

Z690I AORUS ULTRA PLUS (Z690I A ULTRA PLUS)

Z690I AORUS ULTRA PLUS DDR4 (Z690I A ULTRA PLUS D4)

User's Manual

Rev. 1002

12ME-Z69IU5P-1002R

Z690I AORUS
ULTRA PLUS



Z690I AORUS
ULTRA PLUS DDR4



For more product details, please visit GIGABYTE's website.



To reduce the impacts on global warming, the packaging materials of this product are recyclable and reusable. GIGABYTE works with you to protect the environment.



Guide de paramétrage
facile de la carte mère

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- In order to assist in the use of this product, carefully read the User's Manual.
- For product-related information, check on our website at: <https://www.gigabyte.com>

Identifying Your Motherboard Revision

The revision number on your motherboard looks like this: "REV: X.X." For example, "REV: 1.0" means the revision of the motherboard is 1.0. Check your motherboard revision before updating motherboard BIOS, drivers, or when looking for technical information.

Example:

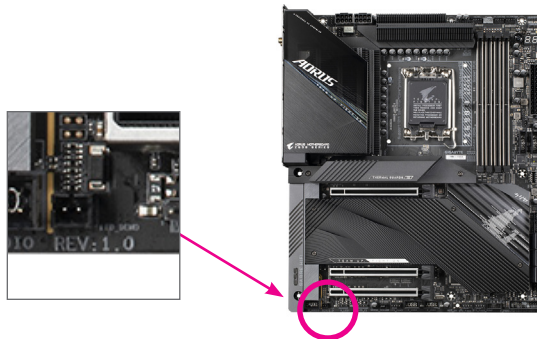
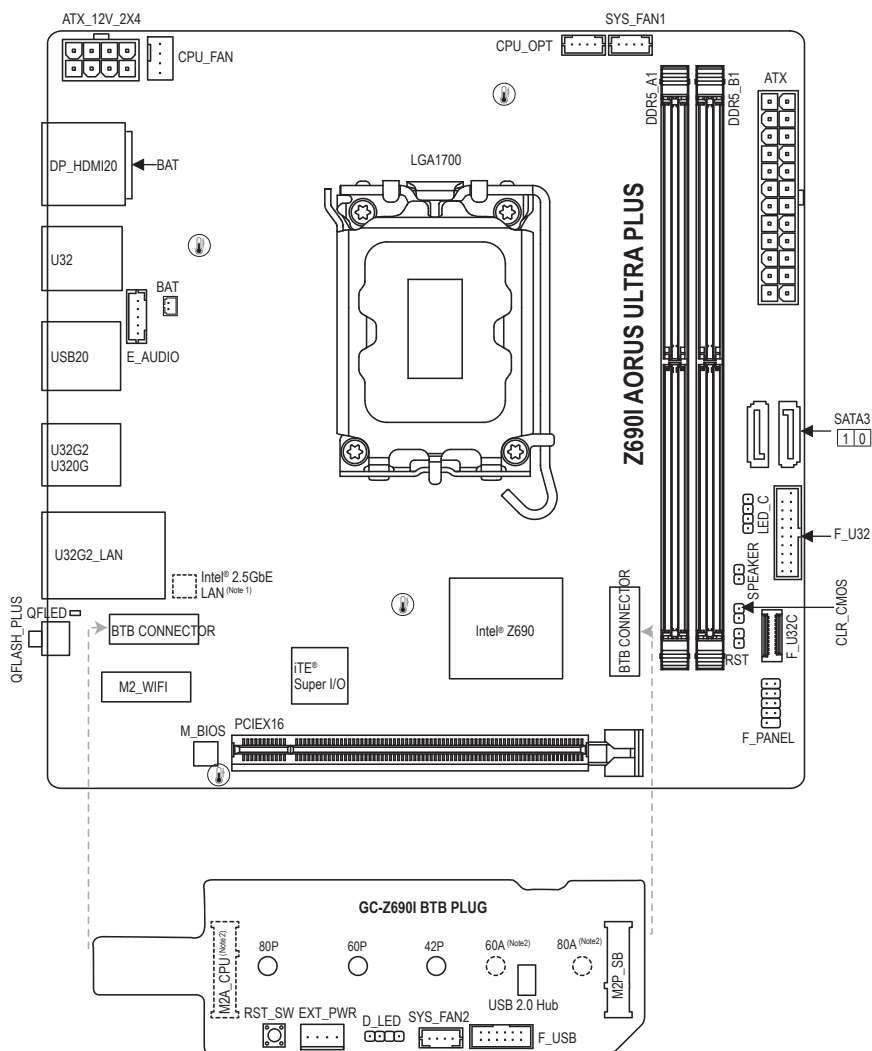


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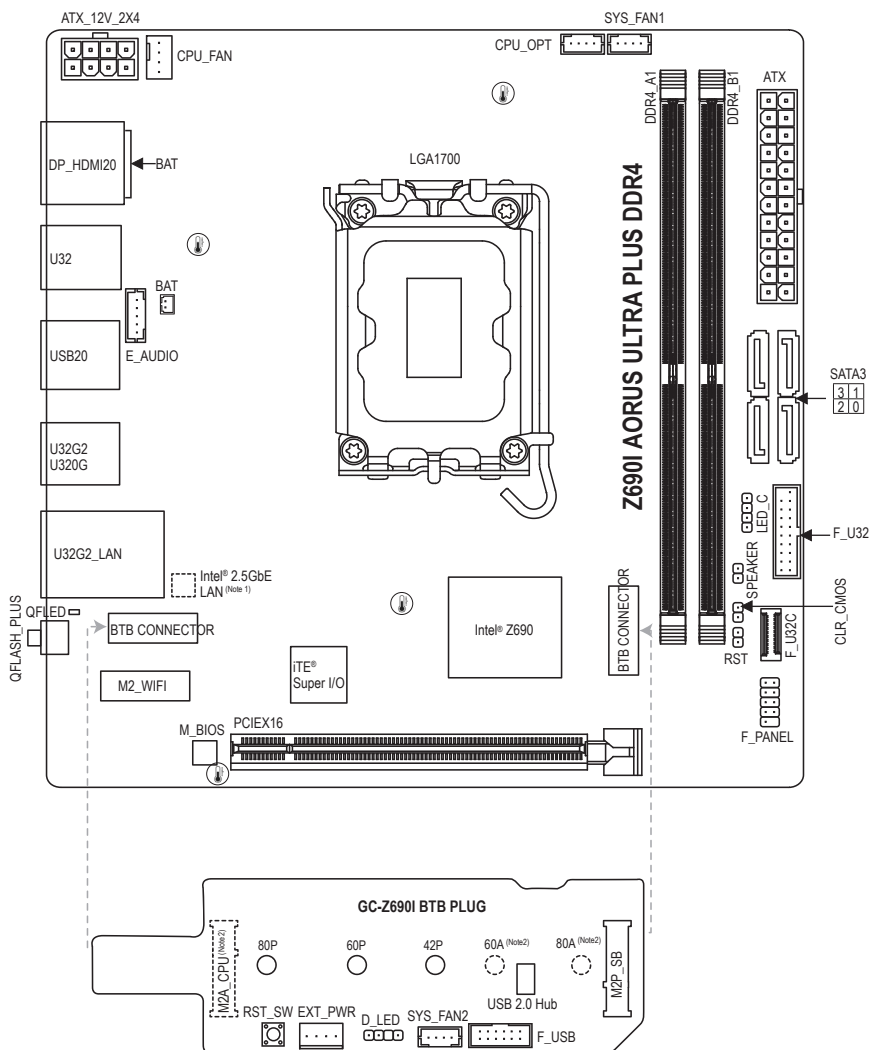
Chapter 1 Product Introduction

1-1 Motherboard Layout



(Note 1) The connector/chip is on the back of the motherboard.

(Note 2) The connector is on the back of GC-Z690I BTB PLUG.

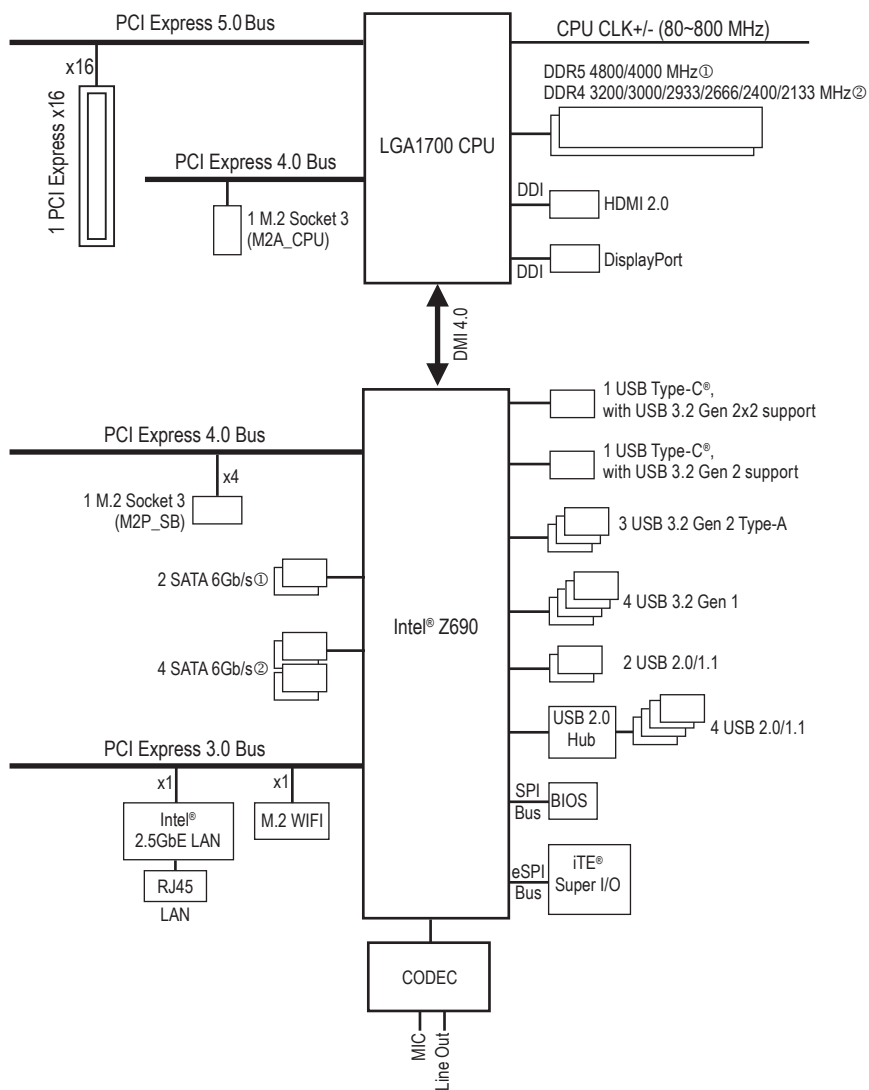


Temperature sensor

(Note 1) The connector/chip is on the back of the motherboard.

(Note 2) The connector is on the back of GC-Z690I BTB PLUG.

1-2 Motherboard Block Diagram



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② Only for Z690I AORUS ULTRA PLUS DDR4.

1-3 Box Contents

- ☒ Z690I AORUS ULTRA PLUS or Z690I AORUS ULTRA PLUS DDR4 motherboard
- ☒ User's Manual
- ☒ One antenna
- ☒ Two SATA cables
- ☒ One RGB LED strip extension cable
- ☒ One front USB header extension cable
- ☒ Three fan power extension cables
- ☒ One external power cable
- ☒ M.2 screws

* The box contents above are for reference only and the actual items shall depend on the product package you obtain.
The box contents are subject to change without notice.

Chapter 2 Hardware Installation

2-1 Installation Precautions

The motherboard contains numerous delicate electronic circuits and components which can become damaged as a result of electrostatic discharge (ESD). Prior to installation, carefully read the user's manual and follow these procedures:

- Prior to installation, make sure the chassis is suitable for the motherboard.
- Prior to installation, do not remove or break motherboard S/N (Serial Number) sticker or warranty sticker provided by your dealer. These stickers are required for warranty validation.
- Always remove the AC power by unplugging the power cord from the power outlet before installing or removing the motherboard or other hardware components.
- When connecting hardware components to the internal connectors on the motherboard, make sure they are connected tightly and securely.
- When handling the motherboard, avoid touching any metal leads or connectors.
- It is best to wear an electrostatic discharge (ESD) wrist strap when handling electronic components such as a motherboard, CPU or memory. If you do not have an ESD wrist strap, keep your hands dry and first touch a metal object to eliminate static electricity.
- Prior to installing the motherboard, please have it on top of an antistatic pad or within an electrostatic shielding container.
- Before connecting or unplugging the power supply cable from the motherboard, make sure the power supply has been turned off.
- Before turning on the power, make sure the power supply voltage has been set according to the local voltage standard.
- Before using the product, please verify that all cables and power connectors of your hardware components are connected.
- To prevent damage to the motherboard, do not allow screws to come in contact with the motherboard circuit or its components.
- Make sure there are no leftover screws or metal components placed on the motherboard or within the computer casing.
- Do not place the computer system on an uneven surface.
- Do not place the computer system in a high-temperature or wet environment.
- Turning on the computer power during the installation process can lead to damage to system components as well as physical harm to the user.
- If you are uncertain about any installation steps or have a problem related to the use of the product, please consult a certified computer technician.
- If you use an adapter, extension power cable, or power strip, ensure to consult with its installation and/or grounding instructions.

2-2 Product Specifications

 CPU	♦ LGA1700 socket: Support for 12th Generation Intel® Core™, Pentium® Gold and Celeron® Processors (Go to GIGABYTE's website for the latest CPU support list.) ♦ L3 cache varies with CPU
 Chipset	♦ Intel® Z690 Express Chipset
 Memory	♦ Support for DDR5 4800/4000 MHz memory modules^① ♦ Support for DDR4 3200/3000/2933/2666/2400/2133 MHz memory modules^② ♦ 2 x DDR DIMM sockets supporting up to 64 GB (32 GB single DIMM capacity) of system memory ♦ Dual channel memory architecture ♦ Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules (operate in non-ECC mode) ♦ Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules ♦ Support for Extreme Memory Profile (XMP) memory modules (Go to GIGABYTE's website for the latest supported memory speeds and memory modules.)
 Onboard Graphics	♦ Integrated Graphics Processor-Intel® HD Graphics support: - 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz * Support for HDMI 2.0 version and HDCP 2.3. - 1 x DisplayPort port, supporting a maximum resolution of 5120x2160@60 Hz * Support for DisplayPort 1.4 version and HDCP 2.3 * The DisplayPort does not support HDMI connection by adapter. (Graphics specifications may vary depending on CPU support.)
 Audio	♦ Realtek® ALC4080 CODEC ♦ Support for DTS:X® Ultra ♦ High Definition Audio ♦ 2-channel
 LAN	♦ Intel® 2.5GbE LAN chip (2.5 Gbps/1 Gbps/100 Mbps)
 Wireless Communication Module	♦ Intel® Wi-Fi 6E AX411 - WIFI a, b, g, n, ac, ax, supporting 2.4/5/6 GHz carrier frequency bands - BLUETOOTH 5.2 - Support for 11ax 160MHz wireless standard and up to 2.4 Gbps data rate * Actual data rate may vary depending on environment and equipment.
 Expansion Slots	♦ 1 x PCI Express x16 slot, running at x16 (The PCI Express x16 slot conforms to PCI Express 5.0 standard.)
 Storage Interface	♦ CPU: - 1 x M.2 connector on the back of the GC-Z690I BTB PLUG (Socket 3, M key, type 2260/2280 PCIe 4.0 x4/x2 SSD support) (M2A_CPU) ♦ Chipset: - 1 x M.2 connector on the front of GC-Z690I BTB PLUG (Socket 3, M key, type 2242/2260/2280 PCIe 4.0 x4/x2 SSD support) (M2P_SB) - 2 x SATA 6Gb/s connectors^① - 4 x SATA 6Gb/s connectors^② ♦ Support for RAID 0, RAID 1, RAID 5^②, and RAID 10^② ♦ Intel® Optane™ Memory Ready * System acceleration with Intel® Optane™ Memory can only be enabled on the M.2 connector supported by the Chipset.

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	USB	♦ Chipset: - 1 x USB Type-C® port on the back panel, with USB 3.2 Gen 2x2 support - 1 x USB Type-C® port with USB 3.2 Gen 2 support, available through the internal USB header - 3 x USB 3.2 Gen 2 Type-A ports (red) on the back panel - 4 x USB 3.2 Gen 1 ports (2 ports on the back panel, 2 ports available through the internal USB header) - 2 x USB 2.0/1.1 ports on the back panel ♦ Chipset+USB 2.0 Hub: - 4 x USB 2.0/1.1 ports available through the USB headers on the front of GC-Z690I BTB PLUG
	Internal Connectors	♦ 1 x 24-pin ATX main power connector ♦ 1 x 8-pin ATX 12V power connector ♦ 1 x external power connector ^(Note 1) ♦ 1 x CPU fan header ♦ 1 x water cooling CPU fan header ♦ 2 x system fan headers(SYS_FAN1/SYS_FAN2 ^(Note 1)) ♦ 1 x addressable LED strip header ^(Note 1) ♦ 1 x RGB LED strip header ♦ 2 x M.2 Socket 3 connectors(M2A_CPU ^(Note 2)/M2P_SB ^(Note 1)) ♦ 2 x SATA 6Gb/s connectors① ♦ 4 x SATA 6Gb/s connectors② ♦ 1 x front panel header ♦ 1 x front panel audio header(routed from the adapter card on the rear panel) ♦ 1 x speaker header ♦ 1 x USB Type-C® header, with USB 3.2 Gen 2 support ♦ 1 x USB 3.2 Gen 1 header ♦ 1 x USB 2.0/1.1 header ^(Note 1) ♦ 1 x reset button ^(Note 1) ♦ 1 x reset jumper ♦ 1 x Clear CMOS jumper
	Back Panel Connectors	♦ 2 x SMA antenna connectors (2T2R) ♦ 1 x DisplayPort ♦ 1 x HDMI 2.0 port ♦ 1 x USB Type-C® port, with USB 3.2 Gen 2x2 support ♦ 3 x USB 3.2 Gen 2 Type-A ports (red) ♦ 2 x USB 3.2 Gen 1 ports ♦ 2 x USB 2.0/1.1 ports ♦ 1 x Q-Flash Plus button ♦ 1 x RJ-45 port ♦ 2 x audio jacks

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(Note 1) The connector is on the front of GC-Z690I BTB PLUG.

(Note 2) The connector is on the back of GC-Z690I BTB PLUG.

	I/O Controller	♦ iTE® I/O Controller Chip
	Hardware Monitor	♦ Voltage detection ♦ Temperature detection ♦ Fan speed detection ♦ Water cooling flow rate detection ♦ Fan fail warning ♦ Fan speed control * Whether the fan speed control function is supported will depend on the cooler you install.
	BIOS	♦ 1 x 256 Mbit flash ♦ Use of licensed AMI UEFI BIOS ♦ PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0
	Unique Features	♦ Support for APP Center * Available applications in APP Center may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications. - @BIOS - EasyTune - Fast Boot - Game Boost - ON/OFF Charge - RGB Fusion - Smart Backup - System Information Viewer ♦ Support for Q-Flash Plus ♦ Support for Q-Flash ♦ Support for Xpress Install
	Bundled Software	♦ Norton® Internet Security (OEM version) ♦ LAN bandwidth management software
	Operating System	♦ Support for Windows 11 64-bit ♦ Support for Windows 10 64-bit
	Form Factor	♦ Mini-ITX Form Factor; 17.0cm x 17.0cm

* GIGABYTE reserves the right to make any changes to the product specifications and product-related information without prior notice.

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Please visit GIGABYTE's website for support lists of CPU, memory modules, SSDs, and M.2 devices.



Please visit the **Support/Utility** page on GIGABYTE's website to download the latest version of apps.

2-3 Installing the CPU and CPU Cooler

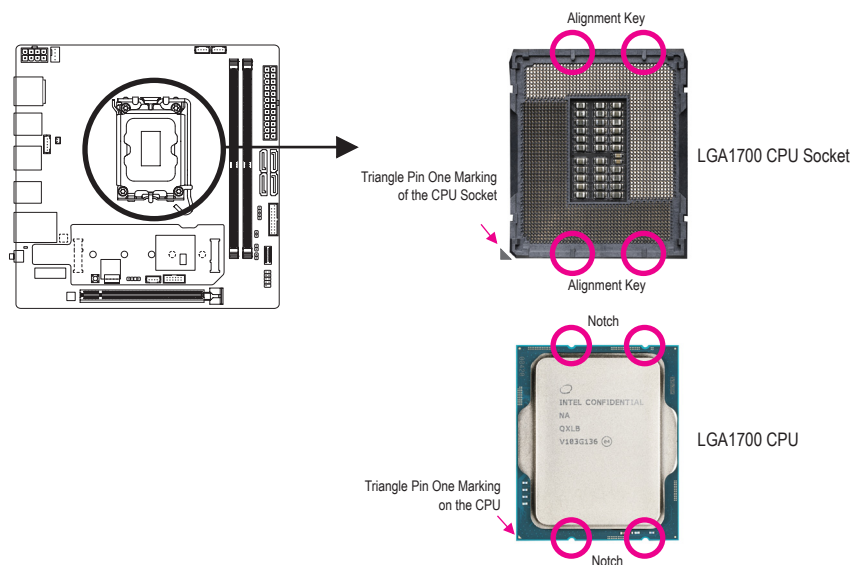


Read the following guidelines before you begin to install the CPU:

- Make sure that the motherboard supports the CPU.
(Go to GIGABYTE's website for the latest CPU support list.)
- Always turn off the computer and unplug the power cord from the power outlet before installing the CPU to prevent hardware damage.
- Locate the pin one of the CPU. The CPU cannot be inserted if oriented incorrectly. (Or you may locate the notches on both sides of the CPU and alignment keys on the CPU socket.)
- Apply an even and thin layer of thermal grease on the surface of the CPU.
- Do not turn on the computer if the CPU cooler is not installed, otherwise overheating and damage of the CPU may occur.
- Set the CPU host frequency in accordance with the CPU specifications. It is not recommended that the system bus frequency be set beyond hardware specifications since it does not meet the standard requirements for the peripherals. If you wish to set the frequency beyond the standard specifications, please do so according to your hardware specifications including the CPU, graphics card, memory, hard drive, etc.

A. Note the CPU Orientation

Note the alignment keys on the motherboard CPU socket and the notches on the CPU.



Do not remove the CPU socket cover before inserting the CPU. It may pop off from the load plate automatically after you insert the CPU and close the load plate.



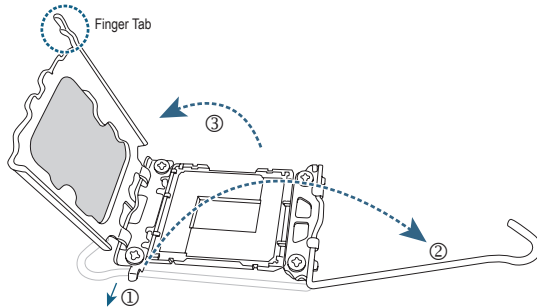
Please visit GIGABYTE's website for details on hardware installation.

B. Installing the CPU

Follow the steps below to correctly install the CPU into the motherboard CPU socket.

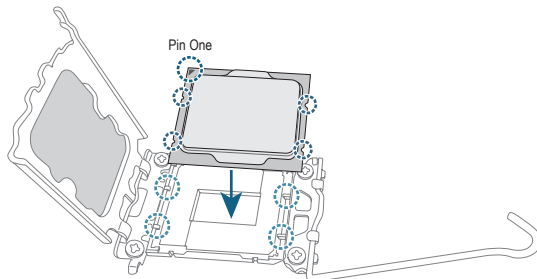
❶

- ① Gently press the CPU socket lever handle down and away from the socket.
- ② Completely lift up the CPU socket locking lever.
- ③ Use the finger tab on the side of the metal load plate to lift open the metal load plate with the plastic protective cover attached to it.



❷

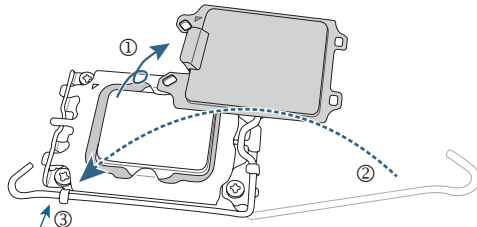
Hold the CPU with your fingers by the edges. Align the CPU pin one marking (triangle) with the pin one corner of the CPU socket (or you may align the CPU notches with the socket alignment keys) and gently insert the CPU into position.



❸

Make sure the CPU is properly installed and then close the load plate. The plastic protective cover will pop off, just remove it. Secure the lever under its retention tab to complete the installation of the CPU.

* Always replace the plastic protective cover when the CPU is not installed to protect the CPU socket.



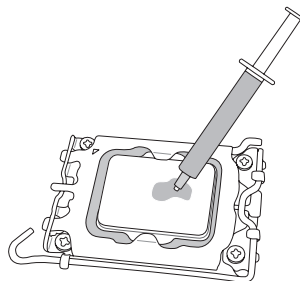
Do not force to engage the CPU socket locking lever when the CPU is not installed correctly as this would damage the CPU and CPU socket.

C. Installing the CPU Cooler

Be sure to install the CPU cooler after installing the CPU. (Actual installation process may differ depending the CPU cooler to be used. Refer to the user's manual for your CPU cooler.)

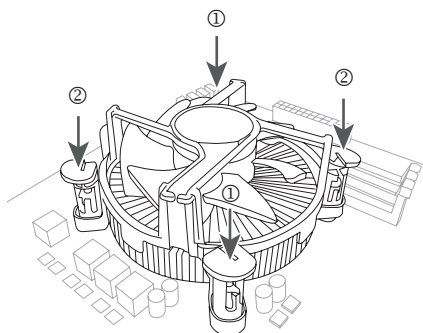
①

Apply an even and thin layer of thermal grease on the surface of the installed CPU.



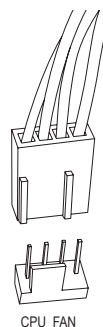
②

Place the cooler atop the CPU, aligning the four push pins through the pin holes on the motherboard. Push down on the push pins diagonally.



③

Finally, attach the power connector of the CPU cooler to the CPU fan header (CPU_FAN) on the motherboard.



2-4 Installing the Memory



Read the following guidelines before you begin to install the memory:

- Make sure that the motherboard supports the memory. It is recommended that memory of the same capacity, brand, speed, and chips be used. (Go to GIGABYTE's website for the latest supported memory speeds and memory modules.)
- Always turn off the computer and unplug the power cord from the power outlet before installing the memory to prevent hardware damage.
- Memory modules have a foolproof design. A memory module can be installed in only one direction. If you are unable to insert the memory, switch the direction.

Dual Channel Memory Configuration

This motherboard provides two memory sockets and supports Dual Channel Technology. After the memory is installed, the BIOS will automatically detect the specifications and capacity of the memory. Enabling Dual Channel memory mode will double the original memory bandwidth.

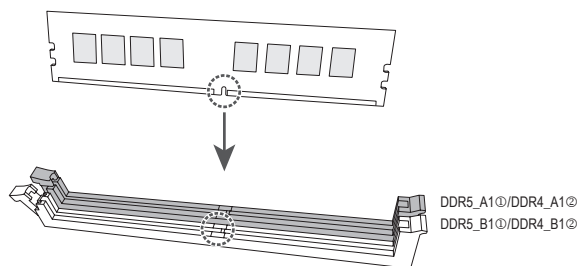
The two memory sockets are divided into two channels and each channel has one memory socket as following:

▶▶ Channel A: DDR5_A1①,DDR4_A1②

▶▶ Channel B: DDR5_B1①,DDR4_B1②

Due to CPU limitations, read the following guidelines before installing the memory in Dual Channel mode.

1. Dual Channel mode cannot be enabled if only one memory module is installed.
2. When enabling Dual Channel mode with two memory modules, it is recommended that memory of the same capacity, brand, speed, and chips be used.



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2-5 Installing an Expansion Card

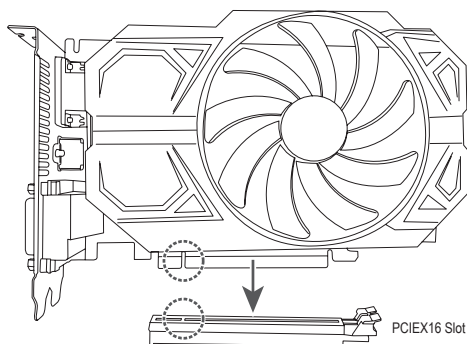


Read the following guidelines before you begin to install an expansion card:

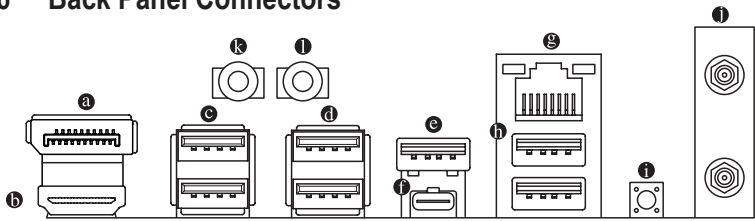
- Make sure the motherboard supports the expansion card. Carefully read the manual that came with your expansion card.
- Always turn off the computer and unplug the power cord from the power outlet before installing an expansion card to prevent hardware damage.

Follow the steps below to correctly install your expansion card in the expansion slot.

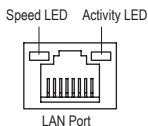
1. Locate an expansion slot that supports your card. Remove the metal slot cover from the chassis back panel.
2. Align the card with the slot, and press down on the card until it is fully seated in the slot.
3. Make sure the metal contacts on the card are completely inserted into the slot.
4. Secure the card's metal bracket to the chassis back panel with a screw.
5. After installing all expansion cards, replace the chassis cover(s).
6. Turn on your computer. If necessary, go to BIOS Setup to make any required BIOS changes for your expansion card(s).
7. Install the driver provided with the expansion card in your operating system.



2-6 Back Panel Connectors



- a DisplayPort (Note 1)**
DisplayPort delivers high quality digital imaging and audio, supporting bi-directional audio transmission. DisplayPort can support HDCP 2.3 content protection mechanisms. You can use this port to connect your DisplayPort-supported monitor. Note: The DisplayPort Technology can support a maximum resolution of 5120x2160@60 Hz but the actual resolutions supported
- b HDMI 2.0 Port**
HDMI™ The HDMI port supports HDCP 2.3 and Dolby TrueHD and DTS HD Master Audio formats. It also supports up to 192KHz/24bit 7.1-channel LPCM audio output. You can use this port to connect your HDMI-supported monitor. The maximum supported resolution is 4096x2160@60 Hz, but the actual resolutions supported are dependent on the monitor being used.
 After installing the DisplayPort/HDMI device, make sure to set the default sound playback device to DisplayPort/HDMI. (The item name may differ depending on your operating system.)
- c USB 3.2 Gen 1 Port**
The USB 3.2 Gen 1 port supports the USB 3.2 Gen 1 specification and is compatible to the USB 2.0 specification. Use this port for USB devices.
- d USB 2.0/1.1 Port**
The USB port supports the USB 2.0/1.1 specification. Use this port for USB devices.
- e USB 3.2 Gen 2 Type-A Port (Q-Flash Plus Port)**
The USB 3.2 Gen 2 port supports the USB 3.2 Gen 2 specification and is compatible to the USB 3.2 Gen 1 and USB 2.0 specification. Use this port for USB devices. Before using Q-Flash Plus (Note 2), make sure to insert the USB flash drive into this port first.
- f USB Type-C® Port**
The reversible USB port supports the USB 3.2 Gen 2x2 specification and is compatible to the USB 3.2 Gen 2, USB 3.2 Gen 1, and USB 2.0 specifications. Use this port for USB devices.
- g RJ-45 LAN Port**
The Gigabit Ethernet LAN port provides Internet connection at up to 2.5 Gbps data rate. The following describes the states of the LAN port LEDs.



Speed LED:	
State	Description
Green	2.5 Gbps data rate
Orange	1 Gbps data rate
Off	100 Mbps data rate

Activity LED:	
State	Description
Blinking	Data transmission or receiving is occurring
On	No data transmission or receiving is occurring



- When removing the cable connected to a back panel connector, first remove the cable from your device and then remove it from the motherboard.
- When removing the cable, pull it straight out from the connector. Do not rock it side to side to prevent an electrical short inside the cable connector.

❶ **USB 3.2 Gen 2 Type-A Port (Red)**

The USB 3.2 Gen 2 port supports the USB 3.2 Gen 2 specification and is compatible to the USB 3.2 Gen 1 and USB 2.0 specification. Use this port for USB devices.

❷ **Q-Flash Plus Button** (Note 2)

Q-Flash Plus allows you to update the BIOS when your system is off (S5 shutdown state). Save the latest BIOS on a USB thumb drive and plug it into the dedicated port, and then you can now flash the BIOS automatically by simply pressing the Q-Flash Plus button. The QFLED will flash when the BIOS matching and flashing activities start and will stop flashing when the main BIOS flashing is complete.

❸ **SMA Antenna Connectors (2T2R)**

Use this connector to connect an antenna.



Tighten the antennas to the antenna connectors and then aim the antennas correctly for better signal reception.

❹ **Line Out**

The line out jack. For better sound quality, it is recommended that you connect your headphone/speaker to this jack (actual effects may vary by the device being used).

❺ **Mic In**

The Mic in jack.

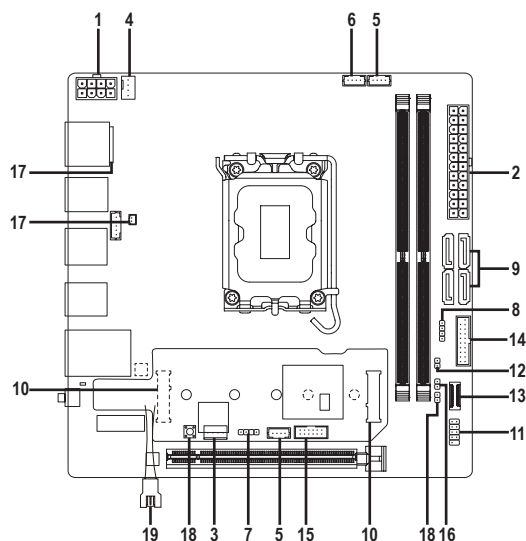
(Note 1) The DisplayPort does not support HDMI connection by adapter.

(Note 2) To enable the Q-Flash Plus function, please navigate to the "Unique Features" page of GIGABYTE's website for more information.



Please visit GIGABYTE's website for details on configuring the audio software.

2-7 Internal Connectors



1) ATX_12V_2X4	11) F_PANEL
2) ATX	12) SPEAKER
3) EXT_PWR (Note 1)	13) F_U32C
4) CPU_FAN	14) F_U32
5) SYS_FAN1/SYS_FAN2 (Note1)	15) F_USB (Note 1)
6) CPU_OPT	16) CLR_CMOS
7) D_LED (Note1)	17) BAT
8) LED_C	18) RST_SW (Note 1)/RST
9) SATA3 0/1①, SATA3 0/1/2/3②	19) F_AUDIO
10) M2A_CPU (Note 2)/M2P_SB (Note1)	

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(Note 1) The connector is on the front of GC-Z690I BTB PLUG.

(Note 2) The connector is on the back of GC-Z690I BTB PLUG.



Read the following guidelines before connecting external devices:

- First make sure your devices are compliant with the connectors you wish to connect.
- Before installing the devices, be sure to turn off the devices and your computer. Unplug the power cord from the power outlet to prevent damage to the devices.
- After installing the device and before turning on the computer, make sure the device cable has been securely attached to the connector on the motherboard.

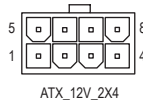
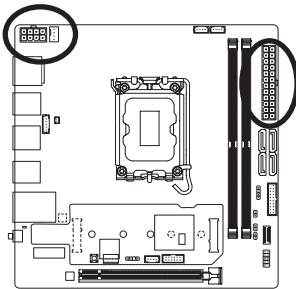
1/2) ATX_12V_2X4/ATX (2x4 12V Power Connector and 2x12 Main Power Connector)

With the use of the power connector, the power supply can supply enough stable power to all the components on the motherboard. Before connecting the power connector, first make sure the power supply is turned off and all devices are properly installed. The power connector possesses a foolproof design. Connect the power supply cable to the power connector in the correct orientation.

The 12V power connector mainly supplies power to the CPU. If the 12V power connector is not connected, the computer will not start.

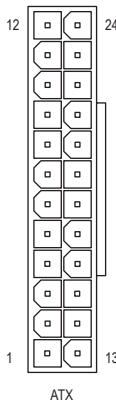


To meet expansion requirements, it is recommended that a power supply that can withstand high power consumption be used (500W or greater). If a power supply is used that does not provide the required power, the result can lead to an unstable or unbootable system.



ATX_12V_2X4:

Pin No.	Definition
1	GND (Only for 2x4-pin 12V)
2	GND (Only for 2x4-pin 12V)
3	GND
4	GND
5	+12V (Only for 2x4-pin 12V)
6	+12V (Only for 2x4-pin 12V)
7	+12V
8	+12V

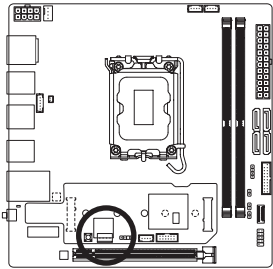


ATX:

Pin No.	Definition	Pin No.	Definition
1	3.3V	13	3.3V
2	3.3V	14	-12V
3	GND	15	GND
4	+5V	16	PS_ON (soft On/Off)
5	GND	17	GND
6	+5V	18	GND
7	GND	19	GND
8	Power Good	20	NC
9	5VSB (stand by +5V)	21	+5V
10	+12V	22	+5V
11	+12V (Only for 2x12-pin ATX)	23	+5V (Only for 2x12-pin ATX)
12	3.3V (Only for 2x12-pin ATX)	24	GND (Only for 2x12-pin ATX)

3) **EXT_PWR** ^(Note) **(External Power Connector)**

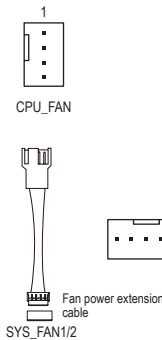
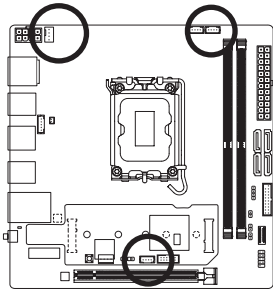
Connect one end of the EXT_PWR cable to this connector and the other end to your power supply.



Pin No.	Definition
1	VCC
2	GND
3	GND
4	+12V

4/5) **CPU_FAN/SYS_FAN1/SYS_FAN2** ^(Note) **(Fan Headers)**

All fan headers on this motherboard are 4-pin. Most fan headers possess a foolproof insertion design. When connecting a fan cable, be sure to connect it in the correct orientation (the black connector wire is the ground wire). The speed control function requires the use of a fan with fan speed control design. For optimum heat dissipation, it is recommended that a system fan be installed inside the chassis.

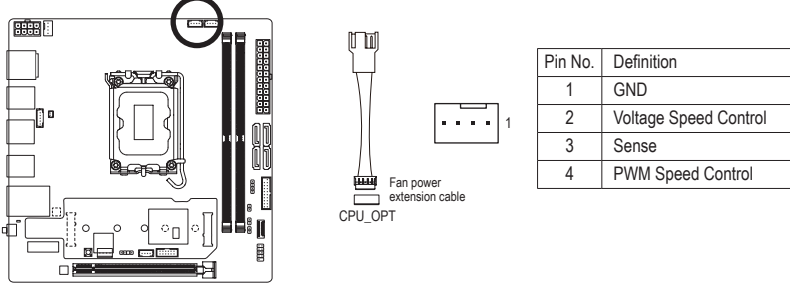


Pin No.	Definition
1	GND
2	Voltage Speed Control
3	Sense
4	PWM Speed Control

(Note) The connector is on the front of GC-Z690I BTB PLUG.

6) CPU_OPT (Water Cooling CPU Fan Header)

The fan header is 4-pin and possesses a foolproof insertion design. Most fan headers possess a foolproof insertion design. When connecting a fan cable, be sure to connect it in the correct orientation (the black connector wire is the ground wire). The speed control function requires the use of a fan with fan speed control design.

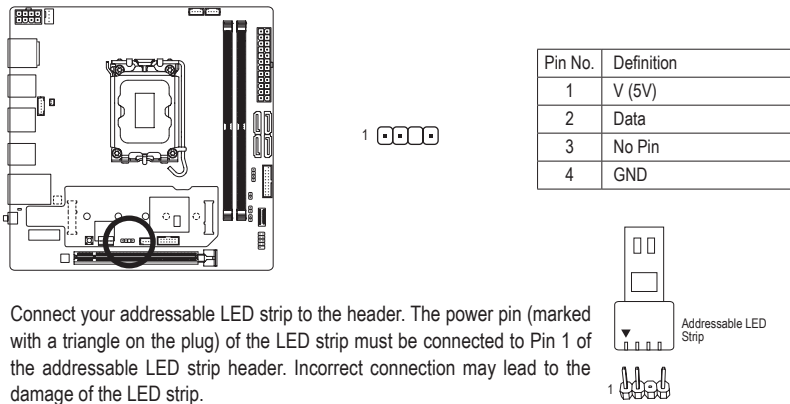


Connector	CPU_FAN	SYS_FAN1	SYS_FAN2	CPU_OPT
Maximum Current	2A	2A	2A	2A
Maximum Power	24W	24W	24W	24W

-
- Be sure to connect fan cables to the fan headers to prevent your CPU and system from overheating. Overheating may result in damage to the CPU or the system may hang.
 - These fan headers are not configuration jumper blocks. Do not place a jumper cap on the headers.

7) D_LED (Note) (Addressable LED Strip Header)

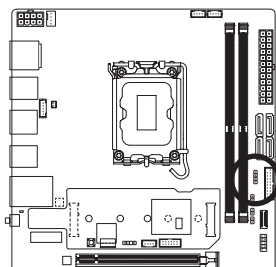
The header can be used to connect a standard 5050 addressable LED strip, with maximum power rating of 5A (5V) and maximum number of 1000 LEDs.



(Note) The connector is on the front of GC-Z690I BTB PLUG.

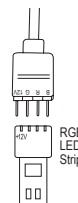
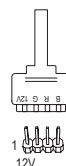
8) LED_C (RGB LED Strip Header)

The header can be used to connect a standard 5050 RGB LED strip (12V/G/R/B), with maximum power rating of 2A (12V) and maximum length of 2m.



Pin No.	Definition
1	12V
2	G
3	R
4	B

Connect one end of the RGB LED strip extension cable to the header and the other end to your RGB LED strip. The black wire (marked with a triangle on the plug) of the extension cable must be connected to Pin 1 (12V) of this header. The 12V pin (marked with an arrow) on the other end of the extension cable must be lined up with the 12V of the LED strip. Be careful with the connection orientation of the LED strip; incorrect connection may lead to the damage of the LED strip.



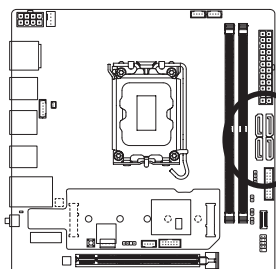
For how to turn on/off the lights of the LED strip, please navigate to the "Unique Features" page of GIGABYTE's website.



Before installing the devices, be sure to turn off the devices and your computer. Unplug the power cord from the power outlet to prevent damage to the devices.

9) SATA3 0/1①, SATA3 0/1/2/3② (SATA 6Gb/s Connectors)

The SATA connectors conform to SATA 6Gb/s standard and are compatible with SATA 3Gb/s and SATA 1.5Gb/s standard. Each SATA connector supports a single SATA device. The Intel® Chipset supports RAID 0, RAID 1, RAID 5②, and RAID 10②. Please navigate to the "Configuring a RAID Set" page of GIGABYTE's website for instructions on configuring a RAID array.



Pin No.	Definition
1	GND
2	TXP
3	TXN
4	GND
5	RXN
6	RXP
7	GND

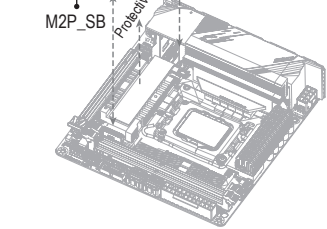
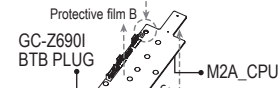
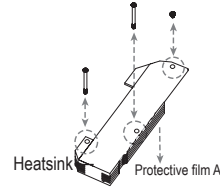
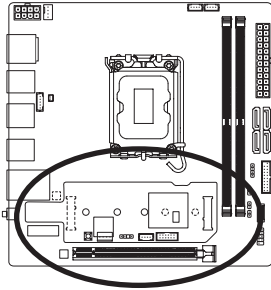


To enable hot-plugging for the SATA ports, please visit the "BIOS Setup," "SATA And RST Configuration," webpage of GIGABYTE's website for more information.

- ① Only for Z690I AORUS ULTRA PLUS.
- ② Only for Z690I AORUS ULTRA PLUS DDR4.

10) **M2A_CPU** (Note 1) / **M2P_SB** (Note 2) (**M.2 Socket 3 Connectors**)

There are two types of M.2 SSDs: M.2 SATA SSDs and M.2 PCIe SSDs. This motherboard only supports M.2 PCIe SSDs. Be sure to verify the type of M.2 SSDs you want to use. Please note that an M.2 PCIe SSD cannot be used to create a RAID set with a SATA hard drive. Please navigate to the "Configuring a RAID Set" page of GIGABYTE's website for instructions on configuring a RAID array.



M2A_CPU (Note 1)



60A

80A

80P

60P

42P

M2P_SB (Note 2)



Follow the steps below to correctly install an M.2 SSD in the M.2 connector on GC-Z690I BTB PLUG.

Step 1:
Use a screwdriver to unfasten the screw on the heatsink and then remove the heatsink.

Step 2:
M2A_CPU:
● To use the M2A_CPU connector, you have to remove GC-Z690I BTB PLUG from the motherboard first. Use a screwdriver to remove the screw from GC-Z690I BTB PLUG. Lift GC-Z690I BTB PLUG upwards and remove it.
● Remove protective film C.

M2P_SB:
Remove protective films A and B.

Step 3:
Locate the proper mounting hole based on the length of your M.2 SSD drive. If needed, move the standoff to the desired mounting hole. Insert the M.2 SSD into the M.2 connector at an angle. Press the M.2 SSD down and then use the included screw to secure it in the connector.

Step 4:
M2A_CPU:
Insert GC-Z690I BTB PLUG vertically into the BTB connectors and secure it with the screw. Then screw the heatsink back on.
M2P_SB:
Screw the heatsink back on.

* Types of M.2 SSDs supported by each M.2 connector:

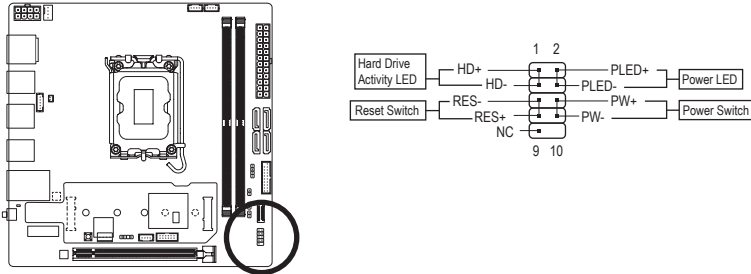
	M.2 PCIe x4 SSD	M.2 PCIe x2 SSD	M.2 SATA SSD
M2A_CPU	✓	✓	✗
M2P_SB	✓	✓	✗

(Note 1) The connector is on the back of GC-Z690I BTB PLUG.

(Note 2) The connector is on the front of GC-Z690I BTB PLUG.

11) F_PANEL (Front Panel Header)

Connect the power switch, reset switch, and system status indicator on the chassis to this header according to the pin assignments below. Note the positive and negative pins before connecting the cables.



- PLED (Power LED):**

System Status	LED
S0	On
S3/S4/S5	Off

Connects to the power status indicator on the chassis front panel. The LED is on when the system is operating. The LED is off when the system is in S3/S4 sleep state or powered off (S5).

- PW (Power Switch):**

Connects to the power switch on the chassis front panel. You may configure the way to turn off your system using the power switch (please visit the "BIOS Setup," "Settings\Platform Power," webpage of GIGABYTE's website for more information).

- HD (Hard Drive Activity LED):**

Connects to the hard drive activity LED on the chassis front panel. The LED is on when the hard drive is reading or writing data.

- RES (Reset Switch):**

Connects to the reset switch on the chassis front panel. Press the reset switch to restart the computer if the computer freezes and fails to perform a normal restart.

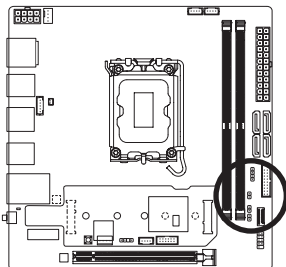
- NC: No connection.**



The front panel design may differ by chassis. A front panel module mainly consists of power switch, reset switch, power LED, hard drive activity LED and etc. When connecting your chassis front panel module to this header, make sure the wire assignments and the pin assignments are matched correctly.

12) SPEAKER (Speaker Header)

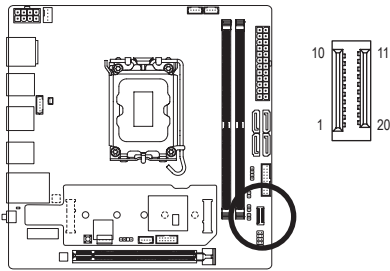
The system reports system startup status by issuing a beep code. One single short beep will be heard if no problem is detected at system startup. This header can also provide audio output in the operating system.



Pin No.	Definition
1	SPK+
2	SPK-

13) **F_U32C (USB Type-C® Header with USB 3.2 Gen 2 Support)**

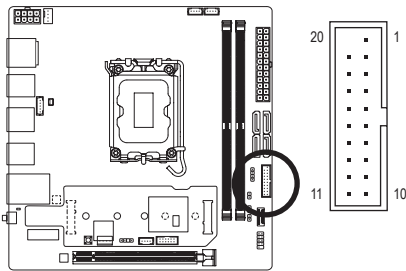
The header conforms to USB 3.2 Gen 2 specification and can provide one USB port.



Pin No.	Definition	Pin No.	Definition
1	VBUS	11	VBUS
2	TX1+	12	TX2+
3	TX1-	13	TX2-
4	GND	14	GND
5	RX1+	15	RX2+
6	RX1-	16	RX2-
7	VBUS	17	GND
8	CC1	18	D-
9	SBU1	19	D+
10	SBU2	20	CC2

14) **F_U32 (USB 3.2 Gen 1 Header)**

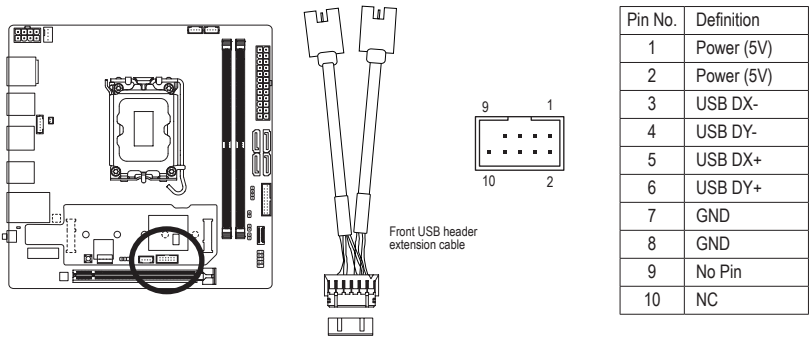
The header conforms to USB 3.2 Gen 1 and USB 2.0 specification and can provide two USB ports. For purchasing the optional 3.5" front panel that provides two USB 3.2 Gen 1 ports, please contact the local dealer.



Pin No.	Definition	Pin No.	Definition
1	VBUS	11	D2+
2	SSRX1-	12	D2-
3	SSRX1+	13	GND
4	GND	14	SSTX2+
5	SSTX1-	15	SSTX2-
6	SSTX1+	16	GND
7	GND	17	SSRX2+
8	D1-	18	SSRX2-
9	D1+	19	VBUS
10	NC	20	No Pin

15) F_USB (Note) (USB 2.0/1.1 Header)

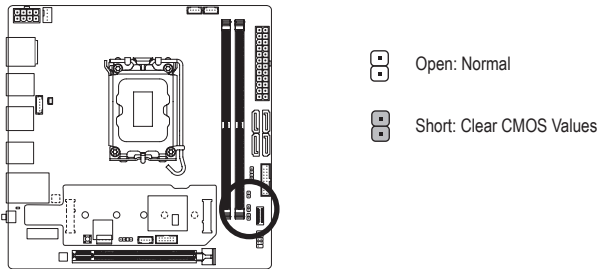
Connect one end of the front USB header extension cable to this header and the other ends to two USB brackets. The header conforms to USB 2.0/1.1 specification. Each USB header can provide two USB ports via an optional USB bracket. For purchasing the optional USB bracket, please contact the local dealer.



- Do not plug the IEEE 1394 bracket (2x5-pin) cable into the USB 2.0/1.1 header.
- Prior to installing the USB bracket, be sure to turn off your computer and unplug the power cord from the power outlet to prevent damage to the USB bracket.

16) CLR_CMOS (Clear CMOS Jumper)

Use this jumper to clear the BIOS configuration and reset the CMOS values to factory defaults. To clear the CMOS values, use a metal object like a screwdriver to touch the two pins for a few seconds.

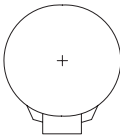
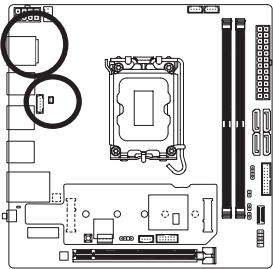


- Always turn off your computer and unplug the power cord from the power outlet before clearing the CMOS values.
- After system restart, go to BIOS Setup to load factory defaults (select Load Optimized Defaults) or manually configure the BIOS settings (please navigate to the "BIOS Setup" page of GIGABYTE's website for more information).

(Note) The connector is on the front of GC-Z690I BTB PLUG.

17) BAT (Battery)

The battery provides power to keep the values (such as BIOS configurations, date, and time information) in the CMOS when the computer is turned off. Replace the battery when the battery voltage drops to a low level, or the CMOS values may not be accurate or may be lost.



1 (+)
2 (-)

You may clear the CMOS values by removing the battery:

- 1. Turn off your computer and unplug the power cord.
- 2. Unplug the the battery cable from the battery cable header and wait for one minute.
- 3. Plug in the battery cable.
- 4. Plug in the power cord and restart your computer.

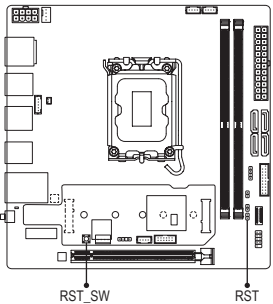
Pin No.	Definition
1 (+)	RTC Power
2 (-)	GND



- Always turn off your computer and unplug the power cord before replacing the battery.
- Replace the battery with an equivalent one. Damage to your devices may occur if the battery is replaced with an incorrect model.
- Contact the place of purchase or local dealer if you are not able to replace the battery by yourself or uncertain about the battery model.
- Used batteries must be handled in accordance with local environmental regulations.

18) RST_SW (Note) /RST (Reset Button/Reset Jumper)

The reset button (RST_SW) allows users to quickly turn on/off the computer in an open-case environment when they want to change hardware components or conduct hardware testing. The reset jumper (RST) can connect to the reset switch on the chassis front panel. Press the reset switch to restart the computer if the computer freezes and fails to perform a normal restart.



1
RST

RST_SW

Pin No.	Definition
1	Reset
2	GND



The reset button (RST_SW)/rest jumper (RST) provides you with several functions to use. To remap the button to perform different tasks, please navigate to the "BIOS Setup" page of GIGABYTE's website and search for "RST_SW (MULTIKEY)" for more information.

(Note) The connector is on the front of GC-Z690I BTB PLUG.

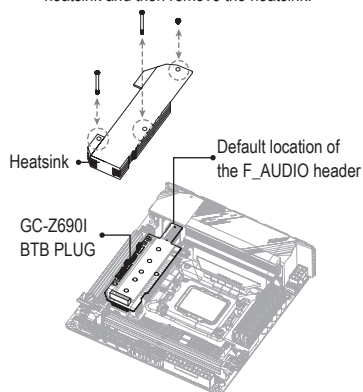
19) F_AUDIO (Front Panel Audio Header)

The front panel audio header supports High Definition audio (HD). You may connect your chassis front panel audio module to this header. Make sure the wire assignments of the module connector match the pin assignments of the motherboard header. Incorrect connection between the module connector and the motherboard header will make the device unable to work or even damage it.

Suggested F_AUDIO header routing:

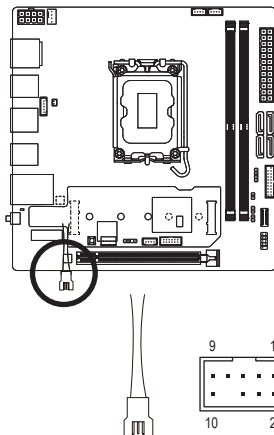
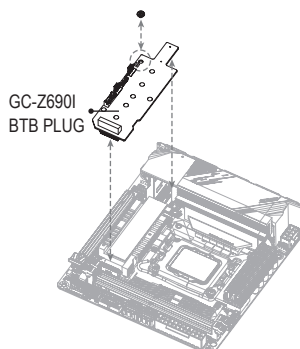
Step 1:

Use a screwdriver to unfasten the screw on the heatsink and then remove the heatsink.



Step 2:

Use a screwdriver to remove the screw from GC-Z690I BTB PLUG. Lift the GC-Z690I BTB PLUG upwards and remove it.



Step 3:

Move the F_AUDIO header out of its default location and route it via the BTB connector to the bottom edge of the motherboard as shown on the left.

Step 4:

Insert GC-Z690I BTB PLUG vertically into the BTB connectors and secure it with the screw. Then screw the heatsink back on.

Pin No.	Definition	Pin No.	Definition
1	MIC L	6	MIC Detection
2	GND	7	SENSE_SEND
3	MIC R	8	No Pin
4	NC	9	Head Phone L
5	Head Phone R	10	Head Phone Detection



Please visit GIGABYTE's website for details on using the front panel audio header.



Some chassis provide a front panel audio module that has separated connectors on each wire instead of a single plug. For information about connecting the front panel audio module that has different wire assignments, please contact the chassis manufacturer.

Chapter 3 BIOS Setup

BIOS (Basic Input and Output System) records hardware parameters of the system in the CMOS on the motherboard. Its major functions include conducting the Power-On Self-Test (POST) during system startup, saving system parameters and loading operating system, etc. BIOS includes a BIOS Setup program that allows the user to modify basic system configuration settings or to activate certain system features.

When the power is turned off, the battery on the motherboard supplies the necessary power to the CMOS to keep the configuration values in the CMOS.

To access the BIOS Setup program, press the <Delete> key during the POST when the power is turned on.

To upgrade the BIOS, use either the GIGABYTE Q-Flash or @BIOS utility.

- Q-Flash allows the user to quickly and easily upgrade or back up BIOS without entering the operating system.
- @BIOS is a Windows-based utility that searches and downloads the latest version of BIOS from the Internet and updates the BIOS.

For instructions on using the Q-Flash and @BIOS utilities, please navigate to the "Unique Features" page of GIGABYTE's website and search for "BIOS Update Utilities."



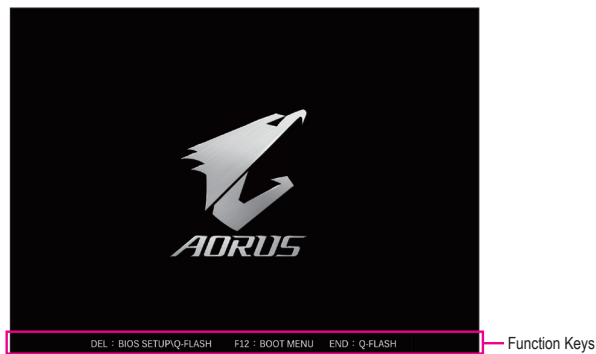
- Because BIOS flashing is potentially risky, if you do not encounter problems using the current version of BIOS, it is recommended that you not flash the BIOS. To flash the BIOS, do it with caution. Inadequate BIOS flashing may result in system malfunction.
- It is recommended that you not alter the default settings (unless you need to) to prevent system instability or other unexpected results. Inadequately altering the settings may result in system's failure to boot. If this occurs, try to clear the CMOS values and reset the board to default values.
- Refer to the introductions of the battery/clear CMOS jumper in Chapter 2 or navigate to the "BIOS Setup" page of GIGABYTE's website and search for "Load Optimized Defaults" for how to clear the CMOS values.



Please visit GIGABYTE's website for details on configuring BIOS Setup.

Startup Screen:

The following startup Logo screen will appear when the computer boots.



Function Keys:

: BIOS SETUP/Q-FLASH

Press the <Delete> key to enter BIOS Setup or to access the Q-Flash utility in BIOS Setup.

<F12>: BOOT MENU

Boot Menu allows you to set the first boot device without entering BIOS Setup. In Boot Menu, use the up arrow key <↑> or the down arrow key <↓> to select the first boot device, then press <Enter> to accept. The system will boot from the device immediately.

Note: The setting in Boot Menu is effective for one time only. After system restart, the device boot order will still be based on BIOS Setup settings.

<END>: Q-FLASH

Press the <End> key to access the Q-Flash utility directly without having to enter BIOS Setup first.

Chapter 4 Installing the Operating System and Drivers

4-1 Operating System Installation

With the correct BIOS settings, you are ready to install the operating system.

If you want to install an operating system on a RAID volume, you need to install the Intel® RST VMD Controller driver first during the OS installation process. Refer to the steps below:

Step 1:

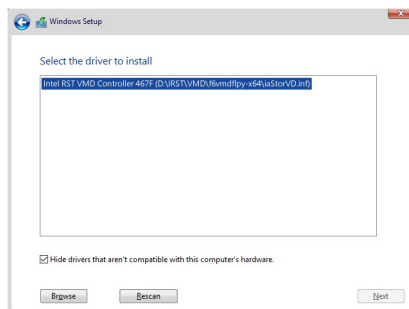
Go to GIGABYTE's website, browse to the motherboard model's web page, download the **Intel SATA Preinstall driver** file on the **Support\Download\SATA RAID/AHCI** page, unzip the file and copy the files to your USB thumb drive.

Step 2:

Boot from the Windows setup disc and perform standard OS installation steps. When the screen requesting you to load the driver appears, select **Browse**.

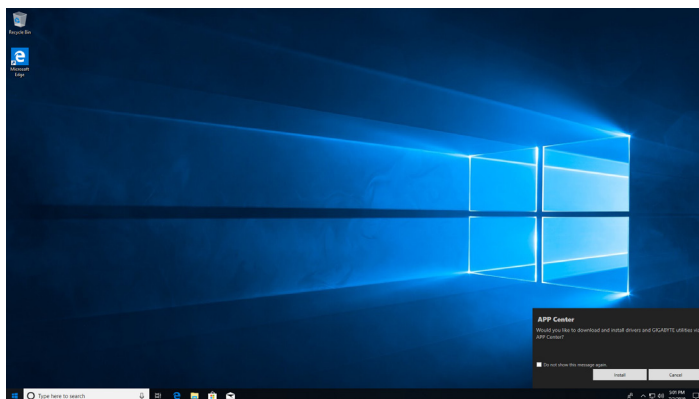
Step 3:

Insert the USB thumb drive and then browse to the location of the driver. When a screen as shown below appears, select **Intel RST VMD Controller 467F** and click **Next** to load the driver and continue the OS installation.

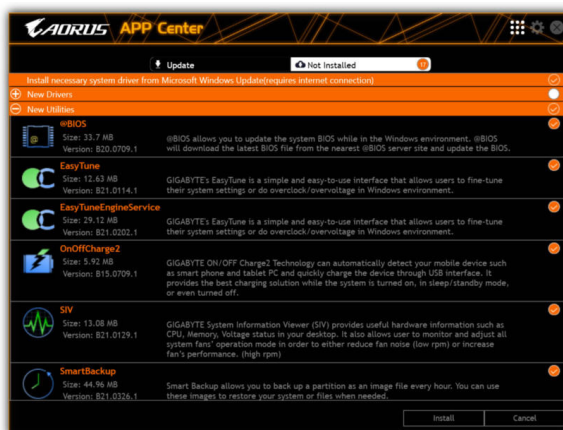


4-2 Drivers Installation

After you install the operating system, a dialog box will appear on the bottom-right corner of the desktop asking if you want to download and install the drivers and GIGABYTE applications via APP Center. Click **Install** to proceed with the installation. (In BIOS Setup, make sure **Settings\IO Ports\APP Center Download & Install Configuration\APP Center Download & Install** is set to **Enabled**.)



When the End User License Agreement dialog box appears, press <Accept> to install APP Center. On the APP Center screen, select the drivers and applications you want to install and click **Install**.



Before the installation, make sure the system is connected to the Internet.



Please visit GIGABYTE's website for more software information.



Please visit GIGABYTE's website for more troubleshooting information.

Chapter 5 Appendix

5-1 Configuring a RAID Set

RAID Levels

	RAID 0	RAID 1	RAID 5②	RAID 10②
Minimum Number of Hard Drives	≥2	2	≥3	4
Array Capacity	Number of hard drives * Size of the smallest drive	Size of the smallest drive	(Number of hard drives - 1) * Size of the smallest drive	(Number of hard drives/2) * Size of the smallest drive
Fault Tolerance	No	Yes	Yes	Yes

Before you begin, please prepare the following items:

This motherboard supports RAID 0, RAID 1, RAID 5, and RAID 10. Prepare the correct number of hard drives as indicated in the table above before configuring a RAID array.

- SATA hard drives or SSDs. To ensure optimal performance, it is recommended that you use two hard drives with identical model and capacity.
- Windows setup disc.
- An Internet connected computer.
- A USB thumb drive.



- An M.2 PCIe SSD cannot be used to set up a RAID set either with an M.2 SATA SSD or a SATA hard drive.
- Refer to "Internal Connectors," for the installation notices for the M.2 and SATA connectors.

② Only for Z690I AORUS ULTRA PLUS DDR4.



Please visit GIGABYTE's website for details on configuring a RAID array.

Regulatory Notices

United States of America, Federal Communications Commission Statement

Supplier's Declaration of Conformity 47 CFR § 2.1077 Compliance Information

Product Name: **Motherboard**
Trade Name: **GIGABYTE**
Model Number: **Z690I A ULTRA PLUS / Z690I A ULTRA PLUS D4**

Responsible Party – U.S. Contact Information: **G.B.T. Inc.**
Address: 17358 Railroad street, City Of Industry, CA91748
Tel.: 1-626-854-9338
Internet contact information: <https://www.gigabyte.com>

FCC Compliance Statement:

This device complies with Part 15 of the FCC Rules, Subpart B, Unintentional Radiators.

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.

The FCC with its action in ET Docket 96-8 has adopted a safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC certified equipment. The Intel PRO/Wireless 5000 LAN products meet the Human Exposure limits found in OET Bulletin 65, 2001, and ANSI/IEEE C95.1, 1992. Proper operation of this radio according to the instructions found in this manual will result in exposure substantially below the FCC's recommended limits.

The following safety precautions should be observed:

- Do not touch or move antenna while the unit is transmitting or receiving.
- Do not hold any component containing the radio such that the antenna is very close or touching any exposed parts of the body, especially the face or eyes, while transmitting.
- Do not operate the radio or attempt to transmit data unless the antenna is connected; if not, the radio may be damaged.
- Use in specific environments:
 - The use of wireless devices in hazardous locations is limited by the constraints posed by the safety directors of such environments.
 - The use of wireless devices on airplanes is governed by the Federal Aviation Administration (FAA).
 - The use of wireless devices in hospitals is restricted to the limits set forth by each hospital.

Antenna use:

In order to comply with FCC RF exposure limits, low gain integrated antennas should be located at a minimum distance of 7.9 inches (20 cm) or more from the body of all persons.

Explosive Device Proximity Warning

Warning: Do not operate a portable transmitter (such as a wireless network device) near unshielded blasting caps or in an explosive environment unless the device has been modified to be qualified for such use.

Antenna Warning

The wireless adapter is not designed for use with high-gain antennas.

Use On Aircraft Caution

Caution: Regulations of the FCC and FAA prohibit airborne operation of radio-frequency wireless devices because their signals could interfere with critical aircraft instruments.

Other Wireless Devices

Safety Notices for Other Devices in the Wireless Network: Refer to the documentation supplied with wireless Ethernet adapters or other devices in the wireless network.

Canada, Canada-Industry Notice:

This device complies with Industry Canada license-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.

Cet appareil est conforme aux normes Canada d'Industrie des Ressources. L'utilisation est assujettie aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Caution: When using IEEE 802.11a wireless LAN, this product is restricted to indoor use due to its operation in the 5.15-to 5.25-GHz frequency range. Industry Canada requires this product to be used indoors for the frequency range of 5.15 GHz to 5.25 GHz to reduce the potential for harmful interference to co-channel mobile satellite systems. High power radar is allocated as the primary user of the 5.25-to 5.35-GHz and 5.65 to 5.85-GHz bands. These radar stations can cause interference with and/or

damage to this device. The maximum allowed antenna gain for use with this device is 6dBi in order to comply with the E.I.R.P limit for the 5.25-to 5.35 and 5.725 to 5.85 GHz frequency range in point-to-point operation. To comply with RF exposure requirements all antennas should be located at a minimum distance of 20cm, or the minimum separation distance allowed by the module approval, from the body of all persons.

Attention: l'utilisation d'un réseau sans fil IEEE802.11a est restreinte à une utilisation en intérieur à cause du fonctionnement dans la bande de fréquence 5.15-5.25 GHz. Industry Canada requiert que ce produit soit utilisé à l'intérieur des bâtiments pour la bande de fréquence 5.15-5.25 GHz afin de réduire les possibilités d'interférences nuisibles aux canaux co-existants des systèmes de transmission satellites. Les radars de puissances ont fait l'objet d'une allocation primaire de fréquences dans les bandes 5.25-5.35 GHz et 5.65-5.85 GHz. Ces stations radar peuvent créer des interférences avec ce produit et/ou lui être nuisible. Le gain d'antenne maximum permise pour une utilisation avec ce produit est de 6 dBi afin d'être conforme aux limites de puissance isotropique rayonnée équivalente (P.I.R.E.) applicable.

dans les bandes 5.25-5.35 GHz et 5.725-5.85 GHz en fonctionnement point-à-point. Pour se conformer aux conditions d'exposition de RF toutes les antennes devraient être localisées à une distance minimum de 20 cm, ou la distance de séparation minimum permise par l'approbation du module, du corps de toutes les personnes.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be chosen so that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radio électrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

European Union (EU) CE Declaration of Conformity

This device complies with the following directives: Electromagnetic Compatibility Directive 2014/30/EU, Low-voltage Directive 2014/35/EU, Radio Equipment Directive 2014/53/EU, ErP Directive 2009/125/EC, RoHS directive (recast) 2011/65/EU & the 2015/863 Statement. This product has been tested and found to comply with all essential requirements of the Directives.

European Union (EU) RoHS (recast) Directive 2011/65/EU & the European Commission Delegated Directive (EU) 2015/863 Statement
GIGABYTE products have not intended to add and safe from hazardous substances (Cd, Pb, Hg, Cr+6, PBDE, PBB, DEHP, BBP, DBP and DIBP). The parts and components have been carefully selected to meet RoHS requirement. Moreover, we at GIGABYTE are continuing our efforts to develop products that do not use internationally banned toxic chemicals.

European Union (EU) Community Waste Electrical & Electronic Equipment (WEEE) Directive Statement

GIGABYTE will fulfill the national laws as interpreted from the 2012/19/EU WEEE (Waste Electrical and Electronic Equipment) (recast) directive. The WEEE Directive specifies the treatment, collection, recycling and disposal of electric and electronic devices and their components. Under the Directive, used equipment must be marked, collected separately, and disposed of properly.

WEEE Symbol Statement



The symbol shown below is on the product or on its packaging, which indicates that this product must not be disposed of with other waste. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure.

For more information about where you can drop off your waste equipment for recycling, please contact your local government office, your household waste disposal service or where you purchased the product for details of environmentally safe recycling.

Battery Information

European Union—Disposal and recycling information
GIGABYTE Recycling Program (available in some regions)



This symbol indicates that this product and/or battery should not be disposed of with household waste. You must use the public collection system to return, recycle, or treat them in compliance with the local regulations.

End of Life Directives-Recycling



The symbol shown below is on the product or on its packaging, which indicates that this product must not be disposed of with other waste. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure.

Déclaration de Conformité aux Directives de l'Union européenne (UE)

Cet appareil portant la marque CE est conforme aux directives de l'UE suivantes: directive Compatibilité Electromagnétique 2014/30/UE, directive Basse Tension 2014/35/UE, directive équipements radioélectriques 2014/53/UE, la directive RoHS II 2011/65/UE & la déclaration 2015/863. La conformité à ces directives est évaluée sur la base des normes européennes harmonisées applicables.

European Union (EU) CE-Konformitätserklärung

Dieses Produkte mit CE-Kennzeichnung erfüllen folgenden EU-Richtlinien: EMV-Richtlinie 2014/30/EU, Niederspannungsrichtlinie 2014/35/EU, Funkanlagen Richtlinie 2014/53/EU, RoHS-Richtlinie 2011/65/EU erfüllt und die 2015/863 Erklärung.

Die Konformität mit diesen Richtlinien wird unter Verwendung der entsprechenden Standards zur Europäischen Normierung beurteilt.

CE declaração de conformidade

Este produto com a marcação CE está em conformidade com das seguintes Diretivas UE: Diretiva Baixa Tensão 2014/35/EU; Diretiva CEM 2014/30/EU; Diretiva RSP 2011/65/UE e a declaração 2015/863. A conformidade com estas diretivas é verificada utilizando as normas europeias harmonizadas.

CE Declaración de conformidad

Este producto que llevan la marca CE cumplen con las siguientes Directivas de la Unión Europea: Directiva EMC 2014/30/EU, Directiva de bajo voltaje 2014/35/EU, Directiva de equipamientos de radio 2014/53/EU, Directiva RoHS 2011/65/EU y la Declaración 2015/863. El cumplimiento de estas directivas se evalúa mediante las normas europeas armonizadas.

CE Dichiarazione di conformità

I prodotti con il marchio CE sono conformi con una o più delle seguenti Direttive UE, come applicabile: Direttiva EMC 2014/30/UE, Direttiva sulla bassa tensione 2014/35/UE, Direttiva di apparecchiature radio 2014/53/UE, Direttiva RoHS 2011/65/UE e Dichiarazione 2015/863. La conformità con tali direttive viene valutata utilizzando gli Standard europei armonizzati applicabili.

Deklaracja zgodności UE Unii Europejskiej

Urządzenie jest zgodne z następującymi dyrektywami: Dyrektywa kompatybilności elektromagnetycznej 2014/30/UE, Dyrektywa niskonapięciowej 2014/35/UE, Dyrektywa urządzeń radiowych 2014/53/UE, Dyrektywa RoHS 2011/65/UE i dyrektywa 2015/863.

Niniejsze urządzenie zostało poddane testom i stwierdzono jego zgodność z wymaganiami dyrektywy.

ES Prohlášení o shodě

Toto zařízení splňuje požadavky Směrnice o Elektromagnetické kompatibilitě 2014/30/EU, Směrnice o Nízkém napětí 2014/35/EU, Směrnice o rádiových zařízeních 2014/53/EU, Směrnice RoHS 2011/65/EU a 2015/863.

Tento produkt byl testován a bylo shledáno, že splňuje všechny základní požadavky směrnice.

EK megfelelési nyilatkozata

A termék megfelelnek az alábbi irányelvek és szabványok követelményeinek, azok a kiállításidőpontjában érvényes, aktuális változatában: EMC irányelv 2014/30/EU, Kisfeszültségű villamos berendezésekre vonatkozó irányelv 2014/35/EU, rádióberendezések irányelv 2014/53/EU, RoHS irányelv 2011/65/EU és 2015/863.

Δήλωση συμμόρφωσης ΕΕ

Είναι σε συμμόρφωση με τις διατάξεις των παρακάτω Οδηγιών της Ευρωπαϊκής Κοινότητας: Οδηγία 2014/30/ΕΕ σχετικά με την ηλεκτρομαγνητική συμβατότητα, Οδηγία χαμηλή τάση 2014/35/ΕΕ, Οδηγία 2014/53/ΕΕ σε ραδιοεξοπλισμό, Οδηγία RoHS 2011/65/ΕΕ και 2015/863.

Η συμμόρφωση με αυτές τις οδηγίες αξιολογήεται χρησιμοποιώντας τα ισχύοντα εναρμονισμένα ευρωπαϊκά πρότυπα.



D33006 RoHS

European Community Radio Equipment Directive Compliance Statement:

This equipment complies with all the requirements and other relevant provisions of Radio Equipment Directive 2014/53/EU. This equipment is suitable for home and office use in all the European Community Member States and EFTA Member States. The low band 5.15 -5.35 GHz is for indoor use only.

	AT	BE	BG	CH	CY	CZ	DE
	DK	EE	EL	ES	FI	FR	HR
	HU	IE	IS	IT	LI	LT	LU
	LV	MT	NL	PL	PT	RO	SE
	SI	SK	TR	UK			

Taiwan NCC Wireless Statements / 無線設備警告聲明：

低功率電波輻射性電機管理辦法

- 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。

Korea KCC NCC Wireless Statement:

5.25GHz - 5.35 GHz 대역을 사용하는 무선 장치는 실내에서만 사용하도록 제한됩니다 .

Japan Wireless Statement:

5.15 GHz 帯 ~ 5.35 GHz 帯：屋内のみの使用。

Wireless module country approvals:

Wireless module manufacturer: Intel® Corporation

Wireless module model name: AX411NGW

Country approvals for wireless module AX411NGW:

United States: FCC ID: PD9AX411NG	India: ETA-SD-20210806393	Serbia: 	Taiwan: 
Canada: IC: 1000M-AX411NG	Japan:  003-210221 D210157003	Singapore: 	Ukraine: 
Australia: 	5.15~5.35GHz 屋内限定 5.15~5.35GHz indoor use only (except communicate to high power radio)	South Korea:  KCC-B0404011NGW	United Kingdom: 
Belarus: 	Applicant number: D080001	1.발호명: INTEL CORPORATION 2.기자번호: 명칭 (국명): 독립소송의무(산하기) (발호명)을 포함한 무선주파수(주파수) 무선기기 (K025-7125M003) / AX411NGW 3.제조사(제조): Intel Corporation / China, Taiwan 4.제조사(제조): Intel Corporation / China, Taiwan	
China: CMIIT ID: 2022AJ1573 (M)	Approval number: TRA/TA-R/12399/21		
Europe: 	Pakistan: Approved by PTA TAC no.: 9.1077/2021		

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Contact Us

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Tech. and Non-Tech. Support (Sales/Marketing) : <https://esupport.gigabyte.com>

WEB address (English): <https://www.gigabyte.com>

WEB address (Chinese): <https://www.gigabyte.com/tw>

- **GIGABYTE eSupport**

To submit a technical or non-technical (Sales/Marketing) question, please link to:
<https://esupport.gigabyte.com>

The screenshot shows the GIGABYTE eSupport landing page. At the top left is the GIGABYTE logo. The main heading is "Welcome to eSupport" in blue. Below it is a subtext: "Submit your product/sponsorship/marketing questions or inquiries, and our representative will respond in a timely fashion." The page is divided into three main sections: "NEWS", "SIGN IN", and "QUICK LINK". The "NEWS" section has a placeholder for submissions. The "SIGN IN" section includes fields for "Account" and "Password", a "sign in with" button with social media icons (Facebook, Google, Twitter, Microsoft), and links for "Register", "Forgot Password", and "Sign Up". The "QUICK LINK" section has buttons for "Downloads", "FAQ", and "Warranty".