exe** application is zipped together with your BIOS file when you download a BIOS file for a BIOS FlashBack™ compatible motherboard.

4. Shut down your computer.
5. Press the BIOS FlashBack™ button for three (3) seconds until the BIOS FlashBack™ LED blinks three times, indicating that the BIOS FlashBack™ function is enabled.



6. Wait until the light goes out, indicating that the BIOS updating process is completed.



For more BIOS update utilities in BIOS setup, refer to the section **Updating BIOS** in Chapter 3.



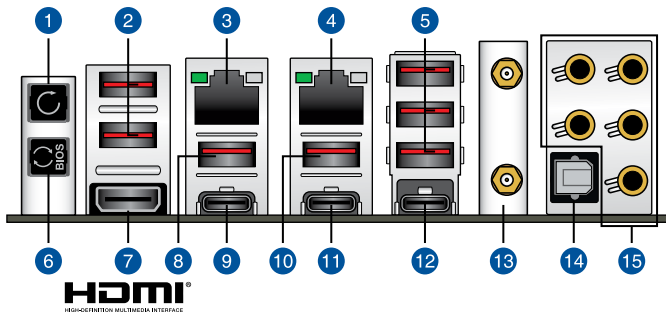
- Do not unplug portable disk, power system, or press the CLR\_CMOS button while BIOS update is ongoing, otherwise update will be interrupted. In case of interruption, please follow the steps again.
- If the light flashes for five seconds and turns into a solid light, this means that the BIOS FlashBack™ is not operating properly. This may be caused by improper installation of the USB storage device and filename/file format error. If this scenario happens, please restart the system to turn off the light.
- Updating BIOS may have risks. If the BIOS program is damaged during the process and results to the system's failure to boot up, please contact your local ASUS Service Center.

For more information on using the BIOS FlashBack™ feature, please refer to <https://www.asus.com/support/>, or by scanning the QR code below.



## 2.3 Motherboard rear and audio connections

### 2.3.1 Rear I/O connection



#### Rear panel connectors

- |     |  |
|-----|--|
| 1.  | Clear CMOS button (CLR_CMOS). Press this button to clear the BIOS setup information only when the systems hangs due to overclocking. |
| 2.  | USB 3.2 Gen 2 Type-A ports E1 and EP2  |
| 3.  | Marvell® AQtion 10Gb Ethernet port*  |
| 4.  | Intel® 2.5Gb Ethernet port*  |
| 5.  | USB 3.2 Gen 2 Type-A ports 6, 7, and 8   |
| 6.  | BIOS FlashBack™ button   |
| 7.  | HDMI® port   |
| 8.  | USB 3.2 Gen 2 Type-A port E3   |
| 9.  | USB 3.2 Gen 2x2 Type-C® port C5  |
| 10. | USB 3.2 Gen 2 Type-A port E4   |
| 11. | Thunderbolt™ 4 USB Type-C® port EC1  |
| 12. | USB 3.2 Gen 2x2 Type-C® port C3  |
| 13. | Wi-Fi module   |
| 14. | Optical S/PDIF OUT port  |
| 15. | LED-illuminated audio jacks**  |

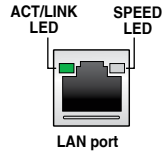
\* and \*\* : Refer to the tables on the next page for LAN port LEDs, and audio port definitions.



We strongly recommend that you connect your devices to ports with matching data transfer rate. For example connecting your USB 3.2 Gen 1 devices to USB 3.2 Gen 1 ports for faster and better performance for your devices.

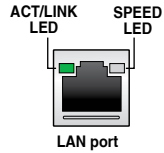
**\* Intel® 2.5Gb Ethernet port LED indications**

| Activity Link LED |               | Speed LED |                               |
|-------------------|---------------|-----------|-------------------------------|
| Status            | Description   | Status    | Description                   |
| OFF               | No link       | OFF       | No link                       |
| GREEN             | Linked        | OFF       | 100 Mbps / 10 Mbps connection |
| BLINKING          | Data activity | GREEN     | 2.5 Gbps connection           |
|                   |               | ORANGE    | 1 Gbps connection             |



**\* Marvell® AQtion 10Gb Ethernet port LED indications**

| Activity Link LED |               | Speed LED |  |
|-------------------|---------------|-----------|--|
| Status            | Description   | Status    | Description                                  |
| OFF               | No link       | OFF       | No link                                      |
| GREEN             | Linked        | GREEN     | 10 Gbps                                      |
| BLINKING          | Data activity | ORANGE    | 5 Gbps/ 2.5 Gbps/ 1Gbps/ 100 Mbps connection |

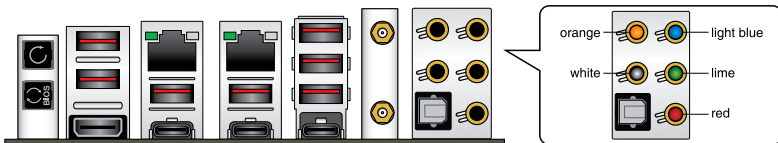


**\*\* Audio 2, 4, 5.1 or 7.1-channel configuration**

| Port                    | 2-channel         | 4-channel         | 5.1-channel       | 7.1-channel       |
|-------------------------|-------------------|-------------------|-------------------|-------------------|
| Light Blue (Rear panel) | -                 | -                 | -                 | Side Speaker Out  |
| Lime (Rear panel)       | Front Speaker Out | Front Speaker Out | Front Speaker Out | Front Speaker Out |
| Red (Rear panel)        | -                 | -                 | -                 | -                 |
| White (Rear panel)      | -                 | Rear Speaker Out  | Rear Speaker Out  | Rear Speaker Out  |
| Orange (Rear panel)     | -                 | -                 | Center/ Subwoofer | Center/ Subwoofer |

**2.3.2 Audio I/O connections**

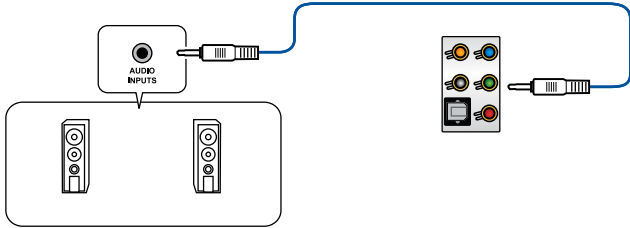
**Audio I/O ports**



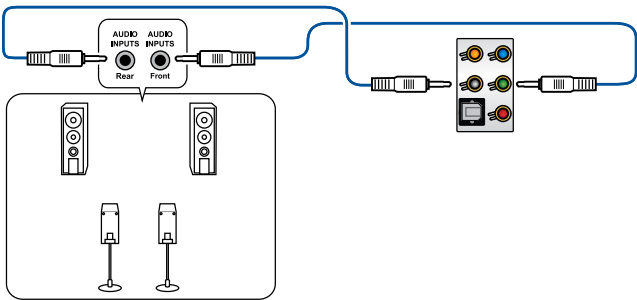
### Connect to Headphone and Mic



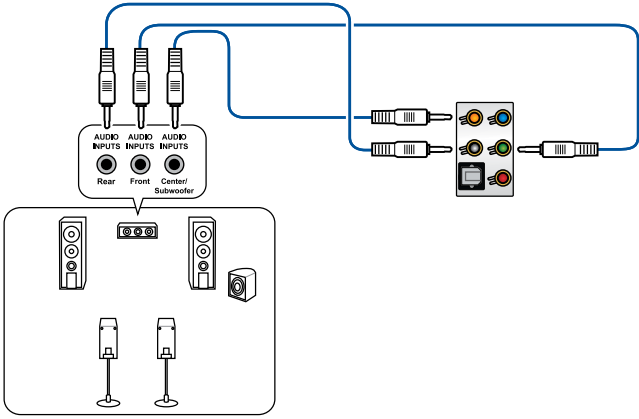
### Connect to 2-channel Speakers



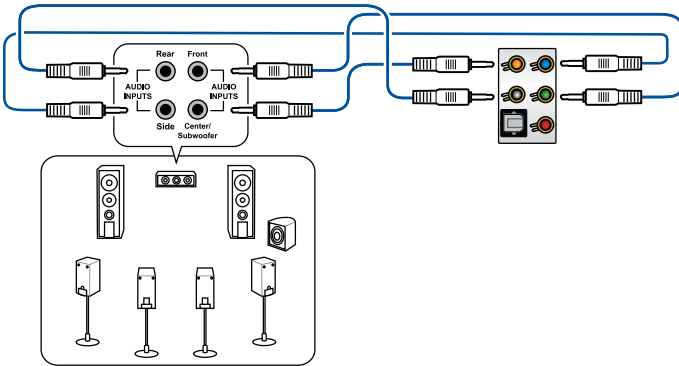
### Connect to 4-channel Speakers



## Connect to 5.1-channel Speakers



## Connect to 7.1-channel Speakers



## 2.4 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 storage 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, 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.

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

## 2.5 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



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For more details on BIOS and RAID configurations, please refer to [www.asus.com/support](http://www.asus.com/support).

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## 3.1 Knowing BIOS



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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 guide 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.**

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BIOS settings and options may vary due to different BIOS release versions. Please refer to the latest BIOS version for settings and options.

---

## 3.2 BIOS setup program

Use the BIOS Setup to update the BIOS or configure its parameters. The BIOS screen include 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.



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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:



- 
- 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. Press the Left arrow key to switch to the **Drive** field.
4. Press the Up/Down arrow keys to find the USB flash disk that contains the latest BIOS, and then press <Enter>.
5. Press the Right arrow key to switch to the **Folder** field.
6. 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 a USB flash drive that contains the BIOS file.

### Recovering the BIOS

1. Download the latest BIOS version for this motherboard from <https://www.asus.com/support/>.
2. Rename the BIOS file as **ASUS.CAP** or **MZ790E.CAP** and copy the renamed BIOS file to a USB flash drive.
3. Turn on the system.
4. Insert the USB flash drive containing the BIOS file to a USB port.
5. 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.
6. 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.



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

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## 3.5 RAID configurations

The motherboard comes with the Intel® Rapid Storage Technology that supports PCIe RAID 0/1/5/10 and SATA RAID 0/1/5/10 configurations.



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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.

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### 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

## Q-Code table

| Code    | Description   |
|---------|---|
| 00      | Not used  |
| 01      | Power on. Reset type detection (soft/hard).                                   |
| 02      | AP initialization before microcode loading                                    |
| 03      | System Agent initialization before microcode loading                          |
| 04      | PCH initialization before microcode loading                                   |
| 06      | Microcode loading   |
| 07      | AP initialization after microcode loading                                     |
| 08      | System Agent initialization after microcode loading                           |
| 09      | PCH initialization after microcode loading                                    |
| 0B      | Cache initialization  |
| 0C – 0D | Reserved for future AMI SEC error codes                                       |
| 0E      | Microcode not found   |
| 0F      | Microcode not loaded  |
| 10      | PEI Core is started   |
| 11 – 14 | Pre-memory CPU initialization is started                                      |
| 15 – 18 | Pre-memory System Agent initialization is started                             |
| 19 – 1C | Pre-memory PCH initialization is started                                      |
| 2B – 2F | Memory initialization   |
| 30      | Reserved for ASL (see ASL Status Codes section below)                         |
| 31      | Memory Installed  |
| 32 – 36 | CPU post-memory initialization  |
| 37 – 3A | Post-Memory System Agent initialization is started                            |
| 3B – 3E | Post-Memory PCH initialization is started                                     |
| 4F      | DXE IPL is started  |
| 50 – 53 | Memory initialization error. Invalid memory type or incompatible memory speed |
| 54      | Unspecified memory initialization error                                       |
| 55      | Memory not installed  |
| 56      | Invalid CPU type or Speed   |
| 57      | CPU mismatch  |
| 58      | CPU self test failed or possible CPU cache error                              |
| 59      | CPU micro-code is not found or micro-code update is failed                    |
| 5A      | Internal CPU error  |
| 5B      | Reset PPI is not available  |
| 5C – 5F | Reserved for future AMI error codes   |

*(continued on the next page)*

## Q-Code table

| Code    | Description  |
|---------|--|
| E0      | S3 Resume is started (S3 Resume PPI is called by the DXE IPL)  |
| E1      | S3 Boot Script execution                                       |
| E2      | Video repost   |
| E3      | OS S3 wake vector call   |
| E4 – E7 | Reserved for future AMI progress codes                         |
| E8      | S3 Resume Failed   |
| E9      | S3 Resume PPI not Found  |
| EA      | S3 Resume Boot Script Error                                    |
| EB      | S3 OS Wake Error   |
| EC – EF | Reserved for future AMI error codes                            |
| F0      | Recovery condition triggered by firmware (Auto recovery)       |
| F1      | Recovery condition triggered by user (Forced recovery)         |
| F2      | Recovery process started                                       |
| F3      | Recovery firmware image is found                               |
| F4      | Recovery firmware image is loaded                              |
| F5 – F7 | Reserved for future AMI progress codes                         |
| F8      | Recovery PPI is not available                                  |
| F9      | Recovery capsule is not found                                  |
| FA      | Invalid recovery capsule                                       |
| FB – FF | Reserved for future AMI error codes                            |
| 60      | DXE Core is started  |
| 61      | NVRAM initialization   |
| 62      | Installation of the PCH Runtime Services                       |
| 63 – 67 | CPU DXE initialization is started                              |
| 68      | PCI host bridge initialization                                 |
| 69      | System Agent DXE initialization is started                     |
| 6A      | System Agent DXE SMM initialization is started                 |
| 6B – 6F | System Agent DXE initialization (System Agent module specific) |
| 70      | PCH DXE initialization is started                              |
| 71      | PCH DXE SMM initialization is started                          |
| 72      | PCH devices initialization                                     |
| 73 – 77 | PCH DXE Initialization (PCH module specific)                   |
| 78      | ACPI module initialization                                     |
| 79      | CSM initialization   |
| 7A – 7F | Reserved for future AMI DXE codes                              |

*(continued on the next page)*



## Q-Code table

| Code    | Description   |
|---------|---|
| 90      | Boot Device Selection (BDS) phase is started          |
| 91      | Driver connecting is started                          |
| 92      | PCI Bus initialization is started                     |
| 93      | PCI Bus Hot Plug Controller Initialization            |
| 94      | PCI Bus Enumeration                                   |
| 95      | PCI Bus Request Resources                             |
| 96      | PCI Bus Assign Resources                              |
| 97      | Console Output devices connect                        |
| 98      | Console input devices connect                         |
| 99      | Super IO Initialization                               |
| 9A      | USB initialization is started                         |
| 9B      | USB Reset   |
| 9C      | USB Detect  |
| 9D      | USB Enable  |
| 9E – 9F | Reserved for future AMI codes                         |
| A0      | IDE initialization is started                         |
| A1      | IDE Reset   |
| A2      | IDE Detect  |
| A3      | IDE Enable  |
| A4      | SCSI initialization is started                        |
| A5      | SCSI Reset  |
| A6      | SCSI Detect   |
| A7      | SCSI Enable   |
| A8      | Setup Verifying Password                              |
| A9      | Start of Setup  |
| AA      | Reserved for ASL (see ASL Status Codes section below) |
| AB      | Setup Input Wait                                      |
| AC      | Reserved for ASL (see ASL Status Codes section below) |
| AD      | Ready To Boot event                                   |
| AE      | Legacy Boot event                                     |
| AF      | Exit Boot Services event                              |
| B0      | Runtime Set Virtual Address MAP Begin                 |
| B1      | Runtime Set Virtual Address MAP End                   |
| B2      | Legacy Option ROM Initialization                      |
| B3      | System Reset  |

*(continued on the next page)*

## Q-Code table

| Code   | Description   |
|--------|---|
| B4     | USB hot plug  |
| B5     | PCI bus hot plug                                      |
| B6     | Clean-up of NVRAM                                     |
| B7     | Configuration Reset (reset of NVRAM settings)         |
| B8– BF | Reserved for future AMI codes                         |
| D0     | CPU initialization error                              |
| D1     | System Agent initialization error                     |
| D2     | PCH initialization error                              |
| D3     | Some of the Architectural Protocols are not available |
| D4     | PCI resource allocation error. Out of Resources       |
| D5     | No Space for Legacy Option ROM                        |
| D6     | No Console Output Devices are found                   |
| D7     | No Console Input Devices are found                    |
| D8     | Invalid password                                      |
| D9     | Error loading Boot Option (LoadImage returned error)  |
| DA     | Boot Option is failed (StartImage returned error)     |
| DB     | Flash update is failed                                |
| DC     | Reset protocol is not available                       |

### ACPI/ASL Checkpoints (under OS)

| Code | Description   |
|------|---|
| 03   | System is entering S3 sleep state   |
| 04   | System is entering S4 sleep state   |
| 05   | System is entering S5 sleep state   |
| 30   | System is waking up from the S3 sleep state                                   |
| 40   | System is waking up from the S4 sleep state                                   |
| AC   | System has transitioned into ACPI mode. Interrupt controller is in PIC mode.  |
| AA   | System has transitioned into ACPI mode. Interrupt controller is in APIC mode. |

## 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.

### RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

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The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

## 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.

Operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

CAN ICES-003(B)/NMB-003(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.

La bande 5150–5250 MHz est réservée uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

CAN ICES-003(B)/NMB-003(B)

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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。

VCCI-B

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應避免影響附近雷達系統之操作。

## Japan RF Equipment Statement

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本製品は、5GHz帯域での通信に対応しています。電波法の定めにより5.2GHz、5.3GHz帯域の電波は屋外で使用が禁じられています。

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- a. Soyez particulièrement vigilant quant à votre sécurité lors de l'utilisation de cet appareil dans certains lieux (les avions, les aéroports, les hôpitaux, les stations-service et les garages professionnels).
- b. Évitez d'utiliser cet appareil à proximité de dispositifs médicaux implantés. Si vous portez un implant électronique (stimulateurs cardiaques, pompes à insuline, neurostimulateurs...), veuillez impérativement respecter une distance minimale de 15 centimètres entre cet appareil et l'implant pour réduire les risques d'interférence.
- c. Utilisez cet appareil dans de bonnes conditions de réception pour minimiser le niveau de rayonnement. Ce n'est pas toujours le cas dans certaines zones ou situations, notamment dans les parkings souterrains, dans les ascenseurs, en train ou en voiture ou tout simplement dans un secteur mal couvert par le réseau.
- d. Tenez cet appareil à distance du ventre des femmes enceintes et du bas-ventre des adolescents.

## 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.

### Türkiye 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.

## France sorting and recycling information



## Safety Precautions

Accessories that came with this product have been designed and verified for the use in connection with this product. Never use accessories for other products to prevent the risk of electric shock or fire.

## 安全上のご注意

付属品は当該専用品です。他の機器には使用しないでください。機器の破損もしくは、火災や感電の原因となることがあります。

### Simplified UKCA Declaration of Conformity

ASUSTek Computer Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of The Radio Equipment Regulations 2017 (S.I. 2017/1206). Full text of UKCA declaration of conformity is available at <https://www.asus.com/support/>.

The WiFi operating in the band 5150-5350MHz shall be restricted to indoor use for the country listed below:

# UK

### UKCA RF Output table (The Radio Equipment Regulations 2017)

Intel® Wi-Fi 6E AX411 (Model: AX411NGW):

- a. Low Power Indoor (LPI) Wi-Fi 6E devices:  
The device is restricted to indoor use only when operating in the 5925 to 6425 MHz frequency range in UK.
- b. Very Low Power (VLP) Wi-Fi 6E devices (portable devices):  
The device is not permitted to be used on Unmanned Aircraft Systems (UAS) when operating in the 5925 to 6425 MHz frequency range in UK.

| Function  | Frequency       | Maximum Output Power (EIRP) |
|-----------|-----------------|-----------------------------|
| WiFi      | 2412 - 2472 MHz | 20 dBm                      |
|           | 5150 - 5350 MHz | 20 dBm                      |
|           | 5470 - 5725 MHz | 19 dBm                      |
|           | 5725 - 5850 MHz | 11 dBm                      |
|           | 5945 - 6425 MHz | 21 dBm                      |
| Bluetooth | 2402 - 2480 MHz | 13 dBm                      |

\* Receiver category 1





### Simplified EU Declaration of Conformity

ASUSTek Computer Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. Full text of EU declaration of conformity is available at <https://www.asus.com/support/>.

The WiFi operating in the band 5150-5350MHz shall be restricted to indoor use for countries listed in the table below:

- Low Power Indoor (LPI) Wi-Fi 6E devices:**  
The device is restricted to indoor use only when operating in the 5945 to 6425 MHz frequency range in Belgium (BE), Bulgaria (BG), Cyprus (CY), Czech Republic (CZ), Estonia (EE), France (FR), Iceland (IS), Ireland (IE), Lithuania (LT), Germany (DE), Netherlands (NL), Spain (ES).
- Very Low Power (VLP) Wi-Fi 6E devices (portable devices):**  
The device is not permitted to be used on Unmanned Aircraft Systems (UAS) when operating in the 5945 to 6425 MHz frequency range in Belgium (BE), Bulgaria (BG), Cyprus (CY), Czech Republic (CZ), Estonia (EE), France (FR), Iceland (IS), Ireland (IE), Lithuania (LT), Germany (DE), Netherlands (NL), Spain (ES).

### Déclaration simplifiée de conformité de l'UE

ASUSTek Computer Inc. déclare par la présente que cet appareil est conforme aux critères essentiels et autres clauses pertinentes de la directive 2014/53/UE. La déclaration de conformité de l'UE peut être téléchargée à partir du site internet suivant: <https://www.asus.com/support/>.

Dans la plage de fréquence 5150-5350 MHz, le Wi-Fi est restreint à une utilisation en intérieur dans les pays listés dans le tableau ci-dessous:

- Pour les appareils Wi-Fi 6E LPI (Low Power Indoor) :**  
L'appareil est limité à une utilisation en intérieur uniquement lorsqu'il fonctionne dans la plage de fréquences 5945-6425MHz en Belgique (BE), Bulgarie (BG), Chypre (CY), République tchèque (CZ), Estonie (EE), France (FR), Islande (IS), Irlande (IE), Lituanie (LT), Allemagne (DE), Pays-Bas (NL), Espagne (ES).
- Pour les appareils portables Wi-Fi 6E VLP (Very Low Power) :**  
L'appareil n'est pas autorisé à être utilisé sur des systèmes d'aéronefs sans pilote (UAS) lorsqu'il fonctionne dans la plage de fréquences 5945-6425MHz en Belgique (BE), en Bulgarie (BG), Chypre (CY), République tchèque (CZ), Estonie (EE), France (FR), Islande (IS), Irlande (IE), Lituanie (LT), Allemagne (DE), Pays-Bas (NL), Espagne (ES).

### Vereneinfachte EU-Konformitätserklärung

ASUSTEK COMPUTER INC erklärt hiermit, dass dieses Gerät mit den grundlegenden Anforderungen und anderen relevanten Bestimmungen der Richtlinie 2014/53/UE übereinstimmt. Der gesamte Text der EU-Konformitätserklärung ist verfügbar unter: <https://www.asus.com/support/>. Der WLAN-Betrieb im Band von 5150-5350 MHz ist für die in der untenen Tabelle aufgeführten Länder auf den Innenbereich beschränkt:

- Low Power Indoor (LPI) Wi-Fi 6E-Geräte:**  
Das Gerät ist auf den Innenbereich beschränkt, wenn es im Frequenzbereich von 5945 MHz bis 6425 MHz in Belgien (BE), Bulgarien (BG), Zypern (CY), der Tschechischen Republik (CZ), Estland (EE), Frankreich (FR), Island (IS), Irland (IE), Litauen (LT), Deutschland (DE), den Niederlanden (NL), Spanien (ES) betrieben wird.
- Very Low Power (VLP) Wi-Fi 6E-Geräte (tragbare Geräte):**  
Das Gerät darf nicht auf unbemannten Luftfahrzeugsystemen (UAS) verwendet werden, wenn es im Frequenzbereich von 5945 MHz bis 6425 MHz in Belgien (BE), Bulgarien (BG), Zypern (CY), der Tschechischen Republik (CZ), Estland (EE), Frankreich (FR), Island (IS), Irland (IE), Litauen (LT), Deutschland (DE), den Niederlanden (NL), Spanien (ES) betrieben wird.

### Dichiarazione di conformità UE semplificata

ASUSTEK Computer Inc. con la presente dichiara che questo dispositivo è conforme ai requisiti essenziali e alle altre disposizioni pertinenti con la direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE è disponibile all'indirizzo: <https://www.asus.com/support/>.

L'utilizzo della rete Wi-Fi con frequenza compresa nell'intervallo 5150-5350MHz deve essere limitato all'interno degli edifici per i paesi presenti nella seguente tabella:

- Dispositivi LPI (Low Power Indoor) Wi-Fi 6E:**  
Il dispositivo è limitato all'uso in ambienti interni quando funziona nella gamma di frequenza da 5945 a 6425 MHz in Belgio (BE), Bulgaria (BG), Cipro (CY), Repubblica Ceca (CZ), Estonia (EE), Francia (FR), Islanda (IS), Irlanda (IE), Lituania (LT), Germania (DE), Paesi Bassi (NL), Spagna (ES).
- Dispositivi VLP (Very Low Power) Wi-Fi 6E (dispositivi portatili):**  
Il dispositivo non può essere utilizzato su Unmanned Aircraft Systems (UAS) quando opera nella gamma di frequenza da 5945 a 6425 MHz in Belgio (BE), Bulgaria (BG), Cipro (CY), Repubblica Ceca (CZ), Estonia (EE), Francia (FR), Islanda (IS), Irlanda (IE), Lituania (LT), Germania (DE), Paesi Bassi (NL), Spagna (ES).

### Упрощенное заявление о соответствии европейской директиве

ASUSTEK Computer Inc. заявляет, что устройство соответствует основным требованиям и другим соответствующим условиям директивы 2014/53/UE. Полный текст декларации соответствия ЕС доступен на <https://www.asus.com/support/>.

Работа WiFi в диапазоне частот 5150-5350 должна быть ограничена использованием в помещениях для стран, перечисленных в таблице ниже:

- Устройства Wi-Fi 6E с низким энергопотреблением в помещении (LPI):**  
Устройство разрешено не-использовать только в помещении при работе в диапазоне частот от 5945 до 6425 МГц в Бельгии (BE), Болгарии (BG), Кипре (CY), Чехии (CZ), Эстонии (EE), Франции (FR), Исландии (IS), Ирландии (IE), Литве (LT), Германии (DE), Нидерландах (NL), Испании (ES).
- Устройства Wi-Fi 6E с очень низким энергопотреблением (VLP) (портативные устройства):**  
Устройство не разрешается использовать в беспилотных авиационных системах (БАС) при работе в диапазоне частот от 5945 до 6425 МГц в Бельгии (BE), Болгарии (BG), Кипре (CY), Чехии (CZ), Эстонии (EE), Франции (FR), Исландии (IS), Ирландии (IE), Литве (LT), Германии (DE), Нидерландах (NL), Испании (ES).

### إعلان التوافق المبسط الصادر عن الاتحاد الأوروبي

تقر شركة ASUSTEK Computer Inc. هذا الجهاز بتوافق مع المتطلبات الأساسية والأحكام الأخرى ذات الصلة الخاصة بمتطلبات توجيه 2014/53/UE. يتوفر النص الكامل لإعلان التوافق الصادر عن الاتحاد الأوروبي على:

<https://www.asus.com/support/>.

يجب حصر استخدام WiFi العاملة بـ 5150-5350 ميجا هرتز على الاستخدام المنزلي للبلدان المدرجة بالجدول.

- أجهزة Wi-Fi 6E منخفضة الطاقة (LPI):**  
يحظر استخدام الجهاز داخل أي عندما يعمل في نطاق ترددي من 5945 لـ 6425 ميجا هرتز في بلجيكا وبولغاري وقبرص وجمهورية التشيك وإستونيا وفرنسا وإيسلندا وأيرلندا وليتوانيا وألمانيا وهولندا وإسبانيا.
- أجهزة Wi-Fi 6E منخفضة الطاقة بشدة (VLP) (الأجهزة المحمولة):**  
لا يسمح باستخدام الجهاز على أنظمة الطيران الآلية عندما يعمل في نطاق ترددي من 5945 لـ 6425 ميجا هرتز في بلجيكا وبولغاري وقبرص وجمهورية التشيك وإستونيا وفرنسا وإيسلندا وأيرلندا وليتوانيا وألمانيا وهولندا وإسبانيا.

### Опростена декларация за съответствие на ЕС

С настоящото ASUSTEK Computer Inc. декларира, че това устройство е в съответствие със съществените изисквания и другите приложими постановления на свързаната Директива 2014/53/ЕС. Пълният текст на ЕС декларация за съвместимост е достъпен на адрес <https://www.asus.com/support/>.

WiFi, работеща в диапазон 5150-5350MHz, трябва да се ограничи до употреба на закрито за страните, посочени в таблицата по-долу:

- Ниско захранване на закрито (LPI) Wi-Fi 6E устройства:**  
Устройството е ограничено до употреба само на закрито, когато работи в честотния диапазон от 5945 до 6425 MHz в Бельгия (BE), България (BG), Кипър (CY), Чехия (CZ), Естония (EE), Франция (FR), Исландия (IS), Ирландия (IE), Литва (LT), Германия (DE), Нидерландия (NL), Испания (ES).
- Много ниско захранване (VLP) Wi-Fi 6E устройства (преносими устройства):**  
Устройството не е разрешено за употреба в безпилотни летателни средства (UAS) при работа в честотния диапазон от 5945 до 6425 MHz в Бельгия (BE), България (BG), Кипър (CY), Чехия (CZ), Естония (EE), Франция (FR), Исландия (IS), Ирландия (IE), Литва (LT), Германия (DE), Нидерландия (NL), Испания (ES).

### Declaração de Conformidade UE Simplificada

ASUSTEK Computer Inc. declara que este dispositivo está em conformidade com os requisitos essenciais e outras disposições relevantes relacionadas às diretivas 2014/53/UE. O texto completo da declaração de conformidade CE está disponível em <https://www.asus.com/support/>.

O WiFi operando na banda 5150-5350MHz deve ser restrito para uso interno para os países listados na tabela abaixo:

- Dispositivos Wi-Fi 6E Internos de Baixa Potência (LPI):**  
O dispositivo é restrito apenas para uso interno quando operar na faixa de frequência de 5945 a 6425 MHz na Bélgica (BE), Bulgária (BG), Chipre (CY), República Tcheca (CZ), Estónia (EE), França (FR), Islândia (IS), Irlanda (IE), Lituânia (LT), Alemanha (DE), Países Baixos (NL), Espanha (ES).
- Dispositivos Wi-Fi 6E de Potência Muito Baixa (VLP) (dispositivos portáteis):**  
O dispositivo não é permitido para uso nos Sistemas de Aeronaves Não Tripuladas (UAS) quando operar na faixa de frequência de 5945 a 6425 MHz na Bélgica (BE), Bulgária (BG), Chipre (CY), República Tcheca (CZ), Estónia (EE), França (FR), Islândia (IS), Irlanda (IE), Lituânia (LT), Alemanha (DE), Países Baixos (NL), Espanha (ES).

## Pojednostavljena EU Izjava o sukladnosti

ASUSTek Computer Inc. ovim izjavljuje da je ovaj uređaj sukladan s bitnim zahtjevima i ostalim odgovarajućim odredbama direktive 2014/53/EU. Cijeli tekst EU izjave o sukladnosti dostupan je na <https://www.asus.com/support/>.  
WiFi koji radi na opsegu frekvencija 5150-5350 MHz bit će ograničen na upotrebu u zatvorenom prostoru u zemljama na donjem popisu:

- Unutarnji uređaji male snage (LPI) Wi-Fi 6E:  
Uređaj je ograničen na upotrebu u zatvorenom prostoru samo kada radi u frekvencijskom pojasu od 5945 do 6425 MHz u Belgiji (BE), Bugarskoj (BG), Cipru (CY), Češkoj (CZ), Estoniji (EE), Francuskoj (FR), Islandu (IS), Irskoj (IE), Litvi (LT), Njemačkoj (DE), Nizozemskoj (NL), Španjolskoj (ES).
- Uređaji vrlo male snage (VLP) Wi-Fi 6E (prijenosni uređaji):  
Uređaj nije dopušteno koristiti u sustavima bespilotnih letjelica (UAS) kada radi u frekvencijskom pojasu od 5945 do 6425 MHz u Belgiji (BE), Bugarskoj (BG), Cipru (CY), Češkoj (CZ), Estoniji (EE), Francuskoj (FR), Islandu (IS), Irskoj (IE), Litvi (LT), Njemačkoj (DE), Nizozemskoj (NL), Španjolskoj (ES).

## Zjednodušene prohlášení o shodě EU

Společnost ASUSTek Computer Inc. tímto prohlašuje, že toto zařízení splňuje základní požadavky a další příslušná ustanovení směrnice 2014/53/EU. Plné znění prohlášení o shodě EU je k dispozici na adrese <https://www.asus.com/support/>.

V zemích uvedených v tabulce je provoz sítě Wi-Fi ve frekvenčním rozsahu 5 150 - 5 350 MHz povolen pouze ve vnitřních prostorech:

- Zařízení Wi-Fi 6E s nízkým výkonem („LPI“):  
Při provozu ve frekvenčním pásmu 5945 až 6425 MHz je používání tohoto zařízení omezeno pouze na interiéry v Belgii (BE), Bulharsku (BG), Kypru (CY), České republice (CZ), Estonsku (EE), Francii (FR), Islandu (IS), Irsku (IE), Litvě (LT), Německu (DE), Nizozemsku (NL), Španělsku (ES).
- Zařízení Wi-Fi 6E s velmi nízkým výkonem („VLP“) (přenosná zařízení):  
Při provozu ve frekvenčním pásmu 5945 až 6425 MHz není povoleno používat toto zařízení v systémech bezpilotních letadel (UAS) v Belgii (BE), Bulharsku (BG), Kypru (CY), České republice (CZ), Estonsku (EE), Francii (FR), Islandu (IS), Irsku (IE), Litvě (LT), Německu (DE), Nizozemsku (NL), Španělsku (ES).

## Forenklet EU-overensstemmelseserklæring

ASUSTek Computer Inc. erklærer hermed at denne enhed er i overensstemmelse med hovedkravene og øvrige relevante bestemmelser i direktivet 2014/53/EU. Hele EU-overensstemmelseserklæringen kan findes på <https://www.asus.com/support/>.

Wi-Fi, der bruger 5150-5350 MHz skal begrænses til indendørs brug i lande, der er anført i tabellen:

- Lav strøm indendørs (LPI) Wi-Fi 6E-enheder:  
Enheden må kun bruges indendørs, når den bruges inden for frekvensområdet 5945 til 6425 MHz i Belgien (BE), Bulgarien (BG), Cypern (CY), Tjekkiet (CZ), Estland (EE), Frankrig (FR), Island (IS), Irland (IE), Litauen (LT), Tyskland (DE), Holland (NL), Spanien (ES).
- Meget lav strøm indendørs (VLP) Wi-Fi 6E-enheder (bærbare enheder):  
Enheden må kun bruges i ubemandede flysystemer (UAS), når den bruges inden for frekvensområdet 5945 til 6425 MHz i Belgien (BE), Bulgarien (BG), Cypern (CY), Tjekkiet (CZ), Estland (EE), Frankrig (FR), Island (IS), Irland (IE), Litauen (LT), Tyskland (DE), Holland (NL), Spanien (ES).

## Verenoudigdig EU-conformiteitsverklaring

ASUSTek Computer Inc. verklaart hierbij dat dit apparaat voldoet aan de Essentiële vereisten en andere relevante bepalingen van Richtlijn 2014/53/EU. De volledige tekst van de EU-conformiteitsverklaring is beschikbaar op <https://www.asus.com/support/>.

De WiFi op 5150-5350MHz zal beperkt zijn tot binnengebruik voor in de tabel vermelde landen:

- LPI (Low Power Indoor=laag vermogen binnenshuis) Wi-Fi 6E-apparaten:  
Het apparaat is beperkt tot enkel binnengebruik bij bedienen in het frequentiebereik van 5945 tot 6425 MHz in België (BE), Bulgarije (BG), Cyprus (CY), Tsjechose Republiek (CZ), Estland (EE), Frankrijk (FR), Island (IS), Ierland (IE), Litouwen (LT), Duitsland (DE), Nederland (NL), Spanje (ES).
- VLP (Very Low Power = zeer laag vermogen) Wi-Fi 6E-apparaten (draagbare apparaten):  
Het apparaat mag niet worden gebruikt in onbemande luchtvaartsystemen (UAS) bij bedienen in het frequentiebereik van 5945 tot 6425 MHz in België (BE), Bulgarije (BG), Cyprus (CY), Tsjechose Republiek (CZ), Estland (EE), Frankrijk (FR), Island (IS), Ierland (IE), Litouwen (LT), Duitsland (DE), Nederland (NL), Spanje (ES).

## Lihtsustatud EÜ vastavusdeklaratsioon

Käesolevaga kinnitab ASUSTek Computer Inc. et seade vastab direktiivi 2014/53/EU olulistele nõuetele ja teiste asjakohaste sätetele. EL vastavusdeklaratsiooni täistekst on saadaval veebisaidil <https://www.asus.com/support/>.

Sagedusvahemikus 5150-5350 MHz töötava WiFi kasutamise on järgmistes riikides lubatud ainult siseruumides:

- Madala võimsusega (LPI) Wi-Fi 6E seadmed:  
Sagedusala 5945 kuni 6425 MHz töötavate seadmete kasutamine on siseruumides piiratud järgmistes riikides: Belgia (BE), Bulgaaria (BG), Küpros (CY), Tšehhi Vabariik (CZ), Eesti (EE), Prantsusmaa (FR), Island (IS), Iirimaa (IE), Leedu (LT), Saksamaa (DE), Holland (NL), Hispaania (ES).
- Väga madala võimsusega (VLP) Wi-Fi 6E seadmed (kantavad seadmed):  
Sagedusala 5945 kuni 6425 MHz töötavate seadmete kasutamine on mehitamata õhusõueteemide (UAS) keelatud järgmistes riikides: Belgia (BE), Bulgaaria (BG), Küpros (CY), Tšehhi Vabariik (CZ), Eesti (EE), Prantsusmaa (FR), Island (IS), Iirimaa (IE), Leedu (LT), Saksamaa (DE), Holland (NL), Hispaania (ES).

## Eurooppa - EYn vaatimustenmukaisuusvakuutus

ASUSTek Computer Inc. ilmoittaa täten, että tämä laite on direktiivin 2014/53/EU olennaisien vaatimusten ja muiden asiaankuuluvien lisäysten mukainen. Koko EYn vaatimustenmukaisuusvakuutuksen teksti on luettavissa osoitteessa <https://www.asus.com/support/>.

5 150 - 5 350 MHz:in taajuudella toimiva WiFi on rajoitettu sisäkäyttöön taukuloissa luetteluissa maissa:

- Pienitehoiset sisäkäyttöön (LPI) Wi-Fi 6E -laitteet/Laite on rajoitettu sisäkäyttöön vain, kun se toimii 5945-6425 MHz taajuusalueella Belgianssa (BE), Bulgariassa (BG), Kyproksella (CY), Tšekin tasavallassa (CZ), Virossa (EE), Ranskassa (FR), Islannissa (IS), Irlannissa (IE), Liettuassa (LT), Saksassa (DE), Alankomissa (NL), Espanjassa (ES).
- Erittäin pienitehoiset (VLP) Wi-Fi 6E -laitteet (kannettavat laitteet):  
Laitetta ei saa käyttää miihitettömättömässä lentokoneajattelmissa (UAS) toimittaessa 5945-6425 MHz taajuusalueella Belgianssa (BE), Bulgariassa (BG), Kyproksella (CY), Tšekin tasavallassa (CZ), Virossa (EE), Ranskassa (FR), Islannissa (IS), Irlannissa (IE), Liettuassa (LT), Saksassa (DE), Alankomissa (NL), Espanjassa (ES).

بیعت از نسخه شده پایانه تحلیف اروپا  
ASUSTek Computer Inc اینجا اعلام می کند که این دستگاه با نیازهای اساسی و سایر مقررات مربوط به پایانه 2014/53/EU مطابقت دارد. متن کامل بیعتی اروپا در این آدرس موجود است: <https://www.asus.com/support/>.

مغزدار 5150-5350 مگاهرتز برای WiFi باید برای استفاده در فضای داخلی ساختمان برای کشور های فهرست شده در جدول، محدود شود.

- دستگاه های Wi-Fi 6E با توان برقی کم (LPI) در فضای در بسته:  
این دستگاه تنها زمانی که در محدوده فرکانس 5945 تا 6425 مگاهرتز در این کشور ها استفاده می شود محدود به کاربرد در فضای در بسته است: بلژیک (BE)، بلغارستان (BG)، قبرس (CY)، جمهوری چک (CZ)، استونی (EE)، فرانسه (FR)، ایسلند (IS)، ایرلند (IE)، لیتوانی (LT)، آلمان (DE)، هلند (NL)، اسپانیا (ES).
- دستگاه های Wi-Fi 6E با توان برقی بسیار کم (VLP) (دستگاه های قابل جابجایی):  
این دستگاه زمانی که در محدوده فرکانس 5945 تا 6425 مگاهرتز کار می کند مجاز به استفاده در سیستم های هوایی بدون نام (UAS) در این کشور ها نیست: بلژیک (BE)، بلغارستان (BG)، قبرس (CY)، جمهوری چک (CZ)، استونی (EE)، فرانسه (FR)، ایسلند (IS)، ایرلند (IE)، لیتوانی (LT)، آلمان (DE)، هلند (NL)، اسپانیا (ES).

## Αποστομμένη Δήλωση Συμμόρφωσης EE

Διά του παρόντος η ASUSTek Computer Inc. δηλώνει ότι αυτή η συσκευή είναι συμμόρφη με τις βασικές προϋποθέσεις και άλλες σχετικές διατάξεις της Οδηγίας 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης της ΕΕ είναι διαθέσιμο στη διεύθυνση <https://www.asus.com/support/>.

To WiFi που λειτουργεί στη ζώνη 5150-5350MHz περιορίζεται για χρήση σε εσωτερικούς χώρους για τις χώρες που αναφέρονται στον παρακάτω πίνακα:

- Συσκευές Wi-Fi 6E χαμηλής ισχύος για εσωτερικούς χώρους (LPI):  
Η συσκευή περιορίζεται σε χρήση σε εσωτερικούς χώρους μόνο όταν λειτουργεί στο εύρος συχνοτήτων 5945 έως 6425 MHz στο Βέλγιο (BE), την Βουλγαρία (BG), την Κύπρο (CY), την Τσεχική Δημοκρατία (CZ), την Εσθονία (EE), την Γαλλία (FR), την Ισπανία (ES), την Ιρλανδία (IE), την Λιθουανία (LT), τη Γερμανία (DE), την Ολλανδία (NL), την Ιταλία (IT) και την Αυστρία (AT).
- Συσκευές Wi-Fi 6E πολύ χαμηλής ισχύος (VLP) (προηρητές συσκευές):  
Η συσκευή δεν επιτρέπεται να χρησιμοποιείται σε μη επιτηρούμενα συστήματα αεροκαρπών (UAS) όταν λειτουργεί στο εύρος συχνοτήτων 5945 έως 6425 MHz στο Βέλγιο (BE), την Βουλγαρία (BG), την Κύπρο (CY), την Τσεχική Δημοκρατία (CZ), την Εσθονία (EE), τη Γαλλία (FR), την Ισπανία (ES), την Ιρλανδία (IE), την Λιθουανία (LT), τη Γερμανία (DE), την Ολλανδία (NL), την Ιταλία (IT) και την Αυστρία (AT).

**הצהרת תמימות רגולטורית מקוצרת עבור האיחוד האירופי**  
ASUSTek Computer Inc. מתירה באתר כי מכשיר זה תואם לדרישות החינוכיות ולשיאר הסעיפים הרלוונטיים של תקנת 2014/53/EU. ניתן לקרוא את הנוסח המלא של הצהרת התמימות הרגולטורית עבור האיחוד האירופי בכתובת: <https://www.asus.com/support/>.

יש להגביל רשתות Wi-Fi הפועלות ברצועת התדרים 5150-5350MHz לשימוש בתוך מבנים סגורים בארצות המפורסות ברשימה הבאה:

- מכשירי Wi-Fi 6E (LPI) לית המספק נמוך (LPI): המכשיר מוגבל לשימוש פנימי בלבד בשימוש בטווח התדרים 5945 עד 6425MHz בבולגיה (BG), בולגריה (BG), קפריסין (CY), צ'כיה (CZ), אסטוניה (EE), צרפת (FR), איטליה (IT), איטליה (IE), ליטא (LT), גרמניה (DE), הולנד (NL), ספרד (ES).
- מכשירי Wi-Fi 6E (VLP) המספק נמוך מאוד (VLP) (מכשירים נידחים): המכשיר אמור לשימוש במבנות של ממוסיל ללא סיס (UAS) בתדרים 5945 עד 6425MHz בבולגיה (BG), בולגריה (BG), קפריסין (CY), צ'כיה (CZ), אסטוניה (EE), צרפת (FR), איטליה (IT), איטליה (IE), ליטא (LT), גרמניה (DE), הולנד (NL), ספרד (ES).

#### Egyszerűsített EU megfeleléségi nyilatkozat

Az ASUSTek Computer Inc. ezennel kijelenti, hogy ez az eszköz megfelel az 2014/53/EU sz. irányelv alapvető követelményeinek és egyéb vonatkozó rendelkezésének. Az EU megfeleléségi nyilatkozat teljes szövegét a következő weboldalon tekintheti meg: <https://www.asus.com/support/>.

Az 5150-5350 MHz-es sávban működő Wi-Fi-t beltéri használatra kell korlátozni az alábbi táblázatban felsorolt országokban:

- Kis fogyasztású beltéri (LPI) Wi-Fi 6E eszközök: A készülék csak beltéri használatra korlátozódik, ha az 5945-6425 MHz-es frekvenciatarományban működik Belgiumban (BE), Bulgáriában (BG), Cipruson (CY), a Cseh Köztársaságban (CZ), Észtországban (EE), Franciaországban (FR), Izlandon (IS), Írországban (IE), Litvánianban (LT), Németországban (DE), Hollandiában (NL), illetve Spanyolországban (ES).
- Nagyon kis fogyasztású (VLP) Wi-Fi 6E eszközök (hordozható eszközök): A készülék nem használható pilóta nélküli légi járműveken (UAS) az 5945-6425 MHz-es frekvenciatarományban Belgiumban (BE), Bulgáriában (BG), Cipruson (CY), a Cseh Köztársaságban (CZ), Észtországban (EE), Franciaországban (FR), Izlandon (IS), Írországban (IE), Litvánianban (LT), Németországban (DE), Hollandiában (NL), illetve Spanyolországban (ES).

#### Pernyataan Kesesuaian EU yang Disederhanakan

ASUSTek Computer Inc. dengan ini menyatakan bahwa perangkat ini memenuhi persyaratan utama dan ketentuan relevan lainnya yang terdapat pada Peraturan 2014/53/EU. Teks lengkap pernyataan kesesuaian EU tersedia di: <https://www.asus.com/support/>.

WiFi yang Beroperasi pada 5150-5350 MHz akan terbatas untuk penggunaan dalam ruangan di negara yang tercantum dalam tabel

- Perangkat Wi-Fi 6E Dalam Ruangannya Rendah (LPI): Perangkat ini dibatasi untuk digunakan di dalam ruangan, hanya jika beroperasi dalam kisaran frekuensi 5945 hingga 6425 MHz di Belgia (BE), Bulgaria (BG), Siprus (CY), Republik Ceko (CZ), Estonia (EE), Prancis (FR), Islandia (IS), Irlandia (IE), Lithuania (LT), Jerman (DE), Belanda (NL), Spanyol (ES).
- Perangkat Wi-Fi 6E Daya Sangat Rendah (VLP): Perangkat ini tidak didizinkan untuk digunakan dalam Sistem Pesawat Tanpa Awak (UAS) jika beroperasi dalam kisaran frekuensi 5945 hingga 6425 MHz di Belgia (BE), Bulgaria (BG), Siprus (CY), Republik Ceko (CZ), Estonia (EE), Prancis (FR), Islandia (IS), Irlandia (IE), Lithuania (LT), Jerman (DE), Belanda (NL), Spanyol (ES).

#### Vienkāršota ES atbilstības paziņojums

ASUSTek Computer Inc. ar šo paziņo, ka šī ierīce atbilst Direktīvas 2014/53/ES būtiskajām prasībām un citiem citiem saistošajiem nosacījumiem. Pilns ES atbilstības paziņojuma teksts pieejams šeit: <https://www.asus.com/support/>.

Wi-Fi darbība 5150–5350 MHz ir jāierobežo lietošanai telpās valstīs, kurās norādītas tālāk.

- Zema enerģijas patēriņa iekārtu (LPI) Wi-Fi 6E ierīces: Ierīce ir paredzēta lietošanai telpās tikai tad, ja tā darbojas 5945 līdz 6425 MHz frekvencu diapazonā Beļģijā (BE), Bulgārijā (BG), Kiprā (CY), Čehijā (CZ), Igaunijā (EE), Francijā (FR), Islandijā (IS), Irājā (IE), Lietuvā (LT), Vācijā (DE), Nīderlandē (NL), Spānijā (ES).
- Ļoti zema enerģijas patēriņa iekārtu (VLP) Wi-Fi 6E ierīces: Ierīci nav atļauts izmantot bezpilota gaisa kuģu sistēmās (UAS), ja tā darbojas 5945 līdz 6425 MHz frekvencu diapazonā Beļģijā (BE), Bulgārijā (BG), Kiprā (CY), Čehijā (CZ), Igaunijā (EE), Francijā (FR), Islandijā (IS), Irājā (IE), Lietuvā (LT), Vācijā (DE), Nīderlandē (NL), Spānijā (ES).

#### Supaprastinta ES atitikties deklaracija

Šiame dokumente pagrindinė „ASUSTek Computer Inc.“ pareiškia, kad šis prietaisas atitinka pagrindinius reikalavimus ir kitas susijusias Direktyvos 2014/53/ES nuostatas. Visas ES atitikties deklaracijos tekstas pateikiamas čia: <https://www.asus.com/support/>.

Toliau nurodytose šalyse „WiFi“ ryšiu, veikiančiu 5 150–5 350 MHz dažniu juostoje, galima naudotis tik patalpose:

- Mažos galios, patalpose naudojami (angl. Low Power Indoor – LPI), „Wi-Fi“ 6E įrenginiai: Šį įrenginį galima naudoti tik patalpose, kai jis veikia 5 945–6 425 MHz dažniu diapazone Belgijoje (BE), Bulgarijoje (BG), Kipre (CY), Čekijoje (CZ), Estijoje (EE), Prancūzijoje (FR), Islandijoje (IS), Airijoje (IE), Lietuvoje (LT), Vokietijoje (DE), Nyderlanduose (NL), Ispanijoje (ES).
- Labai mažos, patalpose naudojami (angl. Very Low Power – VLP), „Wi-Fi“ 6E įrenginiai (nešiojamieji įrenginiai): Šio įrenginio neleidžiama naudoti bepilotoi orlaivių sistemose (UAS), kai jis veikia 5 945–6 425 MHz dažniu diapazone Belgijoje (BE), Bulgarijoje (BG), Kipre (CY), Čekijoje (CZ), Estijoje (EE), Prancūzijoje (FR), Islandijoje (IS), Airijoje (IE), Lietuvoje (LT), Vokietijoje (DE), Nyderlanduose (NL), Ispanijoje (ES).

#### Forenklet EU-samsvarerklaring

ASUSTek Computer Inc. erklærer herved at denne enheten er i samsvar med hovedsaklige krav og andre relevante forskrifter i direktivet 2014/53/EU. Fullstendig tekst for EU-samsvarerklæring finnes på: <https://www.asus.com/support/>.

Wi-Fi-området 5150–5350 MHz skal begrenses til innendørs bruk for landene som er oppført i tabellen:

- Lavstrøms innendørs (LPI) Wi-Fi 6E-enheter: Enheten er begrenset til kun innendørs bruk når den brukes i frekvensområdet 5945 til 6425 MHz i Belgia (BE), Bulgaria (BG), Kypros (CY), Tsjekia (CZ), Estland (EE), Frankrike (FR), Island (IS), Irland (IE), Litauen (LT), Tyskland (DE), Nederland (NL) og Spania (ES).
- Veldig lavstrøms (VLP) Wi-Fi 6E-enheter (bærbare enheter): Enheten får ikke brukes på ubemannede flysystemer (UAS) når den brukes i frekvensområdet 5945 til 6425 MHz i Belgia (BE), Bulgaria (BG), Kypros (CY), Tsjekia (CZ), Estland (EE), Frankrike (FR), Island (IS), Irland (IE), Litauen (LT), Tyskland (DE), Nederland (NL) og Spania (ES).

#### Uproszczone deklaracja zgodności UE

Firma ASUSTek Computer Inc. niniejszym oświadcza, że urządzenie to jest zgodne z zasadniczymi wymogami i innymi właściwościami postanowieniami dyrektywy 2014/53/EU. Pełny tekst deklaracji zgodności UE jest dostępny pod adresem <https://www.asus.com/support/>.

W krajach wymienionych w tabeli działanie sieci Wi-Fi w paśmie 5150–5350 MHz powinno być ograniczone wyłącznie do pomieszczeń:

- Urządzenia Wi-Fi 6E o niskim poziomie mocy w pomieszczeniach (LPI): W Belgii (BE), Bulgarii (BG), Cyprze (CY), Czechach (CZ), Estonii (EE), Francji (FR), Islandii (IS), Irlandii (IE), Litwie (LT), Niemczech (DE), Holandii (NL) i Hiszpanii (ES) działanie urządzenia w zakresie częstotliwości od 5945 do 6425 MHz jest ograniczone do użytku wewnątrz pomieszczeń.
- Urządzenia Wi-Fi 6E o bardzo niskim poziomie mocy (VLP) (urządzenia przenośne): W Belgii (BE), Bulgarii (BG), Cyprze (CY), Czechach (CZ), Estonii (EE), Francji (FR), Islandii (IS), Irlandii (IE), Litwie (LT), Niemczech (DE), Holandii (NL) i Hiszpanii (ES) urządzenie działające w zakresie częstotliwości od 5945 do 6425 MHz nie może być używane w bezzałogowych systemach latających (UAS).

#### Declaración de Conformidad Simplificada de UE

A ASUSTek Computer Inc. declara que este dispositivo está en conformidad con los requisitos esenciales y otras disposiciones relevantes de la Directiva 2014/53/UE. O texto integral de la declaración de conformidad de UE está disponible en <https://www.asus.com/support/>.

A utilização das frequências WiFi de 5150 a 5350MHz está restrita a ambientes interiores nos países apresentados na tabela:

- Dispositivos Wi-Fi 6E de interior de baixa potência (LPI): O dispositivo restringe-se à utilização em locais interiores apenas quando funcionar na gama de frequências de 5945 a 6425 MHz na Bélgica (BE), Bulgária (BG), Chipre (CY), República Checa (CZ), Estónia (EE), França (FR), Islândia (IS), Irlanda (IE), Lituânia (LT), Alemanha (DE), Países Baixos (NL), Espanha (ES).
- Dispositivos Wi-Fi 6E de muito baixa potência (VLP) (dispositivos portáteis): Não é permitida a utilização do dispositivo em veículos aéreos não tripulados (UAS) quando o mesmo funcionar na gama de frequências de 5945 a 6425 MHz na Bélgica (BE), Bulgária (BG), Chipre (CY), República Checa (CZ), Estónia (EE), França (FR), Islândia (IS), Irlanda (IE), Lituânia (LT), Alemanha (DE), Países Baixos (NL), Espanha (ES).

### Declaratie de conformitate UE, versiune simplificată

Prin prezenta, ASUSTek Computer Inc. declară că acest dispozitiv este în conformitate cu regulamentele esențiale și cu celelalte prevederi relevante ale Directivei 2014/53/EU. Textul complet al declarației de conformitate UE este disponibil la adresa <https://www.asus.com/support/>.

Pentru țările listate în tabelul de mai jos, rețelele WiFi care funcționează în banda de frecvență de 5.150-5.350 MHz trebuie utilizate doar în interior:

- Dispozitive Wi-Fi 6E cu consum redus de energie pentru interior (LPI): Dispozitivele este restricționat pentru utilizare exclusivă în interior atunci când funcționează în gama de frecvențe de la 5945 la 6425 MHz în Belgia (BE), Bulgaria (BG), Cipru (CY), Republica Cehă (CZ), Estonia (EE), Franța (FR), Islanda (IS), Irlanda (IE), Lituania (LT), Germania (DE), Țările de Jos (NL), Spania (ES).
- Dispozitive Wi-Fi 6E de foarte mică putere (VLP) (dispozitive portabile): Nu este permisă utilizarea dispozitivelor pe sisteme de aeronave fără pilot la bord (UAS) atunci când funcționează în gama de frecvențe 5945-6425 MHz în Belgia (BE), Bulgaria (BG), Cipru (CY), Republica Cehă (CZ), Estonia (EE), Franța (FR), Islanda (IS), Irlanda (IE), Lituania (LT), Germania (DE), Țările de Jos (NL), Spania (ES).

### Pejednostavljena Deklaracija o usaglasnosti EU

ASUSTek Computer Inc. ovim izjavljuje da je ovaj uređaj usaglasan sa osnovnim zahtevima i drugim relevantnim odredbama Direktive 2014/53/EU. Ceo tekst Deklaracije o usaglasnosti EU dostupan je na lokaciji <https://www.asus.com/support/>.

WiFi koji radi u frekventnom opsegu od 5150 MHz do 5350 MHz ograničen je isključivo na upotrebu u zatvorenom prostoru za zemlje navedene u tabeli ispod:

- Wi-Fi 6E uređaji s niskom potrošnjom za zatvoren prostor (LPI): Ovakv uređaj je ograničen na upotrebu samo u zatvorenom prostoru kada radi u frekventnom opsegu od 5945 do 6425 MHz u Belgiji (BE), Bugarskoj (BG), Kipru (CY), Češkoj Republici (CZ), Estoniji (EE), Francuskoj (FR), Islandu (IS), Irskoj (IE), Litvaniji (LT), Nemačkoj (DE), Holandiji (NL), Španiji (ES).
- Wi-Fi 6E uređaji s veoma niskom potrošnjom (VLP) (prenosivi uređaji): Nije dozvoljeno da se ovaj uređaj koristi na sistemima bespilotnih letelica (UAS) kada radi u frekventnom opsegu od 5945 do 6425 MHz u Belgiji (BE), Bugarskoj (BG), Kipru (CY), Češkoj Republici (CZ), Estoniji (EE), Francuskoj (FR), Islandu (IS), Irskoj (IE), Litvaniji (LT), Nemačkoj (DE), Holandiji (NL), Španiji (ES).

### Zjednodušené vyhlásenie o zhode podľa pre EU

Spoločnosť ASUSTek Computer Inc. týmto vyhlasuje, že toto zariadenie je v súlade so základnými požiadavkami a ďalšími príslušnými ustanoveniami smernice č. 2014/53/EÚ. Plné znenie vyhlásenia o zhode pre EÚ je k dispozícii na lokalite <https://www.asus.com/support/>.

Činnosť WiFi v pásme 5150 - 5350 MHz bude obmedzená na použitie vo vnútornom prostredí pre krajiny uvedené v tabuľke nižšie:

- Zariadenia s Wi-Fi 6E s nízkym výkonom určené do vnútorného prostredia (LPI): Toto zariadenie je obmedzené len na použitie vo vnútornom prostredí pri prevádzke vo frekvenčnom pásme 5945 až 6425 MHz v Belgicku (BE), Bulharsku (BG), na Cypre (CY), v Českej republike (CZ), Estónsku (EE), vo Francúzsku (FR), na Islande (IS), v Írsku (IE), Litve (LT), Nemecku (DE), Holandsku (NL), Španielsku (ES).
- Zariadenia s Wi-Fi 6E s veľmi nízkym výkonom (VLP) (prenosné zariadenia): Toto zariadenie sa nesmie používať v bezpilotných leteckých systémoch (UAS) pri prevádzke vo frekvenčnom pásme 5945 až 6425 MHz v Belgicku (BE), Bulharsku (BG), na Cypre (CY), v Českej republike (CZ), Estónsku (EE), vo Francúzsku (FR), na Islande (IS), v Írsku (IE), Litve (LT), Nemecku (DE), Holandsku (NL), Španielsku (ES).

### Poenostavljena izjava EU o skladnosti

ASUSTek Computer Inc. tukaj izjavlja, da je ta naprava skladna s temeljnimi zahtevami in drugimi relevantnimi določili Direktive 2014/53/EU. Polno besedilo izjave EU o skladnosti je na voljo na <https://www.asus.com/support/>.

WiFi, ki deluje v pasovnem območju 5150-5350 MHz, mora biti v državah, navedenih v spodnjem seznamu, omejen na notranjo uporabo:

- Notranje naprave z nizko močjo (LPI) Wi-Fi 6E: Naprava je omejena na uporabo v zaprtih prostorih, kadar deluje v frekvenčnem območju 5945 do 6425 MHz v Belgiji (BE), Bolgariji (BG), na Cipru (CY), Češkem (CZ), v Estoniji (EE), Franciji (FR), na Islandiji (IS), Irskem (IE), v Litvi (LT), Nemčiji (DE), na Nizozemskem (NL), v Španiji (ES).
- Naprave z zelo nizko močjo (VLP) Wi-Fi 6E (prenosne naprave): Naprave ni dovoljeno uporabljati v sistemih brezpilotnih zrakoplovov (UAS), kadar delujejo v frekvenčnem območju 5945 do 6425 MHz v Belgiji (BE), Bolgariji (BG), na Cipru (CY), Češkem (CZ), v Estoniji (EE), Franciji (FR), na Islandiji (IS), Irskem (IE), v Litvi (LT), Nemčiji (DE), na Nizozemskem (NL), v Španiji (ES).

### Declaración de conformidad simplificada para la UE

Por la presente, ASUSTek Computer Inc. declara que este dispositivo cumple los requisitos básicos y otras disposiciones pertinentes de la directiva 2014/53/EU. En <https://www.asus.com/support/> está disponible el texto completo de la declaración de conformidad para la UE.

La conexión WiFi con una frecuencia de funcionamiento de 5150-5350 MHz se restringirá al uso en interiores para los países enumerados en la tabla:

- Dispositivos con Wi-Fi 6E de baja potencia para interiores (LPI): El dispositivo está restringido al uso en interiores únicamente cuando funciona en el intervalo de frecuencias de 5945 a 6425 MHz en Bélgica (BE), Bulgaria (BG), Chipre (CY), República Checa (CZ), Estonia (EE), Francia (FR), Islandia (IS), Irlanda (IE), Lituania (LT), Alemania (DE), Países Bajos (NL) y España (ES).
- Dispositivos con Wi-Fi 6E de muy baja potencia (VLP) (dispositivos portátiles): No está permitido usar el dispositivo en sistemas de aeronaves no tripuladas cuando funciona en el intervalo de frecuencias de 5945 a 6425 MHz en Bélgica (BE), Bulgaria (BG), Chipre (CY), República Checa (CZ), Estonia (EE), Francia (FR), Islandia (IS), Irlanda (IE), Lituania (LT), Alemania (DE), Países Bajos (NL) y España (ES).

### Förenklad EU-försäkran om överensstämmelse

ASUSTek Computer Inc. deklarerar härmed att denna enhet överensstämmer med de grundläggande kraven och andra relevanta bestämmelser i direktiv 2014/53/EU. Fullständig text av EU-försäkran om överensstämmelse finns på <https://www.asus.com/support/>.

WiFi som används 5150-5350 MHz kommer att begränsas för användning inomhus i de länder som anges i tabellen:

- Wi-Fi 6E-enheter med låg effekt inomhus (LPI): Enheten är begränsad till användning inomhus enbart när den används 5945 till 6425 MHz frekvensband i Belgien (BE), Bulgarien (BG), Cypern (CY), Tjeckien (CZ), Estland (EE), Frankrike (FR), Island (IS), Irland (IE), Litauen (LT), Tyskland (DE), Nederländerna (NL), Spanien (ES).
- Wi-Fi 6E-enheter med mycket låg effekt (VLP) (bärbara enheter): Enheten får inte användas på obemannade luftfartyg (UAS) när den används 5945 till 6425 MHz frekvensband i Belgien (BE), Bulgarien (BG), Cypern (CY), Tjeckien (CZ), Estland (EE), Frankrike (FR), Island (IS), Irland (IE), Litauen (LT), Tyskland (DE), Nederländerna (NL), Spanien (ES).

### ประกาศเกี่ยวกับความสอดคล้องของสหภาพยุโรปแบบย่อ

ASUSTek Computer Inc. ขอประกาศในที่นี้ว่าอุปกรณ์นี้มีความสอดคล้องกับ

ข้อกำหนดที่เป็นบังคับของสหภาพยุโรป หมายเลข 1 ของแบบร่างผู้ชี้มาตรฐาน 2014/53/EU เกี่ยวกับการมีคุณสมบัติของประกาศความสอดคล้องกัน EU มีอยู่ที่ <https://www.asus.com/support/>

การใช้งานของ WiFi ที่ 5150-5350MHz ถูกจำกัดให้ใช้ในอาคารสำหรับประเภทที่แสดงในตาราง

- อุปกรณ์ในอาคารพลังงานต่ำ (LPI) Wi-Fi 6E: อุปกรณ์นี้จำกัดให้ใช้เฉพาะภายในอาคารเท่านั้น เมื่อใช้งานที่ช่วงความถี่ 5945 ถึง 6425 MHz ในเบลเยียม (BE), บัลแกเรีย (BG), ไซปรัส (CY), สาธารณรัฐเช็ก (CZ), เอสโตเนีย (EE), ฝรั่งเศส (FR), ไอซ์แลนด์ (IS), ไอร์แลนด์ (IE), ลิทัวเนีย (LT), เยอรมนี (DE), เนเธอร์แลนด์ (NL), สเปน (ES)
- อุปกรณ์พลังงานต่ำมาก (VLP) Wi-Fi 6E (อุปกรณ์พกพา): โดรนอากาศยานไร้คนขับที่บินตามอากาศยานไร้คนขับ (UAS) เมื่อใช้งานที่ช่วงความถี่ 5945 ถึง 6425 MHz ในเบลเยียม (BE), บัลแกเรีย (BG), ไซปรัส (CY), สาธารณรัฐเช็ก (CZ), เอสโตเนีย (EE), ฝรั่งเศส (FR), ไอซ์แลนด์ (IS), ไอร์แลนด์ (IE), ลิทัวเนีย (LT), เยอรมนี (DE), เนเธอร์แลนด์ (NL), สเปน (ES)

### Bastheittilimys AB Uyumlilik Bildirimi

ASUSTek Computer Inc. bu aygıtın 2014/53/EU Yönergesinin temel gereksinimlerine ve diğer ilgili hükümlerine uygun olduğunu bildirir. AB uygunluk bildirimini tam metni şu adreste bulabilirsiniz: <https://www.asus.com/support/>.

5150-5350 MHz aralısındaki WiFi kullanımı, tabloda listelenen ülkeler için iç mekân kullanımıyla kısıtlanacaktır.

- Düşük Güç İç Mekan (LPI) Wi-Fi 6E cihazlar: Belgika (BE), Bulgaristan (BG), Kıbrıs (CY), Gek Cumhuriyeti (CZ), Estonya (EE), Fransa (FR), İzlanda (IS), İrlanda (IE), Litvanya (LT), Almanya (DE), Hollanda (NL), İspanya (ES) 5945 ila 6425 MHz frekans aralığında çalışırken cihaz yalnızca iç mekânda kullanım ile sınırlanmaktadır.
- Çok Düşük Güç (VLP) Wi-Fi 6E cihazlar (taşınabilir cihazlar): Belgika (BE), Bulgaristan (BG), Kıbrıs (CY), Gek Cumhuriyeti (CZ), Estonya (EE), Fransa (FR), İzlanda (IS), İrlanda (IE), Litvanya (LT), Almanya (DE), Hollanda (NL), İspanya (ES) 5945 ila 6425 MHz frekans aralığında çalışırken cihazın İnsansız Hava Aracı Sistemleri (UAS)'ta kullanımı iznili değildir.

**Спрошена декларація про відповідність нормам ЄС**

ASUSTek Computer Inc. заявляє, що цей пристрій відповідає основним вимогам та іншим відповідним вимогам Директиви 2014 / 53 / EU. Повний текст декларації відповідності нормам ЄС доступний на <https://www.asus.com/support/>.

Робота Wi-Fi на частоті 5150-5350 МГц обмежується використанням у приміщенні для країн, поданих у таблиці нижче:

- a. Пристрої низької потужності для приміщень (LPI) Wi-Fi 6E:  
Використання пристрою обмежено лише приміщеннями із діапазоном частот від 5945 МГц до 6425 МГц у Бельгії (BE), Болгарії (BG), на Кіпрі (CY), у Чеській Республіці (CZ), Естонії (EE), Франції (FR), Ісландії (IS), Ірландії (IE), Литві (LT), Німеччині (DE), Нідерландах (NL), Іспанії (ES).
- b. Пристрої дуже низької потужності (VLP) Wi-Fi 6E (портативні пристрої):  
Використання пристрою не дозволено на безпілотних літальних апаратах (UAS) із діапазоном частот від 5945 МГц до 6425 МГц у Бельгії (BE), Болгарії (BG), на Кіпрі (CY), у Чеській Республіці (CZ), Естонії (EE), Франції (FR), Ісландії (IS), Ірландії (IE), Литві (LT), Німеччині (DE), Нідерландах (NL), Іспанії (ES).



|    |    |    |    |        |    |    |
|----|----|----|----|--------|----|----|
| AT | BE | BG | CZ | DK     | EE | FR |
| DE | IS | IE | IT | EL     | ES | CY |
| LV | LI | LT | LU | HU     | MT | NL |
| NO | PL | PT | RO | SI     | SK | TR |
| FI | SE | CH | HR | UK(NI) |    |    |

**CE RED RF Output table (Directive 2014/53/EU)**

Intel® Wi-Fi 6E AX4111 (Model: AX4111NGW):

| Function  | Frequency       | Maximum Output Power (EIRP) |
|-----------|-----------------|-----------------------------|
| WiFi      | 2412 - 2472 MHz | 20 dBm                      |
|           | 5150 - 5350 MHz | 20 dBm                      |
|           | 5470 - 5725 MHz | 19 dBm                      |
|           | 5725 - 5850 MHz | 11 dBm                      |
|           | 5945 - 6425 MHz | 21 dBm                      |
| Bluetooth | 2402 - 2480 MHz | 13 dBm                      |

\* Receiver category 1

ASUS V-M.2 NVMe WiFi CARD/INTEL AX4111 Wi-Fi 6E module with Bluetooth 5.2

Contains Model: AX4111NGW

FCC ID: PD2AX411NG  
CMIIT ID: 2022A17573(M)  
IC: 10008-A4X411NG  
ANATEL: 120702-1-04423

TA-0010241

APPROVED

Complies with IMDA Standards DB103778

UK CA

003-210221 D210157003

CCA421Y10760T0 R-C-INT-AX411NGW

# Warranty

## EN: ASUS Guarantee Information

- ASUS offers a voluntary manufacturer's Commercial Guarantee.
- ASUS reserves the right to interpret the provisions of the ASUS Commercial Guarantee.
- This ASUS Commercial Guarantee is provided independently and in addition to the statutory Legal Guarantee and in no way affects or limits the rights under the Legal Guarantee.

For all the guarantee information, please visit <https://www.asus.com/support>.

## FR: Garantie ASUS

- ASUS fournit une garantie commerciale en tant que garantie volontaire du fabricant.
- ASUS se réserve le droit d'interpréter et de clarifier les informations relatives à la garantie commerciale ASUS.
- Cette garantie commerciale ASUS est fournie indépendamment et parallèlement à la garantie légale, elle n'affecte ou ne limite d'aucune façon les droits acquis par la garantie légale.

Pour plus d'informations sur la garantie, consultez le site <https://www.asus.com/fr/support/>.

## G: ASUS Garantieinformation

- ASUS bietet eine freiwillige Warengarantie des Herstellers an.
- ASUS behält sich das Recht zur Auslegung der Bestimmungen in der ASUS Warengarantie vor.
- Diese ASUS Warengarantie wird unabhängig und zusätzlich zur rechtsmäßigen gesetzlichen Garantie gewährt und beeinträchtigt oder beschränkt in keiner Weise die Rechte aus der gesetzlichen Garantie.

Die vollständigen Garantieinformationen finden Sie unter <https://www.asus.com/de/support/>.

## I: Informativa sulla Garanzia ASUS

- ASUS offre una Garanzia Commerciale volontaria del produttore.
- ASUS si riserva il diritto di interpretare le disposizioni della Garanzia Commerciale ASUS.
- La presente Garanzia Commerciale ASUS viene fornita in modo indipendente e in aggiunta alla Garanzia Legale prevista per legge e non pregiudica o limita in alcun modo i diritti previsti dalla Garanzia Legale.

Per tutte le informazioni sulla garanzia, visitare <https://www.asus.com/it/support>.

## R: Информация о гарантии ASUS

- ASUS предлагает добровольную гарантию от производителя.
- ASUS оставляет за собой право интерпретирования положений гарантии ASUS.
- Настоящая гарантия ASUS никоим образом не ограничивает Ваши права, предусмотренные локальным законодательством.

Для получения полной информации о гарантии посетите <https://www.asus.com/ru/support/>.

## DA: ASUS garantioplysninger

- ASUS tilbyder en valgfri handelsmæssig garanti.
- ASUS forbeholder sig retten til at fortolke bestemmelserne i ASUS' handelsmæssige garanti.
- Denne handelsmæssige garanti fra ASUS tilbydes uafhængigt, som en tilføjelse til den lovbestemte juridiske garanti og den påvirker eller begrænser på ingen måde rettighederne i den juridiske garanti.

Alle garantioplysningerne kan findes på <https://www.asus.com/dk/support/>.

## BG: Информация за гаранцията от ASUS

- ASUS предлага доброволна търговска гаранция от производителя.
- ASUS си запазва правото да тълкува условията на търговската гаранция на ASUS.
- Тази търговска гаранция на ASUS се предлага независимо от и в допълнение на законната гаранция. Тя по никакъв начин не оказва влияние върху правата на потребителя в законната гаранция и по никакъв начин не ги ограничава.

За цялостна информация относно гаранцията, моля, посетете <https://www.asus.com/bg/support>.

## CZ: Informace o záruce společnosti ASUS

- Společnost ASUS nabízí dobrovolnou komerční záruku výrobce.
- Společnost ASUS si vyhrazuje právo vykládat ustanovení komerční záruky společnosti ASUS.
- Tato komerční záruka společnosti ASUS je poskytována nezávisle a jako doplněk zákonné záruky a žádným způsobem neovlivňuje ani neomezuje práva vyplývající ze zákonné záruky.

Všechny informace o záruce najdete na adrese <https://www.asus.com/cz/support/>.

## CR: Informacije o ASUS jamstvu

- ASUS dragovaljno nudi komercijalno proizvođačko jamstvo.
- ASUS zadržava prava na tumačenje odredbi ASUS komercijalnog jamstva.
- Ovo ASUS komercijalno jamstvo daje se neovisno i kao dodatak zakonskom jamstvu i ni na koji način ne ograničuje prava iz okvira zakonskog jamstva.

Sve informacije o jamstvu potražite na <https://www.asus.com/support>.

## DU: ASUS-garantie-informatie

- SUS biedt een vrijwillige commerciële garantie van de fabrikant.
- ASUS behoudt zich het recht voor om de bepalingen van de commerciële garantie van ASUS uit te leggen.
- Deze commerciële garantie van ASUS wordt onafhankelijk en als aanvulling op de statutaire Wettelijke garantie geboden en beïnvloedt of beperkt in geen geval de rechten onder de wettelijke garantie.

Voor alle informatie over de garantie, gaat u naar <https://www.asus.com/nl/support/>.

## EE: Teave ASUS-e garantii kohta

- ASUS pakub vabatahtlikku tasulist tootjagarantiid.
- ASUS jätab endale õiguse tõlgendada ASUS-e tasulise garanti tingimusi.
- See ASUS-e tasuline garanti on sõltumatu lisagaranti seadusega kehtestatud garantiile ega mõjuta mingil määral seadusega kehtestatud garantiid ning seadusega kehtestatud garanti piiranguid.

Vaadake garantiita seotud teavet veebisaidil <https://www.asus.com/ee/>.

## GK: Πληροφορίες εγγύησης ASUS

- Η ASUS προσφέρει μια εθελοντική Εμπορική εγγύηση κατασκευαστή.
- Η ASUS διατηρεί το δικαίωμα ερμηνείας των διατάξεων της Εμπορικής εγγύησης ASUS.
- Αυτή η Εμπορική εγγύηση ASUS παρέχεται ανεξάρτητα και επιπροσθέτως της θεσμικής Νομικής εγγύησης και σε καμία περίπτωση δεν επηρεάζει ή περιορίζει τα δικαιώματα βάσει της Νομικής εγγύησης.

Για όλες τις πληροφορίες εγγύησης, επισκεφθείτε τη διεύθυνση <https://www.asus.com/gr/el/>.

## HUG: ASUS garanciális információk

- Az ASUS önkéntes gyártói kereskedelmi garanciát kínál.
- Az ASUS fenntartja magának a jogot, hogy értelmezze az ASUS kereskedelmi garanciára vonatkozó rendelkezéseket.
- Ezt a kereskedelmi garanciát az ASUS függetlenül és a törvényes garancia mellett nyújtja és semmilyen módon nem befolyásolja, vagy korlátozza a jogi garancia nyújtotta jogokat.

A garanciára vonatkozó teljes körű információkért látogasson el a <https://www.asus.com/hu/support/oldala>.

## LV: ASUS garantijas informācija

- ASUS piedāvā brīvprātīgu ražotāja komerciālo garantiju.
- ASUS patur tiesības interpretēt ASUS komerciālās garantijas noteikumus.
- Šī ASUS komerciālā garantija tiek piedāvāta neatkarīgi un papildus likumā noteiktajai juridiskajai garantijai, un tā nekādā neietekmē vai neierobežo juridiskajai garantijai noteiktās tiesības.

Lai iegūtu informāciju par garantiju, apmeklējiet vietni <https://www.asus.com/lv/>.

## LT: Informacija apie ASUS garantiją

- ASUS siūlo savanorišką komercinę gamintojo garantiją.
- ASUS pasilieka teisę savo nuostatais aiškinti šios komercinės ASUS garantijos nuostatas.
- Ši komercinė ASUS garantija suteikiama nepriklausoma, be įstatyminės teisinės garantijos, ir jokiu būdu nepaveikia ar neapriboja teisinės garantijos suteikiamų teisių.

Norėdami gauti visą informaciją apie garantiją, apsilankykite <https://www.asus.com/lt/>.

## PL: Informacje o gwarancji firmy ASUS

- Firma ASUS oferuje dobrowolną gwarancję handlową producenta.
- Firma ASUS zastrzega sobie prawo do interpretacji warunków gwarancji handlowej firmy ASUS.
- Niniejsza gwarancja handlowa firmy ASUS jest udzielana niezależnie, jako dodatek do wymaganej ustawowo gwarancji prawnej i w żaden sposób nie wpływa na prawa przysługujące na mocy gwarancji prawnej ani ich nie ogranicza.

Wszelkie informacje na temat gwarancji można znaleźć na stronie <https://www.asus.com/pl/support>.

**PG: Informações de Garantia ASUS**

- A ASUS oferece uma Garantia Comercial voluntária do fabricante.
- A ASUS reserva o direito de interpretar as disposições da Garantia Comercial da ASUS.
- Esta Garantia Comercial da ASUS é fornecida de forma independente além da Garantia Legal estatutária e não afeta nem limita de qualquer forma os direitos estabelecidos na Garantia Legal.

Para consultar todas as informações sobre a garantia, visite <https://www.asus.com/pt/support/>.

**RO: Informații despre garanția ASUS**

- ASUS oferă o garanție comercială voluntară a producătorului.
- ASUS își rezervă dreptul de a interpreta prevederile garanției comerciale ASUS.
- Această garanție comercială ASUS este oferită independent și în plus față de garanția obligatorie legală și nu afectează sau limitează în niciun fel drepturile acordate conform garanției legale.

Pentru toate informațiile legate de garanție, vizitați <https://www.asus.com/ro/support>.

**SL: Informacije o garanciji ASUS**

- ASUS ponuja prostovoljno tržno garancijo proizvajalca.
- ASUS si pridružuje pravico do razlage določb tržne garancije družbe ASUS.
- Ta tržna garancija družbe ASUS je na voljo neodvisno in kot dodatek zakonsko predpisani pravni garanciji ter na noben način ne vpliva na pravice, ki jih zagotavlja pravna garancija, oziroma jih omejuje.

Vse informacije o garanciji najdete na spletnem mestu

<https://www.asus.com/support>.

**SK: Informácie o záruke ASUS**

- ASUS ponúka dobrovoľnú obchodnú záruku výrobcu.
- ASUS si vyhradzuje právo interpretovať ustanovenia obchodnej záruky ASUS.
- Táto obchodná záruka ASUS je poskytnutá nezávisle a navyše k zákonnej záruke a v žiadnom prípade neovplyvňuje ani neobmedzuje tieto práva podľa tejto zákonnej záruky.

Všetky další informace o záruce najdete na <https://www.asus.com/sk/support>.

**ES: Información de garantía de ASUS**

- ASUS ofrece una garantía comercial voluntaria del fabricante.
- ASUS se reserva el derecho de interpretar las disposiciones de esta garantía comercial de ASUS.
- Esta garantía comercial de ASUS se proporciona de forma independiente y adicional a la garantía estatutaria y de ninguna manera afecta a los derechos bajo la garantía legal ni los limita.

Para obtener toda la información sobre la garantía, visite

<https://www.asus.com/ES/support/>.

**TR: ASUS Garanti Bilgileri**

- ASUS, gönüllü olarak üretici Ticari Garantisi sunar.
- ASUS, ASUS Ticari Garantisinin hükümlerini yorumlama hakkını saklı tutar.
- Bu ASUS Ticari Garantisi, bağımsız olarak ve hukuki Yasal Garanti'ye ek olarak sağlanır ve hiçbir şekilde Yasal Garanti kapsamındaki hakları etkilemez veya sınırlamaz.

Tüm garanti bilgileri için lütfen <https://www.asus.com/tr/support> adresini ziyaret edin.

**FI: ASUS-takuutiedot**

- ASUS tarjoaa vapaaehtoisena valmistajan kaupallisen takuun.
- ASUS pidättää oikeuden tulkita ASUS-kaupallisen takuun ehdot.
- Tämä ASUS-kaupallinen takuu tarjotaan itsenäisesti lakisääteisen oikeudellisen takuun lisäksi eikä se vaikuta millään tavoin laillisen takuun oikeuksiin tai rajoihin.

Saadaksesi kaikki takuutiedot, siirry osoitteeseen

<https://www.asus.com/fi/support>.

**NW: Informasjon om ASUS-garanti**

- ASUS tilbyr som produsent en frivillig kommersiell garanti.
- ASUS forbeholder seg retten til å tolke bestemmelsene i ASUS sin kommersielle garanti.
- ASUS sin kommersielle garanti gis uavhengig og i tillegg til den lovbestemte juridiske garantien, og verken påvirker eller begrenser rettighetene under den juridiske garantien på noen måte.

Du finner fullstendig informasjon om garanti på

<https://www.asus.com/no/support/>.

**SB: Informacije o ASUS garanciji**

- ASUS nudi dobrovoljnu proizvođačku komercijalnu garanciju.
- ASUS zadržava pravo da tumači odredbe svoje ASUS komercijalne garancije.
- Ova ASUS komercijalna garancija daje se nezavisno, kao dodatak zakonskoj pravnoj garanciji, i ni ka koji način ne utiče na i ne ograničava prava data pravnom garancijom.

Za sve informacije o garanciji, posetite

<https://www.asus.com/support/>.

**SW: ASUS garantiinformation**

- ASUS erbjuder en frivillig kommersiell tillverkningsgaranti.
- ASUS förbehåller sig rätten att tolka bestämmelserna i ASUS kommersiella garanti.
- Denna kommersiella garanti från ASUS tillhandahålls separat och som tillägg till den lagstadgade garantin, och påverkar eller begränsar på intet sätt rättheterna under den lagstadgade garantin.

För all garantiinformation, besök <https://www.asus.com/se/support/>.

**UA: Інформація про Гарантію ASUS**

- ASUS пропонує добровільну Комерційну Гарантію виробника.
- ASUS застерігає за собою право тлумачити положення Комерційної Гарантії ASUS
- Цю Комерційну Гарантію надано незалежно і на додаток до обов'язкової Законової Гарантії; вона жодним чином не впливає на права за Законовою Гарантією і не обмежує їх.

Всі інформацію про гарантію подано тут:

<https://www.asus.com/ua/support>.

**MX: Garantía y Soporte**

Esta Garantía aplica en el país de compra. Usted acepta que en esta garantía:

- Los procedimientos de servicio pueden variar en función del país.
- Algunos servicios y/o piezas de reemplazo pudieran no estar disponibles en todos los países.
- Algunos países pueden tener tarifas y restricciones que se apliquen en el momento de realizar el servicio, visite el sitio de soporte de ASUS en <https://www.asus.com/mx/support/> para ver más detalles.
- Si tiene alguna queja o necesidad de un centro de reparación local o el periodo de garantía del producto ASUS, por favor visite el sitio de Soporte de ASUS en <https://www.asus.com/mx/support/> para mayores detalles.

**Información de contacto ASUS**

Esta garantía está respaldada por: ASUSTek Computer Inc. Centro de Atención ASUS +52 (55) 1946-3663

**BP: Informações de garantia ASUS**

Esta garantía aplica-se ao período definido pela garantia legal (90 dias) mais o período de garantia comercial oferecido pela ASUS. Por exemplo: 12M significa 12 meses de garantia no total (3 meses de garantia legal mais 9 meses de garantia contratual), 24 meses significa 24 meses de garantia no total (3 meses de garantia legal mais 21 meses de garantia contratual) e 36 meses significa 36 meses de garantia no total (3 meses de garantia legal e 33 de garantia contratual) a contar da data da garantia declarada (Data de Início da Garantia).

Para todas as informações de garantia, visite

<https://www.asus.com/br/support/>.

**ID: Informasi Garansi ASUS**

Garansi ini berlaku di negara tempat pembelian.

Periode Garansi tertera pada kemasan/kotak dari Produk dan Masa Garansi dimulai sejak tanggal pembelian Produk ASUS dengan kondisi baru.

Silahkan pinдай Kode QR di bagian bawah halaman terakhir untuk Kartu Garansi versi Web dalam format PDF untuk lebih informasi jelas mengenai jaminan garansi Produk ASUS.

- Informasi Dukungan ASUS, silakan kunjungi <https://www.asus.com/id/support>.
- Informasi Lokasi Layanan, silakan kunjungi <https://www.asus.com/id/support/Service-Center/Indonesia>.
- Layanan Call Center: 1500128

**VI: Thông tin đảm bảo của ASUS**

- ASUS cung cấp Bảo hành thương mại tự nguyện của nhà sản xuất.
- ASUS bảo lưu quyền giải thích các điều khoản của Bảo hành thương mại của ASUS.
- Bảo hành thương mại này của ASUS được cung cấp độc lập và ngoài Bảo đảm pháp lý theo luật định và không có cách nào ảnh hưởng đến hoặc giới hạn các quyền theo Bảo lãnh pháp lý. Để biết tất cả các thông tin bảo hành, vui lòng truy cập

<https://www.asus.com/vn/support>



## ASUS contact information

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### **ASUS COMPUTER INTERNATIONAL (America)**

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### **ASUSTeK (UK) LIMITED**

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## Service and Support

Visit our multi-language website at <https://www.asus.com/support>.

