

# ROG MAXIMUS Z790 FORMULA

**ASUS**

# Motherboard

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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 10°C and 35°C.

## Button/Coin Batteries Safety Information



|                                                                                                                                                                                                                                                                                                                     |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  <b>WARNING</b><br><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 includes descriptions for each part of the motherboard.
- **Chapter 2: Basic Setup**  
This chapter lists the basic setup procedures for setting up your motherboard.
- **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.

### 3. MyASUS

MyASUS offers a variety of support features such as helping to troubleshoot issues, optimizing product performance, integrating ASUS software, and recovery drive creation. Please visit <https://www.asus.com/support> for installation guide and FAQ.



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MyASUS is only available on selected models, please check your motherboard's specifications summary to see if your motherboard supports MyASUS.

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**4. Motherboard Installation Guide**

Please visit <https://www.asus.com/support> for more information on the Motherboard Installation Guide.



**5. Driver and Utilities FAQ**

Please visit <https://www.asus.com/support> for more information on downloading and installing drivers and utilities for your motherboard.



**6. RAID Configuration Guide**

Please visit <https://www.asus.com/support> for more information on the RAID Configuration Guide.



**7. BIOS FlashBack™ Feature**

Please visit <https://www.asus.com/support> for more information on the BIOS FlashBack™ Feature.



## 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 FORMULA specifications summary

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU             | <p>Intel® Socket LGA1700 for Intel® Core™ 14<sup>th</sup> &amp; 13<sup>th</sup> Gen Processors, Intel® Core™ 12<sup>th</sup> Gen, 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 slots, Max. 192GB, DDR5 Non-ECC, Un-buffered Memory*</p> <p>Dual Channel Memory Architecture</p> <p>Supports Intel® Extreme Memory Profile (XMP) memory module</p> <p>ASUS Enhanced Memory Profile II (AEMP II)</p> <p>Supports DIMM Flex</p> <p>* Supported memory types, data rate (speed), and number of DRAM modules vary depending on the CPU and memory configuration, for more information please refer to CPU/Memory Support list under the Support tab of product information site or visit <a href="https://www.asus.com/support/">https://www.asus.com/support/</a>.</p> <p>* Non-ECC, Un-buffered DDR5 Memory supports On-Die ECC function.</p>                                                                                             |
| Graphics        | <p>1 x HDMI™ port**</p> <p>2 x Intel® Thunderbolt™ 4 ports (USB Type-C®) support DisplayPort and Thunderbolt™ video outputs***</p> <p>* Graphics specifications may vary between CPU types. Please refer to <a href="http://www.intel.com">www.intel.com</a> for any updates.</p> <p>** Support 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® Core™ Processors (14<sup>th</sup> &amp; 13<sup>th</sup> &amp; 12<sup>th</sup> Gen)*</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 4.0 x4 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 PCIe16(G5)_2 and PCIe16(G5)_1. When M.2_1 is occupied with SSD device, PCIe16(G5)_2 will be disabled and PCIe16(G5)_1 will run x8 only.</p> <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> |
| Storage         | <p>Supports 5 x M.2 slots and 4 x SATA 6Gb/s ports*</p> <p>Intel® Core™ Processors (14<sup>th</sup> &amp; 13<sup>th</sup> &amp; 12<sup>th</sup> Gen)</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 2242/2260/2280 (supports PCIe 4.0 x4 mode)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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## ROG MAXIMUS Z790 FORMULA specifications summary

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage               | <b>Intel® Z790 Chipset</b> <ul style="list-style-type: none"> <li>- M.2_3 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode)</li> <li>- M.2_4 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode)</li> <li>- M.2_5 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode)</li> <li>- 4 x SATA 6Gb/s ports</li> </ul> <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 and PCIe16(G5)_1. When M.2_1 is occupied with SSD device, PCIe16(G5)_2 will be disabled and PCIe16(G5)_1 will run x8 only.</p>         |
| Ethernet              | 1 x Realtek 5Gb Ethernet<br>ASUS LANGuard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Wireless & Bluetooth® | <b>Intel® Wi-Fi 7*</b><br>2x2 Wi-Fi 7 (802.11be)**<br>Supports 2.4/5/6GHz frequency band***<br>Support Wi-Fi 7 320MHz bandwidth, up to 5.76Gbps transfer rate.<br>Bluetooth® v5.4****<br><p>* Compatible with Windows 11 or later.</p> <p>** Wi-Fi 7 MLO(Multi-link Operation) full functions support will be ready in Windows 11 2024 Platform (Windows 11 24H2) or later.</p> <p>*** Wi-Fi 6GHz frequency band and bandwidth regulatory may vary between countries.</p> <p>**** The Bluetooth version may vary, please refer to the Wi-Fi module manufacturer's website for the latest specifications.</p> |
| USB                   | <b>Rear USB (Total 12 ports)</b><br>2 x Thunderbolt™ 4 ports (2 x USB Type-C®)<br>6 x USB 10Gbps ports (5 x Type-A + 1 x USB Type-C®)<br>4 x USB 5Gbps ports (4 x Type-A)<br><b>Front USB (Total 9 ports)</b><br>1 x USB 20Gbps connector (supports USB Type-C® with up to 60W PD/QC4+)**<br>2 x USB 5Gbps headers support 4 additional USB 5Gbps ports<br>2 x USB 2.0 headers support 4 additional USB 2.0 ports<br><p>* USB Type-C® power delivery output: 5V/3A</p> <p>** USB Type-C® power delivery output: 5V/9V/15V/20V max. 3A, PPS: 3.3-21V max. 3A</p>                                              |
| Audio                 | <b>ROG SupremeFX 7.1 Surround Sound High Definition Audio CODEC ALC4082*</b> <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 110 dB SNR recording input</li> <li>- Supports up to 32-Bit/384 kHz playback</li> </ul>                                                                                                                                                                                            |

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# ROG MAXIMUS Z790 FORMULA specifications summary

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Audio                   | <p><b>Audio Features</b></p> <ul style="list-style-type: none"><li>- SupremeFX Shielding Technology</li><li>- ESS® ES9218 QUAD DAC</li><li>- Gold-plated audio jacks</li><li>- Rear optical S/PDIF out port</li><li>- Premium audio capacitors</li></ul> <p>* The LINE OUT port on the back panel does not support spatial audio. If you wish to use spatial audio, make sure to connect your audio output device to the audio jack on the front panel of your chassis or use a USB interface audio device.</p>                                                                                                                                                                                                                                                 |
| Back Panel I/O Ports    | <p>2 x Thunderbolt™ 4 USB Type-C® ports</p> <p>6 x USB 10Gbps ports (5 x Type-A + 1 x USB Type-C®)</p> <p>4 x USB 5Gbps ports (4 x Type-A)</p> <p>1 x HDMI™ port</p> <p>1 x Wi-Fi module</p> <p>1 x Realtek 5Gb Ethernet port</p> <p>5 x Gold-plated audio jacks</p> <p>1 x Optical S/PDIF out port</p> <p>1 x BIOS FlashBack™ button</p> <p>1 x Clear CMOS button</p>                                                                                                                                                                                                                                                                                                                                                                                          |
| Internal I/O connectors | <p><b>Fan and Cooling related</b></p> <p>1 x 4-pin CPU Fan header</p> <p>1 x 4-pin CPU OPT Fan header</p> <p>1 x 4-pin AIO Pump header</p> <p>4 x 4-pin Chassis Fan headers</p> <p>1 x W_PUMP+ header</p> <p>1 x 2-pin Water In header</p> <p>1 x 2-pin Water Out header</p> <p>1 x 3-pin Water Flow header</p> <p><b>Power related</b></p> <p>1 x 24-pin Main Power connector</p> <p>2 x 8-pin +12V Power connectors</p> <p>1 x 8-pin PCIe Power connector</p> <p><b>Storage related</b></p> <p>5 x M.2 slots (Key M)</p> <p>4 x SATA 6Gb/s ports</p> <p><b>USB</b></p> <p>1 x USB 20Gbps connector (supports USB Type-C®)</p> <p>2 x USB 5Gbps headers support 4 additional USB 5Gbps ports</p> <p>2 x USB 2.0 headers support 4 additional USB 2.0 ports</p> |

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# ROG MAXIMUS Z790 FORMULA specifications summary

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Internal I/O connectors | <p><b>Miscellaneous</b></p> <ul style="list-style-type: none"><li>3 x Addressable Gen 2 headers</li><li>1 x Alteration PCIe Mode switch</li><li>1 x Aura RGB header</li><li>1 x CPU Over Voltage jumper</li><li>1 x FlexKey button</li><li>1 x Front Panel Audio header (F_AUDIO)</li><li>1 x ReTry button</li><li>1 x Start button</li><li>1 x 10-1 pin System Panel header</li><li>1 x Thermal Sensor header</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Special Features        | <p><b>Extreme OC Kit</b></p> <ul style="list-style-type: none"><li>- FlexKey button</li><li>- ReTry button</li><li>- Start button</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-Antenna</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>- HybridChill VRM block</li><li>- M.2 heatsink backplate</li><li>- M.2 heatsink</li><li>- Metal 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 FORMULA specifications summary

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Special Features | <p><b>AURA Sync</b></p> <ul style="list-style-type: none"> <li>- AURA RGB header</li> <li>- Addressable Gen 2 headers</li> </ul> <p><b>OLED 2"</b></p> <p><b>Front Panel USB 20Gbps with Quick Charge 4+ Support</b></p> <ul style="list-style-type: none"> <li>- Support: up to 60W fast charging and USB Wattage Watcher*</li> <li>- Output: 5/9/15/20V max. 3A, PPS:3.3–21V max. 3A</li> <li>- Compatible with PD3.0 and PPS</li> </ul> <p>* To support 60W, please install the power cable to the 8-pin PCIe power connector or else only 27W will be supported.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Special Features | <p><b>ROG Exclusive Software</b></p> <ul style="list-style-type: none"> <li>- ROG CPU-Z</li> <li>- DTS® Sound Unbound</li> <li>- 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>- AIIDA64 Extreme (1 year full version)</li> <li>- Aura Creator</li> <li>- Aura Sync</li> <li>- Fan Xpert 4 (with AI Cooling II)</li> <li>- GameFirst</li> <li>- Power Saving</li> <li>- Sonic Studio</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>USB Wattage Watcher</p> <p>Intel® Unison™</p> <p>Adobe Creative Cloud (Free Trial)</p> <p>WinRAR (40 Days Free Trial)</p> <p><b>UEFI BIOS</b></p> <p>AI Overclocking Guide</p> <p>ASUS EZ DIY</p> <ul style="list-style-type: none"> <li>- ASUS CrashFree BIOS 3</li> <li>- ASUS EZ Flash 3</li> <li>- ASUS UEFI BIOS EZ Mode</li> <li>- ASUS MyHotkey</li> </ul> <p>MemTest86</p> |

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# ROG MAXIMUS Z790 FORMULA specifications summary

|                   |                                                           |
|-------------------|-----------------------------------------------------------|
| BIOS              | 256 Mb Flash ROM, UEFI AMI BIOS                           |
| BIOS CAP Filename | <b>ROG MAXIMUS Z790 FORMULA:</b> A5471.cap                |
| Manageability     | WOL by PME, PXE                                           |
| Operating System  | Windows® 11<br>Windows® 10 64-bit                         |
| Form Factor       | ATX Form Factor<br>12 inch x 9.6 inch (30.5 cm x 24.4 cm) |



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

## Package contents

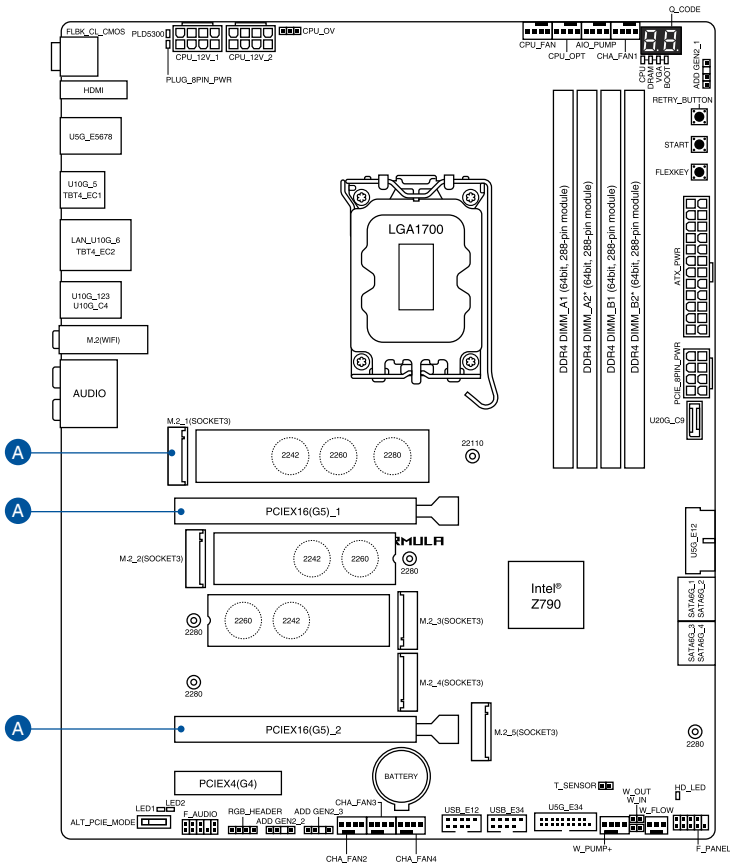
Check your motherboard package for the following items.

|                        |                                                                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Motherboard            | 1 x ROG MAXIMUS Z790 FORMULA motherboard                                                                                                                                                                     |
| Cables                 | 1 x ARGB RGB extension cable<br>2 x ROG Weave SATA 6G cables<br>2 x SATA 6Gb/s cables                                                                                                                        |
| Additional Cooling Kit | 1 x Thermal pad for M.2<br>1 x DDR5 Fan holder                                                                                                                                                               |
| Miscellaneous          | 1 x ASUS WiFi Q-Antenna<br>1 x Q-connector<br>3 x M.2 backplate Q-Latch packages<br>1 x ROG key chain<br>1 x ROG stickers<br>1 x ROG VIP card<br>1 x M.2 rubber package<br>3 x M.2 backplate rubber packages |
| Installation Media     | 1 x USB drive with utilities and drivers                                                                                                                                                                     |
| Documentation          | 1 x Quick Start Guide                                                                                                                                                                                        |



- If any of the above items is damaged or missing, contact your retailer.
- Items not listed in the Package contents list above are purchased separately and do not come bundled with your motherboard package.

# Connectors with shared bandwidth



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



- M.2\_1 shares bandwidth with PCIEX16(G5)\_2 and PCIEX16(G5)\_1. When M.2\_1 is occupied with SSD device, PCIEX16(G5)\_2 will be disabled and PCIEX16(G5)\_1 will run x8 only.
- When installing a PCIe Gen 5.0 M.2 SSD, ensure to install it to the M.2\_1 slot.

[illegible]

# 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 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.
- 

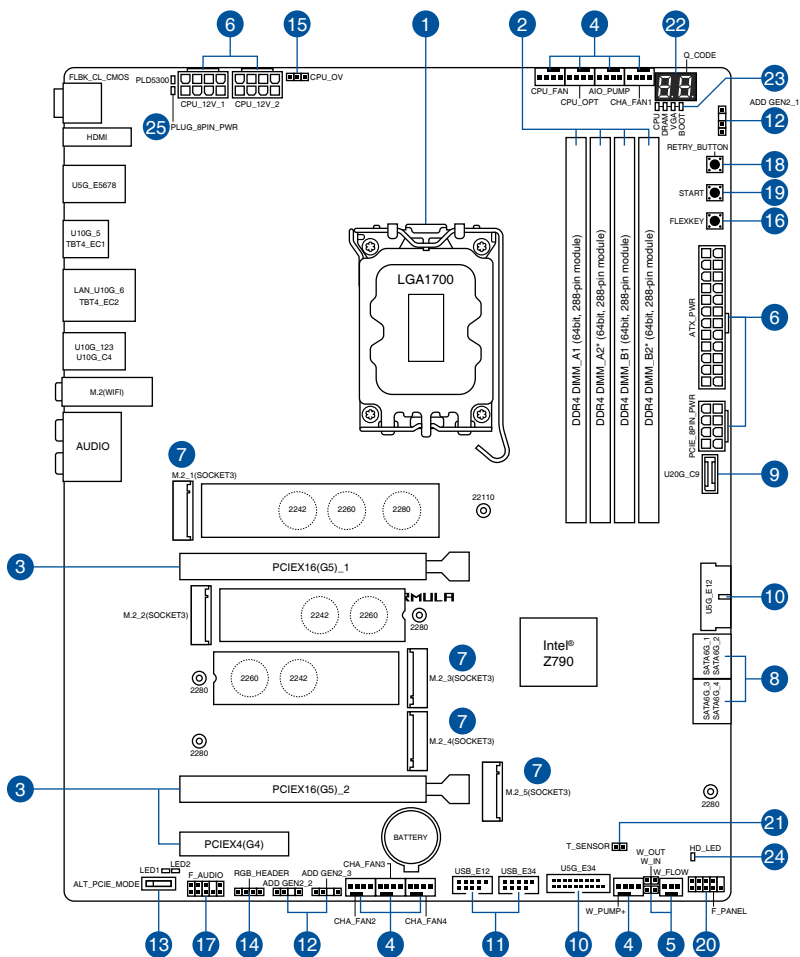


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The pin definitions in this chapter are for reference only. The pin names depend on the location of the header/jumper/connector.

---

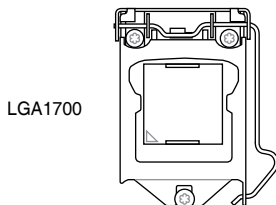
## 1.2 Motherboard layout



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| 25. 8-pin Power Plug LED                    | 1-17 |

## 1. CPU socket

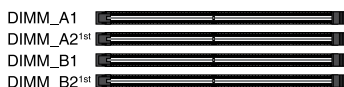
The motherboard comes with a LGA1700 socket designed for Intel® Core™ 14<sup>th</sup> & 13<sup>th</sup> Gen Processors, Intel® Core™ 12<sup>th</sup> Gen, Pentium® Gold and Celeron® Processors.



- 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 CPU 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.

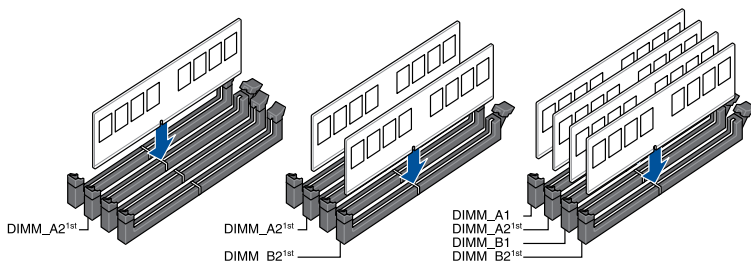
## 2. DIMM slots

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 module. DO NOT install a DDR, DDR2, DDR3, or DDR4 memory module to the DDR5 slot.

### Recommended memory configurations



## Memory configurations

You may install Non-ECC DDR5 DIMMs into the DIMM sockets.



- You may install varying memory sizes in the DIMM channels. 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.

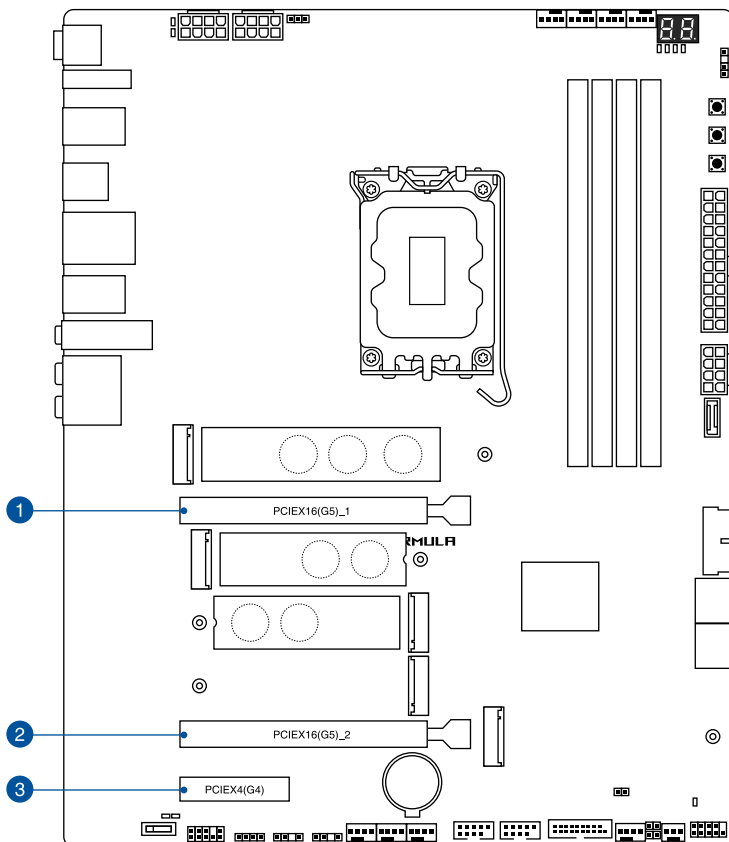
### 3. Expansion slots



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



To install a PCIe expansion card, please refer to the **Motherboard Installation Guide** on the ASUS support site.



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       |
| 2    | 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 and PCIEX16(G5)\_1. When M.2\_1 is occupied with SSD device, PCIEX16(G5)\_2 will be disabled and PCIEX16(G5)\_1 will run x8 only.
- When installing a dual VGA card, we recommend selecting a chassis case which supports 7 or more expansion slots

## Using the PCIe Slot Q-Release

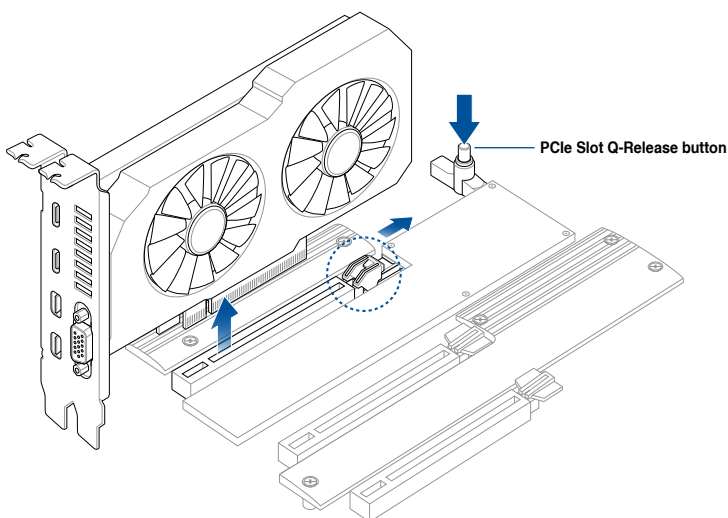
The PCIEX16(G5)\_1 slot comes with a PCIe Slot Q-Release button allowing you to easily remove an expansion card installed to this PCIe slot, even when the expansion card may be blocking the PCIe push-latch, such as a graphics card.

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

Press the PCIe Slot Q-Release button with one hand whilst slightly lifting the expansion card with the other hand. This should release the expansion card so that you can remove it with ease.



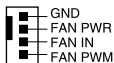
The illustration below is for reference only. The motherboard and PCIe Slot Q-Release button may differ between models, but the steps for using the PCIe Slot Q-Release remain the same.



## 4. Fan and Pump headers

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

CPU\_FAN    CHA\_FAN1  
CPU\_OPT    CHA\_FAN2  
AIO\_PUMP   CHA\_FAN3  
W\_PUMP+   CHA\_FAN4



- 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+** or **AIO\_PUMP** header.

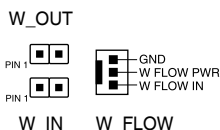


- When connecting a single CPU fan, you may connect it to either the **CPU\_FAN** or **CPU\_OPT** header.
- When connecting two CPU fans, ensure to connect the fans to the **CPU\_FAN** and the **CPU\_OPT** header, and make sure both fans are the same brand and model.
- **W\_PUMP+** function support depends on water cooling device.

| 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              |
| CHA_FAN1 | 1A           | 12W        | Q-Fan Controlled | -              |
| CHA_FAN2 | 1A           | 12W        | Q-Fan Controlled | -              |
| CHA_FAN3 | 1A           | 12W        | Q-Fan Controlled | -              |
| CHA_FAN4 | 1A           | 12W        | Q-Fan Controlled | -              |
| AIO_PUMP | 1A           | 12W        | Full-Speed       | -              |
| W_PUMP+  | 3A           | 36W        | Full Speed       | -              |

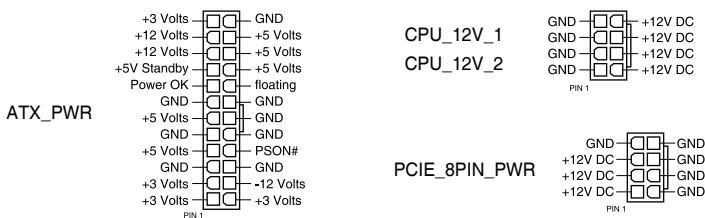
## 5. Liquid Cooling System headers

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.



## 6. 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 the 8-pin power plugs.

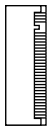


- We recommend that you use a PSU with a higher power output when configuring a system with more power-consuming devices. The system may become unstable or may not boot up if the power is inadequate.
- If you want to use two or more high-end PCI Express x16 cards, we recommend using a PSU with 900W~1200W power or above to ensure the system stability.
- The **PCIE\_8PIN\_PWR** connector provides power for PD3.0 support for the USB 20Gbps Type-C® Front Panel connector.

## 7. M.2 slot

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

M.2\_1(SOCKET3)  
M.2\_2(SOCKET3)  
M.2\_3(SOCKET3)  
M.2\_4(SOCKET3)  
M.2\_5(SOCKET3)

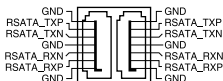


- **Intel® Core™ Processors (14<sup>th</sup> & 13<sup>th</sup> & 12<sup>th</sup> Gen):**
  - M.2\_1 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 5.0 x4 mode)
  - M.2\_2 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode)
- **Intel® Z790 Chipset:**
  - M.2\_3 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode)
  - M.2\_4 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode)
  - M.2\_5 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode)
- M.2\_1 shares bandwidth with PCIEX16(G5)\_2 and PCIEX16(G5)\_1. When M.2\_1 is occupied with SSD device, PCIEX16(G5)\_2 will be disabled and PCIEX16(G5)\_1 will run x8 only.
- Intel® Rapid Storage Technology supports PCIe RAID 0/1/5/10, SATA RAID 0/1/5/10.

## 8. 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.

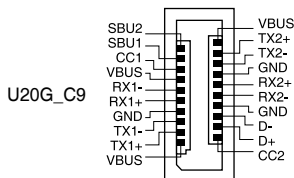
SATA6G\_1    SATA6G\_3  
SATA6G\_2    SATA6G\_4



- 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.
- To install a SATA device, please refer to the **Motherboard Installation Guide** on the ASUS support site.
- Before creating a RAID set, refer to the **RAID Configuration Guide**. You can download the **RAID Configuration Guide** from the ASUS website.

## 9. USB 20Gbps Type-C® Front Panel connector

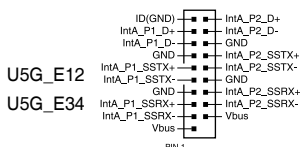
The USB 20Gbps Type-C® connector allows you to connect a USB 20Gbps Type-C® module for additional USB 20Gbps ports on the front panel. The USB 20Gbps Type-C® connector provides data transfer speeds of up to 20 Gb/s and PD 3.0 support for up to DC 20V/3A 60W fast charging technology.



- For PD 3.0 / QC 4+ support, ensure to connect the **PCIE\_8PIN\_PWR** connector.
- PD 3.0 up to DC 20V/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.

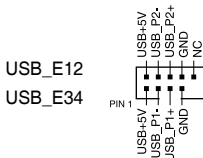
## 10. USB 5Gbps header

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



## 11. USB 2.0 header

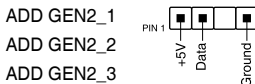
The USB 2.0 header allows you to connect a USB module for additional USB 2.0 ports. The USB 2.0 header provides data transfer speeds of up to 480 Mb/s.



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

## 12. Addressable Gen2 header

The Addressable Gen2 header allows you to connect individually addressable RGB WS2812B LED strips or WS2812B based LED strips.



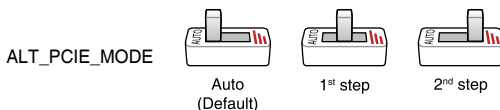
Before you install or remove any component, ensure that the power supply is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard, peripherals, or components.



- 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.
- 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.

## 13. Alteration PCIe Mode switch

The Alteration PCIe Mode switch allows you to switch the PCIe signal which comes from the CPU from between Gen4 or Gen3 for the PCIe slot.



- When the Alteration PCIe Mode switch is set to **Auto**, the PCIe signal from the CPU will be the default setting.
- When the Alteration PCIe Mode switch is set to **1<sup>st</sup> step**, the PCIe signal from the CPU will be Gen4, and LED1 will light up green.
- When the Alteration PCIe Mode switch is set to **2<sup>nd</sup> step**, the PCIe signal from the CPU will be Gen3, and LED2 will light up yellow.
- The nearby LEDs indicate which PCIe mode is currently selected.

## 14. Aura RGB header

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



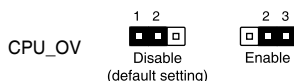
Before you install or remove any component, ensure that the power supply is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard, peripherals, or components.



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

## 15. CPU Over Voltage jumper

The CPU Over Voltage jumper allows you to set a higher CPU voltage for a flexible overclocking system (depending on the type of the installed CPU). Set to pins 2-3 to increase the CPU voltage setting, or set to pins 1-2 to use the default CPU voltage setting.



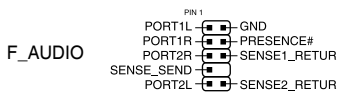
## 16. FlexKey button (Reset)

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.



## 17. 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.



## 18. 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.

RETRY\_BUTTON



## 19. Start button

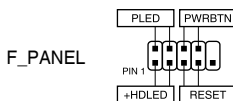
Press the Power button to power up the system, or put the system into sleep or soft-off mode (depending on the operating system settings).

START



## 20. 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 (HOLE)**

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)**

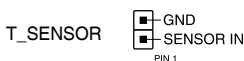
The 3-1 pin header allows you to connect the system power button. Press the power button to power up the system, or put the system into sleep or soft-off mode (depending on the operating system settings).

- **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.

## 21. 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.



## 22. 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.

## 23. 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.
- The DRAM LED will detect if the memory modules have been installed in the recommended memory configuration slots as well as if the memory modules have been properly installed and seated in the memory slots once the motherboard is connected to a power supply. After the motherboard has been powered on, the DRAM LED will return to the original error checking procedure, regardless of the LED status prior to powering on.

## 24. 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.

HD\_LED □

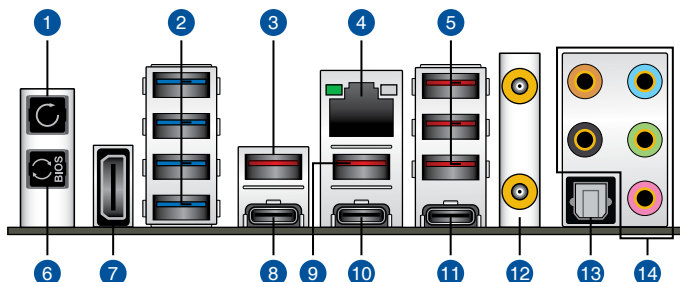
## 25. 8-pin Power Plug LED

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

PLUG\_8PIN\_PWR □

## 1.3 Motherboard rear and audio connections

### 1.3.1 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 5Gbps (Blue) Type-A ports E5, E6, E7, and E8
3. USB 10Gbps (Red) Type-A port 5
4. Realtek 5Gb Ethernet port\*
5. USB 10Gbps (Red) Type-A ports 1, 2, and 3
6. BIOS FlashBack™ button
7. HDMI™ port
8. Thunderbolt™ 4 USB Type-C® port EC1
9. USB 10Gbps (Red) Type-A port 6
10. Thunderbolt™ 4 USB Type-C® port EC2
11. USB 10Gbps Type-C® port C4
12. Wi-Fi module
13. Optical S/PDIF OUT port
14. Gold-plated audio jacks\*\*

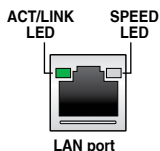
\* and \*\*: Refer to the tables on the next page for LAN port LEDs, and audio port definitions.



We strongly recommend that you connect your devices to ports with matching data transfer rate. For example connecting your USB 5Gbps devices to USB 5Gbps ports for faster and better performance for your devices.

### \* Realtek 5Gb Ethernet port LED indications

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

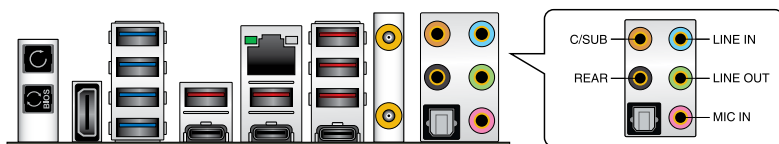


### \*\* Audio 2, 4, 5.1 or 7.1-channel configuration

| Port       | 2-channel         | 4-channel         | 5.1-channel       | 7.1-channel       |
|------------|-------------------|-------------------|-------------------|-------------------|
| Rear panel |                   |                   |                   |                   |
| LINE IN    | -                 | -                 | -                 | Side Speaker Out  |
| LINE OUT   | Front Speaker Out | Front Speaker Out | Front Speaker Out | Front Speaker Out |
| MIC IN     | -                 | -                 | -                 | -                 |
| REAR       | -                 | Rear Speaker Out  | Rear Speaker Out  | Rear Speaker Out  |
| C/SUB      | -                 | -                 | Center/ Subwoofer | Center/ Subwoofer |

## 1.3.2 Audio I/O connections

### Audio I/O ports

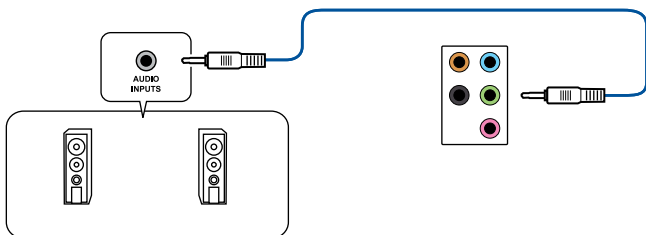


## Connect to Headphone and Mic

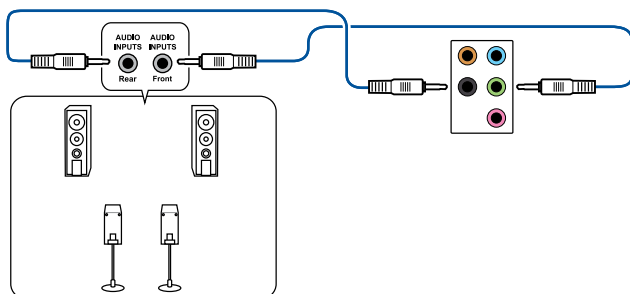


The LINE OUT port on the back panel does not support spatial audio. If you wish to use spatial audio, make sure to connect your audio output device to the audio jack on the front panel of your chassis or use a USB interface audio device.

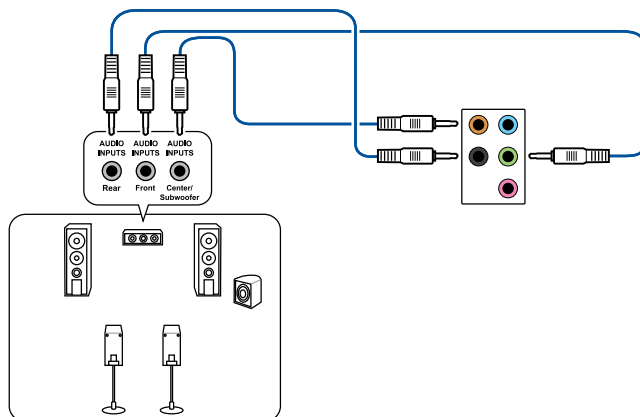
## Connect to 2-channel Speakers



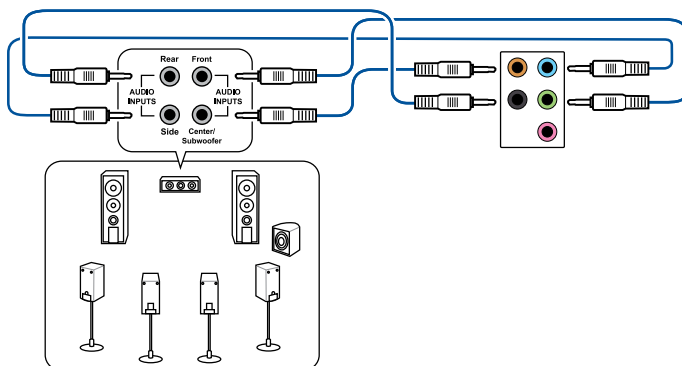
## Connect to 4-channel Speakers



## Connect to 5.1-channel Speakers



## Connect to 7.1-channel Speakers



[illegible]

# Basic Setup

# 2



The installation 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.

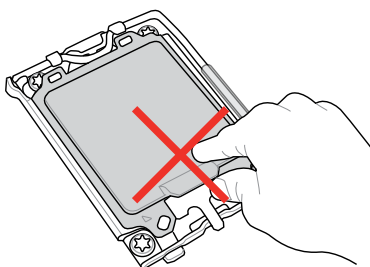
## 2.1 CPU installation



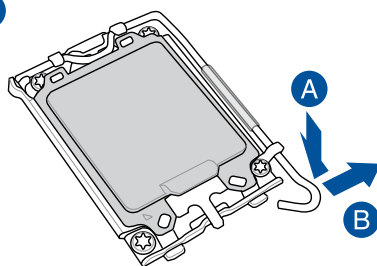
- Ensure that you install the correct CPU designed for LGA1700 socket only. DO NOT install a CPU designed for LGA1155, LGA1156, LGA1151, and LGA1200 sockets on the LGA1700 socket.
- The CPU fits in only one correct orientation. DO NOT force the CPU into the socket to prevent bending the connectors on 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.



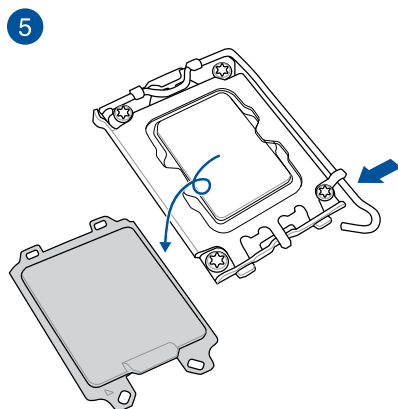
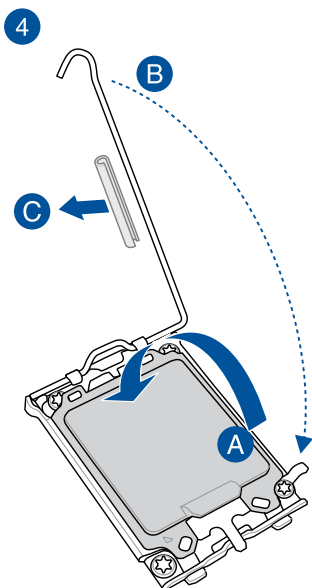
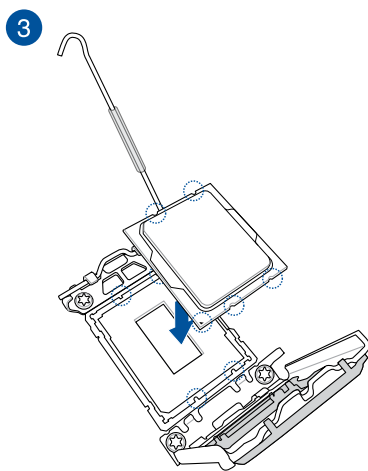
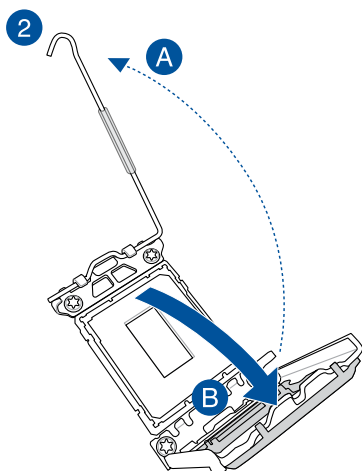
Install a heatsink or AIO cooler after installing the CPU. Please refer to the **Motherboard Installation Guide** on the ASUS support site, or to the user manual of the heatsink/AIO cooler for steps on installing the heatsink/AIO cooler.



1



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.



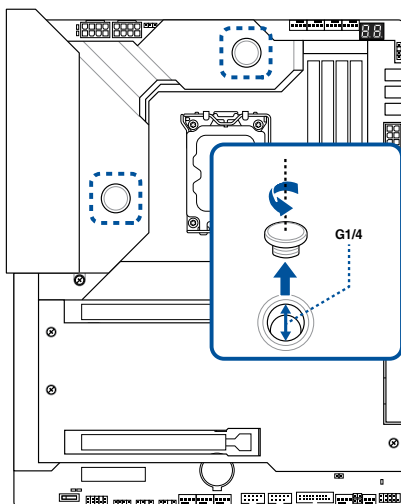
Ensure to remove the CPU Socket lever protector on the lever latch before locking the lever latch under the retention tab. Failure to do so may cause damages to your system when installing the cooling system.

## 2.2 Water block ports

This motherboard features water block coolant ports for the installation of a water block.

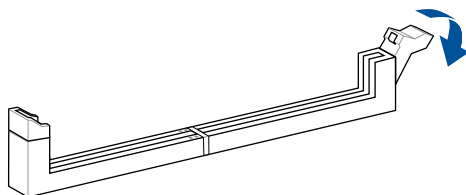


- To ensure the protection of your nickel-plated water block, it is mandatory to utilize specifically engineered coolants that contain corrosion, scale, and biological inhibitors.
- Please do not use tap water, acidic, or mixed solvents as your coolant to avoid damages to your device.
- It is not recommended to install this water block alongside any aluminum water cooling devices.
- To avoid any issues during product usage caused by improper disassembly, please do not disassemble the water colling top cover.

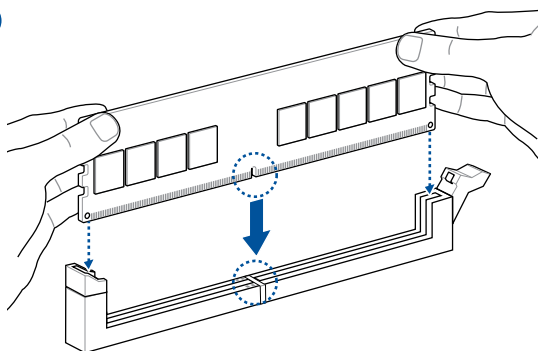


## 2.2 DIMM installation

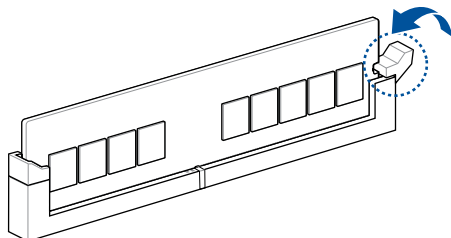
1



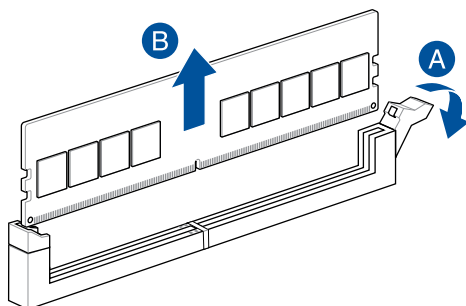
2



3



### DIMM removal



## 2.3 M.2 module installation

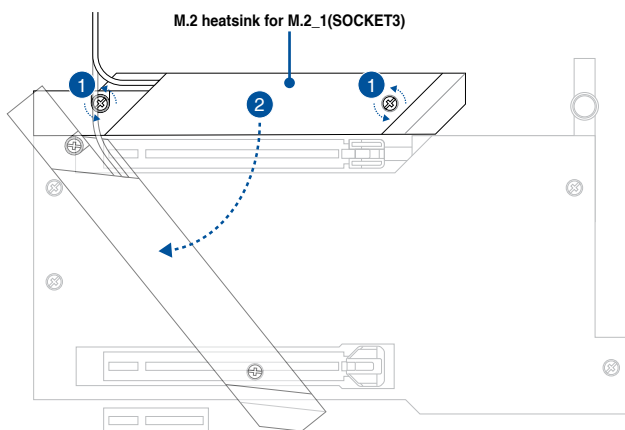


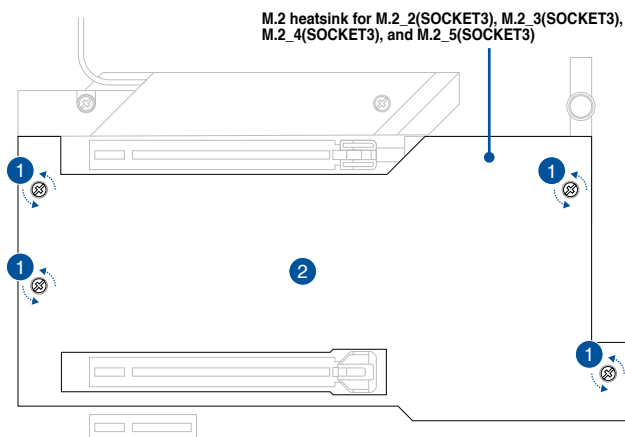
- The illustrations only show the installation steps for a 22110 M.2 slot, the steps are the same for the other M.2 slots.
- Use a Phillips screwdriver when removing or installing the screws or screw stands mentioned in this section.
- If the thermal pad on the M.2 heatsink becomes damaged, we recommend replacing it with the bundled thermal pad or a thermal pad with a thickness of 1.25mm.
- Supported M.2 type varies per motherboard.

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



Gently lift and swivel the heatsink for M.2\_1(SOCKET3) 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 the different M.2 slots, please refer to the different installation steps below:

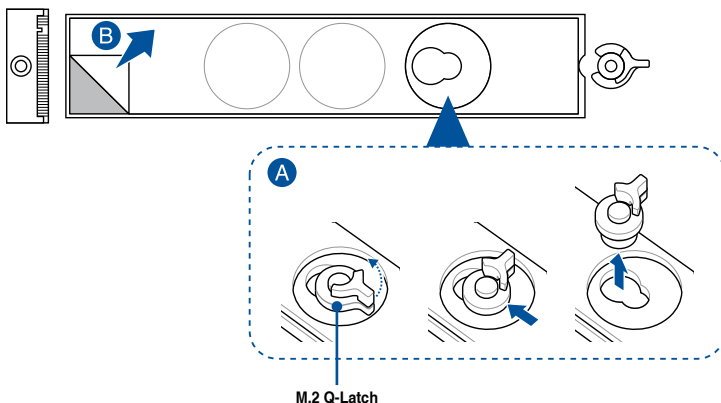
**M.2\_1(SOCKET3), M.2\_2(SOCKET3), and M.2\_3(SOCKET3) slot**

- A. (optional) If required, remove the pre-installed M.2 Q-Latch at the 2280 length screw hole by rotating the handle counterclockwise then pushing it towards the M.2 slot and removing it from the latch hole.



Only follow this step if a removable M.2 Q-Latch is pre-installed at the 2280 length screw hole and can be removed.

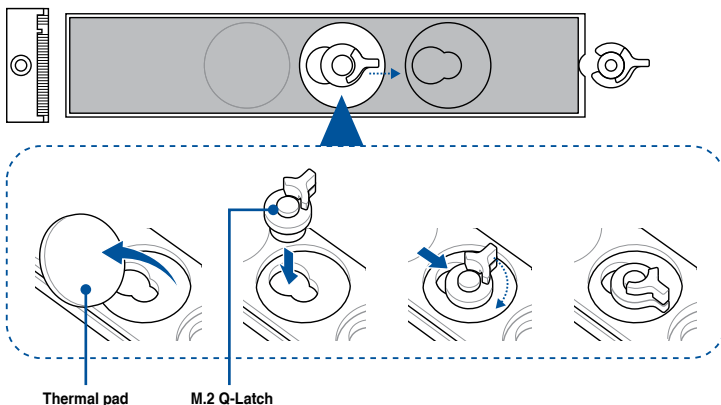
- B. Remove the plastic film from the thermal pad.



- C. (optional) Remove the thermal pad of the M.2 length screw hole you wish to install your M.2 module to, then install the M.2 Q-Latch.



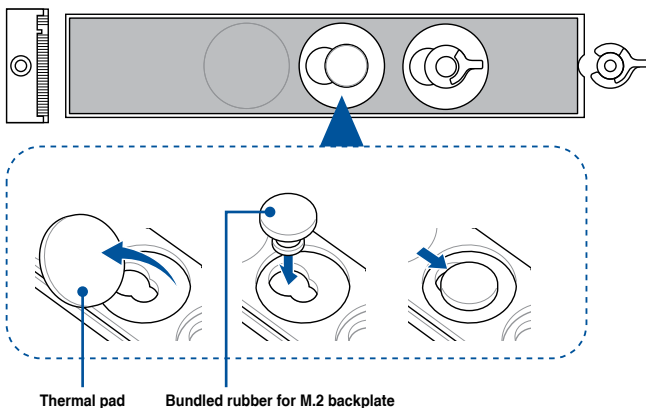
You can use a bundled M.2 Q-Latch or a pre-installed removable M.2 Q-Latch.



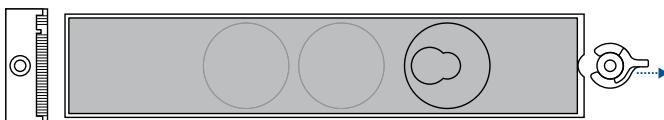
- D. (optional) Remove the thermal pad of the 2260 or 2242 M.2 length screw hole and install the bundled rubber for M.2 backplate if you are installing a single sided M.2 module. **DO NOT** install the bundled rubber for M.2 backplate when installing a double-sided M.2 module.



- Only follow this step when:
  - a. Installing a 22110, 2280, or 2260 length M.2 module and
  - b. When the rubber for M.2 backplate comes bundled with your motherboard package.
- Install the bundled rubber for M.2 backplate to the:
  - a. 2260 M.2 length screw hole when installing a 22110 or 2280 length M.2 module.
  - b. 2242 M.2 length screw hole when installing a 2260 length M.2 module.



- E. Rotate and adjust the M.2 Q-Latch so that the handle points away from the M.2 slot.

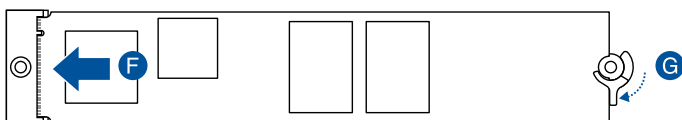


- F. Install your M.2 module to the M.2 slot.



Ensure that there is nothing obstructing your M.2 module when installing the M.2 module to the M.2 slot.

- G. Rotate the M.2 Q-Latch clockwise to secure the M.2 module in place.



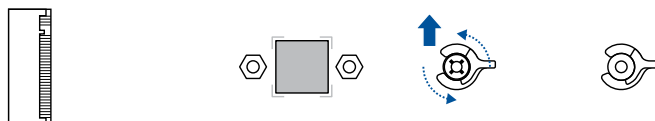
If you are installing a double-sided M.2 module that comes pre-installed with a heatsink and are having difficulty securing the M.2 module in place with the M.2 Q-Latch, please remove the M.2 module, then remove the entire thermal pad from the M.2 backplate and follow steps E to G to reinstall the M.2 module.

### **M.2 4(SOCKET3) and M.2 5(SOCKET3) slots**

- A. (optional) If required, remove the pre-installed removable M.2 Q-Latch screw at the 2280 length screw hole.



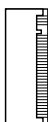
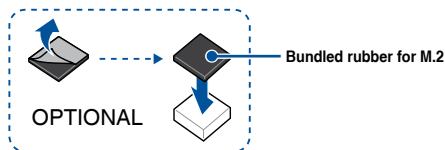
Only follow this step if a removable M.2 Q-Latch screw is pre-installed at the 2280 length screw hole and can be removed.



- B. (optional) Install the bundled rubber for M.2 if you are installing a single sided M.2 module. **DO NOT** install the bundled rubber for M.2 when installing a double-sided M.2 module. The rubber installed by default is compatible with double sided M.2 modules.



Only follow this step if installing a 22110 or 2280 length M.2 module and when the rubber for M.2 comes bundled with your motherboard package.



**OR** remove the M.2 rubber.



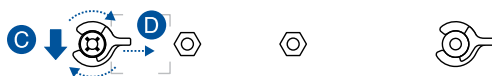
Only follow this step if installing a 2242 length M.2 module and the M.2 slot has an M.2 rubber pre-installed.



- C. (optional) Install the M.2 Q-Latch to the M.2 length screw hole you wish to install your M.2 module to.



You can use a bundled M.2 Q-Latch screw or a pre-installed removable M.2 Q-Latch screw.



E. Install your M.2 module to the M.2 slot.



Ensure that there is nothing obstructing your M.2 module when installing the M.2 module to the M.2 slot.

F. Rotate the M.2 Q-Latch clockwise to secure the M.2 module in place.



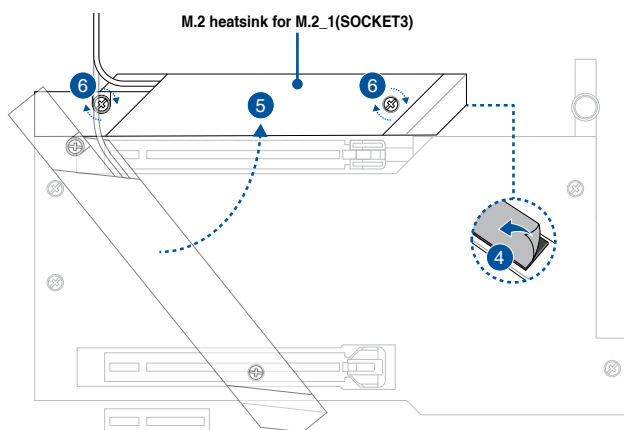
4. Remove the plastic film from the thermal pads on the bottom of the heatsinks.

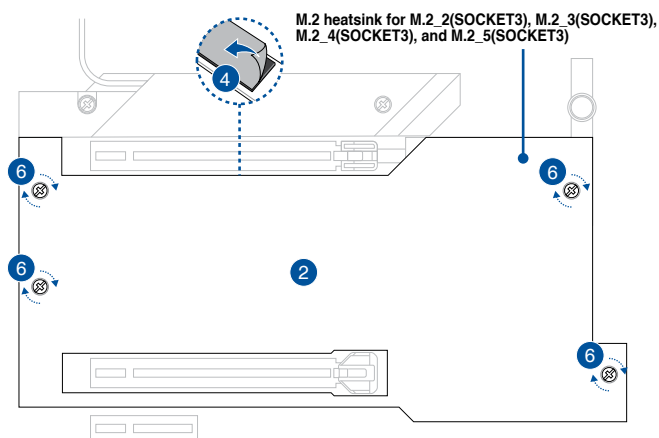


If the thermal pad on the M.2 heatsink becomes damaged, we recommend replacing it with the bundled thermal pad or a thermal pad with a thickness of 1.25mm.

5. Replace the heatsinks.

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



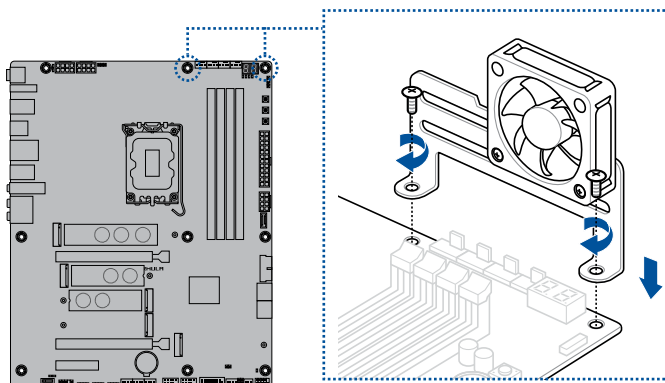


## 2.4 Additional cooling kit installation

### 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.

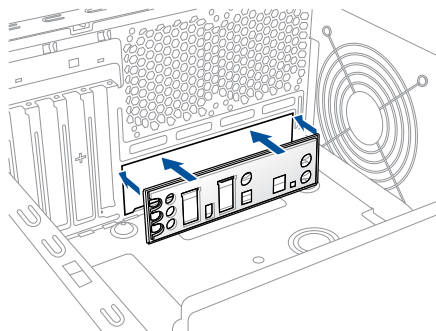


## 2.5 Motherboard installation

1. (on selected models) Install the bundled I/O Shield to the chassis rear I/O panel.



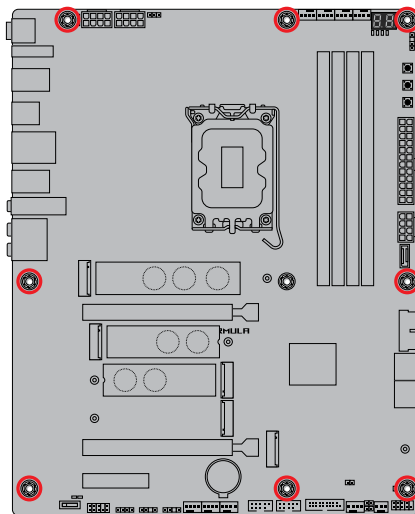
Only install the I/O Shield if your motherboard does not have a pre-installed I/O shield.



2. Place the motherboard into the chassis, ensuring that its rear I/O ports are aligned to the chassis' rear I/O panel.
3. Place eight (8) 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.

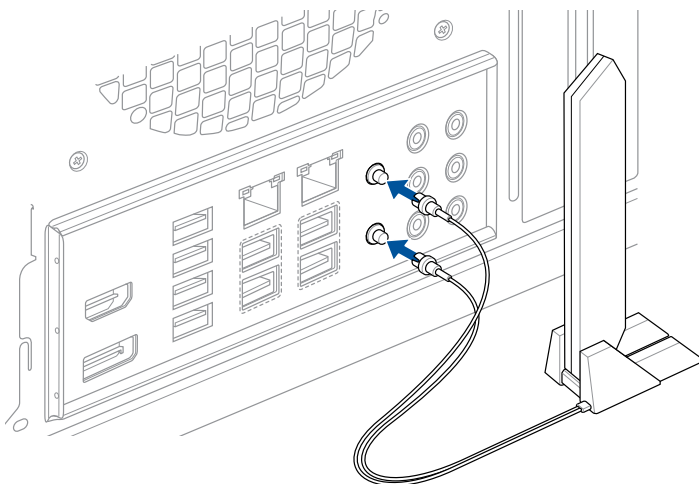


**DO NOT** over tighten the screws! Doing so can damage the motherboard.

## 2.6 ASUS WiFi Q-Antenna installation

### Installing the ASUS WiFi Q-Antenna

Connect the bundled ASUS WiFi Q-Antenna connector to the Wi-Fi ports at the back of the chassis.



- Ensure to hold tightly onto the connector when removing the antenna connector from the Wi-Fi ports, and refrain from attempting to remove the antenna connector from the Wi-Fi ports by pulling on the antenna connector cable.
- The antenna can only be extended to a right angle (90°). Do not force the antenna into an angle more than 90°, doing so may cause damages to the ASUS WiFi Q-Antenna.



- Ensure that the ASUS WiFi Q-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 WiFi Q-Antenna installation procedure is the same for all models.

### Using ASUS WiFi Q-Antenna functions

The ASUS WiFi Q-Antenna features a Direction Finder and Fast Check function, you can learn more about these feature and how to use them in the **ASUS WiFi Q-Antenna** tab in Armoury Crate.



The ASUS WiFi Q-Antenna function in Armoury Crate is only supported on the bundled antenna and Wi-Fi module.

## 2.7 BIOS FlashBack™



The illustrations for this section are for reference only. The WiFi module is only available on selected models.

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

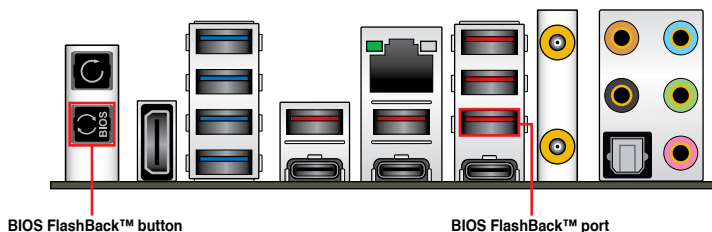
### To use BIOS FlashBack™:

1. Visit <https://www.asus.com/support/> and download the latest BIOS version for this motherboard.
2. Launch the **BIOSRenamer.exe** application to automatically rename the file or manually rename the file to the BIOS CAP filename specified in the **Specifications summary** section, 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.

3. Plug the 24-pin power connector to the motherboard and turn on the power supply (no need to power on the system). Insert the USB storage device to the USB port with BIOS FlashBack™ function.
4. 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.



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



For more BIOS update utilities in BIOS setup, refer to **BIOS and RAID Support** section.



- Do not unplug portable disk, power system, press the Clear CMOS button, or short the CLRRTC header 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.

## 2.8 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.

## 2.9 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



For more details on BIOS and RAID configurations, please refer to Manual & Document under the Support tab of the product information site, or visit <https://www.asus.com/support>.

## 3.1 Knowing UEFI BIOS

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



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

### 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.



- 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 the <F5> hotkey.
- 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.

## 3.2 ASUS EZ Flash 3

The ASUS EZ Flash 3 feature allows you to update the BIOS without using an OS-based utility.



Ensure to load the BIOS default settings to ensure system compatibility and stability. Select the **Load Optimized Defaults** item under the **Exit** menu or press the <F5> hotkey.

### 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.

### 3.3 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 file using one of the following methods:
  - Launch the **BIOSRenamer.exe** application to automatically rename the file.
  - Manually rename the file to the BIOS CAP filename specified in the **Specifications summary** section.
  - Manually rename the file to **asus.cap**.
3. Copy the renamed file to your USB storage device.
4. Turn on the system.
5. Insert the USB flash drive containing the BIOS file to a USB port.
6. 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.
7. The system requires you to enter BIOS Setup to recover the BIOS setting. To ensure system compatibility and stability, we recommend that you press the <F5> hotkey to load default BIOS values.



---

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

---

## 3.4 RAID configurations

The motherboard supports RAID configurations.

### 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 AML 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 AML 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 AML progress codes                         |
| F8      | Recovery PPI is not available                                  |
| F9      | Recovery capsule is not found                                  |
| FA      | Invalid recovery capsule                                       |
| FB – FF | Reserved for future AML 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 AML 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 AML 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. |

## General 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.

### HDMI Trademark Notice

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



HIGH-DEFINITION MULTIMEDIA INTERFACE

### 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。

# VCCI: Japan Compliance Statement

## Class B ITE

この装置は、クラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

VCCI-B

## Japan JATE

本製品は電気通信事業者（移动通信会社、固定通信会社、インターネットプロバイダ等）の通信回線（公衆無線LANを含む）に直接接続することができません。本製品をインターネットに接続する場合は、必ずルーター等を経由し接続してください。

## 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



Points de collecte sur [www.quefairedemesdechets.fr](http://www.quefairedemesdechets.fr)  
Privilégiez la réparation ou le don de votre appareil !

## Notices for Wi-Fi model

### FCC RF Caution Statement

**WARNING:** Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

### FCC Wi-Fi Caution Statement

Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

### 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 provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

### 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)

### ISED Wi-Fi Caution Statement (RLAN devices)

Devices shall not be used for control of or communications with unmanned aircraft systems.

Les dispositifs ne doivent pas être utilisés pour commander des systèmes d'aéronef sans pilote ni pour communiquer avec de tels systèmes.

## KC: Korea Warning Statement

B급 기기 (가정용 방송통신기자재)

이 기기는 가정용(B급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

\*당해 무선설비는 전파혼신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없습니다.

## NCC: Wireless Statement

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

應避免影響附近雷達系統之操作。

## Japan RF Equipment Statement

### 屋外での使用について

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、及び6GHz帯域の電波は屋外で使用が禁じられています。

### 法律および規制遵守

本製品は電波法及びこれに基づく命令の定めるところに従い使用してください。日本国外では、その国の法律または規制により、本製品の使用ができないことがあります。このような国では、本製品を運用した結果、罰せられることがあります。当社は一切責任を負いかねますのでご了承ください。

## Précautions d'emploi de l'appareil :

- 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).
- 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.
- 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.
- Tenez cet appareil à distance du ventre des femmes enceintes et du bas-ventre des adolescents.

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

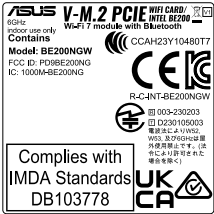
UKCA RF Output table (The Radio Equipment Regulations 2017)

Model: BE200NGW

- a. Low Power Indoor (LPI) Wi-Fi 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 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 | 19 dBm                      |
|           | 5150 - 5350 MHz | 21 dBm                      |
|           | 5470 - 5725 MHz | 21 dBm                      |
|           | 5725 - 5850 MHz | 12 dBm                      |
|           | 5945 - 6425 MHz | 21 dBm                      |
| Bluetooth | 2402 - 2480 MHz | 17 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 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), Ireland (IE), Iceland (IS), Lithuania (LT), Germany (DE), Netherlands (NL), Spain (ES).
- Very Low Power (VLP) Wi-Fi 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), Ireland (IS), Iceland (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/EU. 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 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), Irlande (IS), Irlande (IE), Lituanie (LT), Allemagne (DE), Pays-Bas (NL), Espagne (ES).
- Pour les appareils portables Wi-Fi 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), Bulgarie (BG), Chypre (CY), République tchèque (CZ), Estonie (EE), France (FR), Irlande (IS), Irlande (IE), Lituanie (LT), Allemagne (DE), Pays-Bas (NL), Espagne (ES).

## Vereinfachte EU-Konformitätserklärung

ASUSTEK COMPUTER INC. erklärt hiermit, dass dieses Gerät mit den grundlegenden Anforderungen und anderen relevanten Bestimmungen der Richtlinie 2014/53/EU 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-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-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/EU. 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:**  
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 (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/EU. Полный текст декларации соответствия ЕС доступен на <https://www.asus.com/support/>.

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

- Устройства Wi-Fi с низким энергопотреблением в помещении (LPI):**  
Устройство разрешено 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 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. أن هذا الجهاز يتوافق مع المتطلبات الأساسية والأحكام الأخرى ذات الصلة الخاصة بهذه المذكرة 2014/53/UE. يتوفر النص الكامل لإعلان التوافق الصادر عن الاتحاد الأوروبي على:

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

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

- أجهزة Wi-Fi الداخلية منخفضة الطاقة (LPI):**  
يُحظر استخدام الجهاز لاستخدام داخلي إلا عندما يعمل في نطاق تردد من 5945 لـ 6425 ميجا هرتز في بلجيكا وبulgaria وقبرص وجمهورية التشيك وإستونيا وقبرص وأيسلندا وأيرلندا وفرنسا وألمانيا وهولندا وإسبانيا.
- أجهزة Wi-Fi منخفضة الطاقة بشدة (VLP) (الأجهزة المحمولة):**  
لا يُسمح باستخدام الجهاز على أنظمة الطيران الآلية عندما يعمل في نطاق تردد من 5945 لـ 6425 ميجا هرتز في بلجيكا وبulgaria وقبرص وجمهورية التشيك وإستونيا وقبرص وأيسلندا وأيرلندا وفرنسا 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 приложения 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 устройства:**  
Устройството е ограничено до употреба само на закрито, когато работи в честотния диапазон от 5945 до 6425 в Белия (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 устройства (преносими устройства):**  
Устройството не е разрешено за употреба в беспилотни летателни средства (UAS) при работа в честотния диапазон от 5945 до 6425 MHz в Белия (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 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 de Potência Muito Baixa (VLP) (dispositivos portáteis):**  
O dispositivo não é permitido para uso em 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:  
Uređaj je ograničen na upotrebu u zatvorenom prostoru samo kada radi u frekventnom 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 (prijenosni uređaji):  
Uređaj nije dopušteno koristiti u sustavima bespilnotnih letjelica (UAS) kada radi u frekventnom 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).

## Zjednodušené 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 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 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).

## Foerenklet 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-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-enheder (bærbare enheder):  
Enheden må kun bruges i ubemandede flýstsystemer (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).

## Vereenvoudigd 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-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-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 vastusdeklaratsioon

Käesolevaga kinnitab ASUSTek Computer Inc, et seade vastab direktiivi 2014/53/EÜ olulistele nõuetele ja teistele asjakohastele sätetele. EL vastusdeklaratsiooni täisteksti on saadaval veebisaidil <https://www.asus.com/support/>.

Sagedusvahemikus 5150-5350 MHz töötab WiFi kasutamine on järgmistest riikidest lubatud ainult siseruumides:

- Madala võimsusega (LPI) Wi-Fi 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 seadmed (kantavate seadmed):  
Sagedusala 5945 kuni 6425 MHz töötavate seadmete kasutamine on mehitamata õhusõueteemides (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 - EY'n vaatimustenmukaisuusvakuutus

ASUSTek Computer Inc. ilmoittaa täten, että tämä laite on direktiivin 2014/53/EU olennainen vaatimusten ja muiden asiaankuuluvien ehtojen mukainen. Koko EY:n vaatimustenmukaisuusvakuutuksen teksti on luettavissa osoitteesta <https://www.asus.com/support/>.

5 150 - 5 350 MHz:in tajuudella toimiva WiFi on rajoitettu sisäkäyttöön taulukossa luetteluissa maissa:

- Pienitehoiset sisäkäyttöön (LPI) Wi-Fi -laitteet:Laitte on rajoitettu sisäkäyttöön vain, kun se toimii 5945-6425 MHz tajuusalueella Belgiaa (BE), Bulgariaa (BG), Kyproksella (CY), Tšekin tasavallassa (CZ), Virossa (EE), Ranskassa (FR), Islannissa (IS), Irannissa (IE), Liettuaalla (LT), Saksassa (DE), Alankomaissa (NL), Espanjassa (ES).
- Erittäin pienitehoiset (VLP) Wi-Fi -laitteet (kannettavat laitteet):  
Laitetta ei saa käyttää miehittämättömissä lentokonejärjestelmissä (UAS) toimittamassa 5945–6425 MHz tajuusalueella Belgiaa (BE), Bulgariaa (BG), Kyproksella (CY), Tšekin tasavallassa (CZ), Virossa (EE), Ranskassa (FR), Islannissa (IS), Irannissa (IE), Liettuaalla (LT), Saksassa (DE), Alankomaissa (NL), Espanjassa (ES).

## تبیعت از نسخه شده سابقه باینه اتدیه اروپا

ASUSTek Computer Inc اینجا اعلام می کند که این دستگاه با نیازهای اساسی و سایر مقررات مربوط به باینه 2014/53/EU مطابقت دارد. متن کامل پیروی از این باینه اتدیه اروپا در این آدرس موجود است:

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

عسلر 5150-5350 مگاهرتز برای WiFi پاید برای استفاده در فضای داخل ساختمان برای کشور های فهرست شده در جدول، محدود شود.

- دستگاه های Wi-Fi با توان برقی کم (LPI) در فضای درسته:  
این دستگاه تنها زمانی که در محدوده فرکانس 5945 تا 6425 مگاهرتز در این کشور ها استفاده می شود محدود به کارکرد در فضای درسته 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 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 نردن (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).

## Αποποίηση Δήλωση Συμμόρφωσης ΕΕ

Διά του παρόντος η ASUSTek Computer Inc. δηλώνει ότι αυτή η συσκευή είναι σύμμορφη 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/>.

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

- Συσκευές Wi-Fi 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), τη Βουλγαρία (BG), την Κύπρο (CY), την Τσεχική Δημοκρατία (CZ), την Εσθονία (EE), τη Γαλλία (FR), την Ισπανία (IS), την Ιρλανδία (IE), τη Λιθουανία (LT), τη Γερμανία (DE), την Ολλανδία (NL), την Ισπανία (ES).
- Συσκευές Wi-Fi πολύ χαμηλής ισχύος (VLP) (φορητές συσκευές):  
Η συσκευή δεν επιτρέπεται να χρησιμοποιείται σε μη επανδρωμένα συστήματα αεροσκαφών (UAS) όταν λειτουργεί στο εύρος συχνοτήτων 5945 έως 6425 MHz στο Βέλγιο (BE), τη Βουλγαρία (BG), την Κύπρο (CY), την Τσεχική Δημοκρατία (CZ), την Εσθονία (EE), τη Γαλλία (FR), την Ισπανία (IS), την Ιρλανδία (IE), τη Λιθουανία (LT), τη Γερμανία (DE), την Ολλανδία (NL), την Ισπανία (ES).

**הצגת האימות רגולטורית מקוצרת עבור האיחוד אירופי**  
 ASUSTek Computer Inc. מצהירה בזאת כי מכשיר זה הוא לרשות  
 היחידית ולשאר הסעיפים הרלוונטיים של תקנה 1515/5300 MHz. ניתן לקרוא את  
 הסמך המלא של הצגת האימות רגולטורית עבור האיחוד האירופי בכתובת:  
<https://www.asus.com/support/>.  
 יש להגביל רשתות Wi-Fi הפועלות ברצועת התדרים 5150-5350 MHz  
 בתוך מבנים סגורים בארצות המפותחות ברשימה הבאה:  
 a. מכשירי Wi-Fi ליתב בתוך (LPI) Wi-Fi:  
 המכשיר מוגבל לשימוש פנימי בלבד בשימוש בטווח התדרים 5945 עד  
 6425 MHz בבליה (BE), בולגריה (BG), קפריסין (CY), לז'יה (CZ), אסטוניה  
 (EE), צרפת (FR), איטליה (IE), ליטא (LT), רומניה (DE), הולנד  
 (NL), ספרד (ES).  
 b. מכשירי Wi-Fi בתוספת נמוך (VLP) (מכשירים נייבים):  
 המכשיר אסור לשימוש במרחב פתוח ללא סיוע (UAS) לשימוש בטווח  
 התדרים 5945 עד 6425 MHz בבליה (BE), בולגריה (BG), קפריסין (CY),  
 לז'יה (CZ), אסטוניה (EE), צרפת (FR), איטליה (IE), ליטא (LT),  
 רומניה (DE), הולנד (NL), ספרד (ES).

#### Egyeszerített EU megfelelési nyilatkozat

Az ASUSTek Computer Inc. ezennel kijelenti, hogy ez az eszköz megfelel az  
 2014/53/EU sz. irányelv alapvető követelményeinek és egyéb vonatkozó  
 rendelkezéseinek. A megfelelési 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 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), Litvánában (LT),  
 Németországban (DE), Hollandiában (NL), illetve Spanyolországban (ES).
- Nagyon kis fogyasztású (VLP) Wi-Fi 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), Litvánában (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 lain lainnya yang terdapat  
 pada Peraturan 2014/53/EU. Teks lengkap pernyataan kesesuaian EU tersedia di:  
<https://www.asus.com/support/>.

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

- Perangkat Wi-Fi Dalam Ruang Daya 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 Daya Sangat Rendah (VLP):  
 Perangkat ini tidak diizinkan 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, kuras  
 norādītas tālāk.

- Zema enerģijas patēriņa iekārtu (LPI) Wi-Fi ierīces:  
 Ierīci 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), Īrijā (IE), Lietuvā (LT), Vācijā  
 (DE), Nīderlandē (NL), Spānijā (ES).
- Ļoti zema enerģijas patēriņa iekārtu (VLP) Wi-Fi 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), Īrijā  
 (IE), Lietuvā (LT), Vācijā (DE), Nīderlandē (NL), Spānijā (ES).

#### Supapristinta ES atitikties deklaracija

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

Toliau nurodytose šalyse „Wi-Fi“ ryšiu, veikiančiu 5 150–5 350 MHz dažnio  
 juostoje, galima naudotis tik patalpose:

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

#### Förenkelt EU-samsvarserklärning

ASUSTek Computer Inc. erklærer herved at denne enhet er i samsvar med  
 hovedsaklige krav og andre relevante forskrifter i direktivet 2014/53/EU.

Fullstendig tekst for EU-samsvarserklæringen 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-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-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).

#### Uprószczone deklaracja zgodności UE

Firma ASUSTek Computer Inc. niniejszym oświadcza, że urządzenie to jest  
 zgodne z zasadniczymi wymogami i innymi właściwymi 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 o niskim poziomie mocy w pomieszczeniach (LPI):  
 W Belgii (BE), Bułgarii (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 o bardzo niskim poziomie mocy (VLP) (urządzenia  
 przenośne):  
 W Belgii (BE), Bułgarii (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).

#### Declaração de Conformidade Simplificada da UE

A ASUSTek Computer Inc. declara que este dispositivo está em conformidade com  
 os requisitos essenciais e outras disposições relevantes da Diretiva  
 2014/53/UE. O texto integral da declaração de conformidade da UE está  
 disponível em <https://www.asus.com/support/>.

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

- Dispositivos Wi-Fi 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 de muito baixa potência (LPI) (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 cu consum redus de energie pentru interior (LPI): Dispozitivul 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 de foarte mică putere (VLP) (dispozitive portabile): Nu este permisă utilizarea dispozitivului 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).

**Poenostavljena Deklaracija o uslugenosti EU**

ASUSTek Computer Inc. ovim izjavljuje da je ovaj uređaj usaglašen sa osnovnim zahtevima i drugim relevantnim odredbama Direktive 2014/53/EU. Ceo tekst Deklaracije o uslugenosti 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 uređaji s niskom potrošnjom za zatvoreni prostor (LPI): Ovaj uređaj je ograničen na upotrebu samo u zatvorenom prostoru kada radi u frekventnom opsegu od 5945 do 6425 MHz u Belgiji (BE), Bugarskoj (BG), Cipru (CY), Češkoj Republici (CZ), Estoniji (EE), Francuskoj (FR), Islandu (IS), Irskoj (IE), Litvaniji (LT), Nemačkoj (DE), Holandiji (NL), Španiji (ES).
- Wi-Fi 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), Cipru (CY), Češkoj Republici (CZ), Estoniji (EE), Francuskoj (FR), Islandu (IS), Irskoj (IE), Litvaniji (LT), Nemačkoj (DE), Holandiji (NL), Španiji (ES).

**Zjednodušene vyhlásenie o zhode platné pre EÚ**

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 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 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 državih, navedenih v spodnjem seznamu, omejen na notranjo uporabo:

- Notranje naprave z nizko močjo (LPI) Wi-Fi: 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 (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 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 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-enheter med låg effekt inomhus (LPI): Enheten är begränsad till användning inomhus enbart när den använder 5 945 till 6 425 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-enheter med mycket låg effekt (VLP) (bärbara enheter): Enheten får inte användas på obemannade luftfartyg (UAS) när den använder 5 945 till 6 425 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. ขอประกาศในที่นี้ว่าอุปกรณ์นี้มีความสอดคล้องกับมาตรฐาน  
ต้องการที่จะให้เป็นและเว็บไซต์ที่เกี่ยวข้องอื่น ๆ ของบริษัทอยู่ติดต่อกับรหัส 2014/53/EU เมื่อทำการส่งมอบของประกาศความสอดคล้องกัน EU มีอยู่ที่ <https://www.asus.com/support/>

การทำงานของ WiFi ที่ 5150-5350MHz ถูกจำกัดให้ใช้ในอาคารสำหรับประเทศที่แสดงในตาราง

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

**Basitleştirilmiş AB Uyumluluk Bildirimi**

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

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

- Düşük Güç İçi Mekan (LPI) Wi-Fi cihazları: Belçika (BE), Bulgaristan (BG), Kıbrıs (CY), Çek Cumhuriyeti (CZ), Estonya (EE), Fransa (FR), İzlanda (IS), İrlanda (IE), Litvanya (LT), Almanya (DE), Hollanda (NL), İspanya (ES) da 5945 ila 6425 MHz frekans aralığında çalıřırken cihaz yalnızca iç mekanda kullanılmı ile sınırlandırılmıřtır.
- Çok Düşük Güç (VLP) Wi-Fi cihazları (taınabilir cihazlar): Belçika (BE), Bulgaristan (BG), Kıbrıs (CY), Çek Cumhuriyeti (CZ), Estonya (EE), Fransa (FR), İzlanda (IS), İrlanda (IE), Litvanya (LT), Almanya (DE), Hollanda (NL), İspanya (ES) da 5945 ila 6425 MHz frekans aralığında çalıřırken cihazın İnsanüstü Hava Aracı Sistemleri (UAS)'ta kullanılmı izini deęildir.

**Спрощена 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: Використання пристрою обмежено лише приміщенням 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 (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).



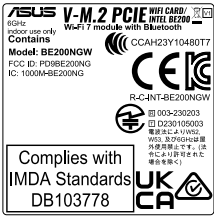
|    |    |    |    |        |    |    |
|----|----|----|----|--------|----|----|
| AT | BE | BG | CZ | DK     | EE | FR |
| DE | IS | IE | IT | EL     | ES | CY |
| LV | LI | LT | LU | HU     | MT | NL |
| NO | PL | PT | RO | SI     | SK | TR |
| FI | SE | CH | HR | UK(NI) |    |    |

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

Model: BE200NGW

| Function  | Frequency       | Maximum Output Power (EIRP) |
|-----------|-----------------|-----------------------------|
| WiFi      | 2412 - 2472 MHz | 19 dBm                      |
|           | 5150 - 5350 MHz | 21 dBm                      |
|           | 5470 - 5725 MHz | 21 dBm                      |
|           | 5725 - 5850 MHz | 12 dBm                      |
|           | 5945 - 6425 MHz | 21 dBm                      |
| Bluetooth | 2402 - 2480 MHz | 17 dBm                      |

\* Receiver Category 1



# 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/fr/support/>.

## FR: Garantie ASUS

- ASUS fournit une garantie commerciale en tant que garant de la 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 Garantieinformationen

- 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 bestemmelse i ASUS' handelsmæssige garanti.
- Denne handelsmæssige garanti fra ASUS tilbydes uafhængigt, som en tilføjelse til den lovbestemte juridiske garanti og den påvirkelse eller begrænsning på ingen måde rettigehederne 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 законовата гаранция. Тя по никакъв начин не оказва влияние върху правата на потребителя в законовата гаранция и по никакъв начин не ги ограничава.

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

## CZ: Informace o záruce společnosti ASUS

- Společnost ASUS nabízí dobrovolnou komerční záruku výrobce.
- Společnost ASUS si vyhradzuje 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

- ASUS 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 garantii tingimusi.
- See ASUS-e tasuline garantiid on sõltumatu lisagarantiid seadusega kehtestatud garantiile ega mõjuta mingil määral seadusega kehtestatud garantiid ning seadusega kehtestatud garantiid 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 garanciālis informācija

- 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 juridiskajā garantijā 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 įstatyminės 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 pridržuje 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 Garantisini sunar.
- ASUS, ASUS Ticari Garantisinin hükümlerini yorumlama hakkını saklı tutar.
- Bu ASUS Ticari Garantisini, bağımsız olarak ve hukuki Yasal Garanti'ye ek olarak sağlanır ve hiçbir şekilde Yasal Garanti kapsamındaki hakları etkilemez veya sınırlanmaz.

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

**FI: ASUS-takuutiedot**

- ASUS tarjoaa vapaaehtoisien valmistajan kauppallisen takuun.
- ASUS pidättää oikeuden tulkita ASUS-kauppallisen takuun ehdot.
- Tämä ASUS-kauppallinen takuu tarjotaan itsenäisesti lakisääteisen oikeudellisen takuun lisäksi eikä se vaikuta millään tavoin laillisen takuun oikeuksiin tai rajoita niitä.

Saadaksesi kaikki takuutiedot, siirry osoitteeseen <https://www.asus.com/fin/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 gir uavhengig og i tillegg til den lovbestemte juridiske garantien, og virken 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 dobrovoljno 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 na 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 rättigheterna 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 Законної Гарантії; вона жодним чином не впливає на права за Законною Гарантією і не обмежує їх.

Всю 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: Informations de garantie 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 pindai Kode di bagian bawah halaman terakhir untuk Kartu Garansi versi Web dalam format PDF untuk lebih informasi jelas mengenai jaminan 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

## ASUSTeK COMPUTER INC.

Address: 1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112

## ASUS COMPUTER INTERNATIONAL (America)

Address: 48720 Kato Rd., Fremont, CA 94538, USA

## ASUS COMPUTER GmbH (Germany and Austria)

Address: Harkortstrasse 21-23, 40880 Ratingen, Germany

## ASUSTeK (UK) LIMITED

Address: 1st Floor, Sackville House, 143-149 Fenchurch Street, London, EC3M 6BL,  
England, United Kingdom

# Service and Support

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



## Product Register

Log in and register your device for better product support.

