

# B650M K

## User's Manual

Rev. 1001



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

<https://www.gigabyte.com/Motherboard/B650M-K-rev-10?m=ma#kf>

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- For detailed product information, carefully read the User's Manual.
- For quick set-up of the product, refer to the Quick Installation Guide on GIGABYTE's website.

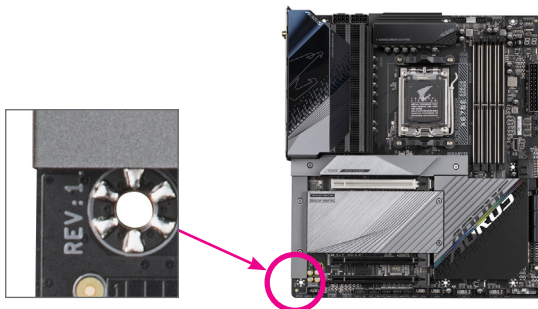
[https://download.gigabyte.com/FileList/Manual/mb\\_manual\\_quick-guide\\_am5.pdf?m=sw](https://download.gigabyte.com/FileList/Manual/mb_manual_quick-guide_am5.pdf?m=sw)

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:

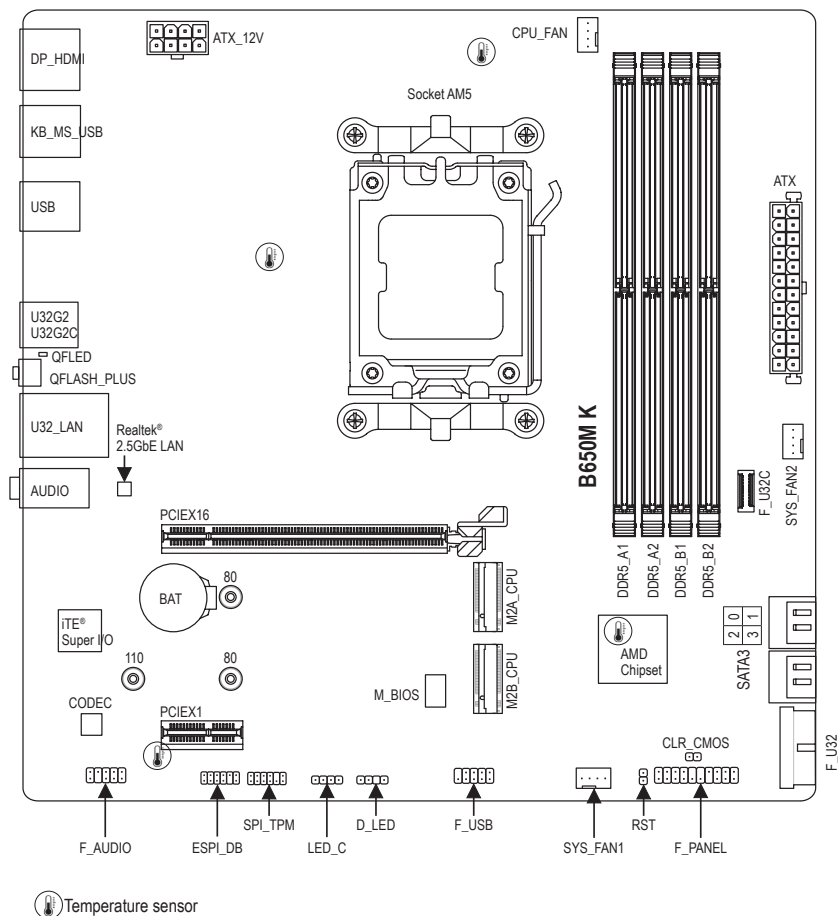


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# Chapter 1 Product Introduction

## 1-1 Motherboard Layout





## 1-2 Box Contents

- ☒ B650M K motherboard
- ☒ User's Manual
- ☒ I/O Shield
- ☒ One SATA cable

\* 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                 | <ul style="list-style-type: none"> <li>AMD Socket AM5, support for:<br/>AMD Ryzen™ 7000 Series Processors<br/>(Go to GIGABYTE's website for the latest CPU support list.)</li> </ul>   |
|  Chipset             | <ul style="list-style-type: none"> <li>AMD B650</li> </ul>   |
|  Memory              | <ul style="list-style-type: none"> <li>Support for DDR5 5200/4800/4400 MT/s memory modules</li> <li>4 x DDR5 DIMM sockets supporting up to 128 GB (32 GB single DIMM capacity) of system memory</li> <li>Dual channel memory architecture</li> <li>Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules</li> <li>Support for AMD Extended Profiles for Overclocking (AMD EXPO™) and Extreme Memory Profile (XMP) memory modules<br/>(Go to GIGABYTE's website for the latest supported memory speeds and memory modules.)</li> </ul>  |
|  Onboard Graphics    | <ul style="list-style-type: none"> <li>Integrated Graphics Processor: <ul style="list-style-type: none"> <li>1 x DisplayPort, supporting a maximum resolution of 3840x2160@144 Hz <ul style="list-style-type: none"> <li>* Support for DisplayPort 1.4 version.</li> </ul> </li> <li>1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz <ul style="list-style-type: none"> <li>* Support for HDMI 2.1 version and HDCP 2.3.</li> <li>** Support native HDMI 2.1 TMDS compatible ports.</li> </ul> </li> </ul> </li> <li>(Graphics specifications may vary depending on CPU support.)</li> </ul> |
|  Audio               | <ul style="list-style-type: none"> <li>Realtek® Audio CODEC</li> <li>High Definition Audio</li> <li>2/4/5.1/7.1-channel <ul style="list-style-type: none"> <li>* You can change the functionality of an audio jack using the audio software. To configure 7.1-channel audio, access the audio software for audio settings.</li> </ul> </li> </ul>  |
|  LAN                 | <ul style="list-style-type: none"> <li>Realtek® 2.5GbE LAN chip (2.5 Gbps/1 Gbps/100 Mbps)</li> </ul>  |
|  Expansion Slots     | <ul style="list-style-type: none"> <li>CPU: <ul style="list-style-type: none"> <li>1 x PCI Express x16 slot, supporting PCIe 4.0 and running at x16</li> </ul> </li> <li>Chipset: <ul style="list-style-type: none"> <li>1 x PCI Express x1 slot, supporting PCIe 3.0 and running at x1</li> </ul> </li> </ul>   |
|  Storage Interface | <ul style="list-style-type: none"> <li>CPU: <ul style="list-style-type: none"> <li>1 x M.2 connector (Socket 3, M key, type 2580 PCIe 4.0 x4/x2 SSD support)</li> <li>1 x M.2 connector (Socket 3, M key, type 25110/2280 PCIe 4.0 x4/x2 SSD support)</li> </ul> </li> <li>Chipset: <ul style="list-style-type: none"> <li>4 x SATA 6Gb/s connectors</li> </ul> </li> <li>RAID 0, RAID 1, and RAID 10 support for NVMe SSD storage devices</li> <li>RAID 0, RAID 1, and RAID 10 support for SATA storage devices</li> </ul>  |
|  USB               | <ul style="list-style-type: none"> <li>CPU: <ul style="list-style-type: none"> <li>1 x USB Type-C® port on the back panel, with USB 3.2 Gen 2 support</li> <li>1 x USB 3.2 Gen 2 Type-A port (red) on the back panel</li> <li>2 x USB 2.0/1.1 ports on the back panel</li> </ul> </li> </ul>   |

|   |                       |   |
|---|-----------------------|---|
|    | USB                   | <ul style="list-style-type: none"> <li>♦ Chipset: <ul style="list-style-type: none"> <li>- 1 x USB Type-C® port with USB 3.2 Gen 1 support, available through the internal USB header</li> <li>- 4 x USB 3.2 Gen 1 ports (2 ports on the back panel, 2 ports available through the internal USB header)</li> <li>- 4 x USB 2.0/1.1 ports (2 ports on the back panel, 2 ports available through the internal USB header)</li> </ul> </li> </ul>  |
|    | Internal Connectors   | <ul style="list-style-type: none"> <li>♦ 1 x 24-pin ATX main power connector</li> <li>♦ 1 x 8-pin ATX 12V power connector</li> <li>♦ 1 x CPU fan header</li> <li>♦ 2 x system fan headers</li> <li>♦ 1 x addressable LED strip header</li> <li>♦ 1 x RGB LED strip header</li> <li>♦ 2 x M.2 Socket 3 connectors</li> <li>♦ 4 x SATA 6Gb/s connectors</li> <li>♦ 1 x front panel header</li> <li>♦ 1 x front panel audio header</li> <li>♦ 1 x USB Type-C® header, with USB 3.2 Gen 1 support</li> <li>♦ 1 x USB 3.2 Gen 1 header</li> <li>♦ 1 x USB 2.0/1.1 header</li> <li>♦ 1 x Trusted Platform Module header (For the GC-TPM2.0 SPI/GC-TPM2.0 SPI 2.0 module only)</li> <li>♦ 1 x reset jumper</li> <li>♦ 1 x Clear CMOS jumper</li> </ul> |
|    | Back Panel Connectors | <ul style="list-style-type: none"> <li>♦ 1 x DisplayPort</li> <li>♦ 1 x HDMI port</li> <li>♦ 4 x USB 2.0/1.1 ports</li> <li>♦ 1 x PS/2 keyboard/mouse port</li> <li>♦ 1 x USB 3.2 Gen 2 Type-A port (red)</li> <li>♦ 1 x USB Type-C® port, with USB 3.2 Gen 2 support</li> <li>♦ 1 x Q-Flash Plus button</li> <li>♦ 1 x RJ-45 port</li> <li>♦ 2 x USB 3.2 Gen 1 ports</li> <li>♦ 3 x audio jacks</li> </ul>   |
|  | I/O Controller        | <ul style="list-style-type: none"> <li>♦ iTE® I/O Controller Chip</li> </ul>  |
|  | Hardware Monitor      | <ul style="list-style-type: none"> <li>♦ Voltage detection</li> <li>♦ Temperature detection</li> <li>♦ Fan speed detection</li> <li>♦ Water cooling flow rate detection</li> <li>♦ Fan fail warning</li> <li>♦ Fan speed control</li> </ul> <p>* Whether the fan speed control function is supported will depend on the cooler you install.</p>   |

|  |   |
|--|---|
|  BIOS             | <ul style="list-style-type: none"> <li>♦ 1 x 256 Mbit flash</li> <li>♦ Use of licensed AMI UEFI BIOS</li> <li>♦ PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0</li> </ul>  |
|  Unique Features  | <ul style="list-style-type: none"> <li>♦ Support for GIGABYTE Control Center (GCC) <ul style="list-style-type: none"> <li>* Available applications in GCC may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications.</li> </ul> </li> <li>♦ Support for Q-Flash</li> <li>♦ Support for Q-Flash Plus</li> </ul> |
|  Bundled Software | <ul style="list-style-type: none"> <li>♦ Norton® Internet Security (OEM version)</li> <li>♦ LAN bandwidth management software</li> </ul>  |
|  Operating System | <ul style="list-style-type: none"> <li>♦ Support for Windows 11 64-bit</li> <li>♦ Support for Windows 10 64-bit</li> </ul>  |
|  Form Factor      | <ul style="list-style-type: none"> <li>♦ Micro ATX Form Factor; 24.4cm x 24.4cm</li> </ul>  |

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

☞ Please visit GIGABYTE's website for support lists of CPU, memory modules, SSDs, and M.2 devices.  
<https://www.gigabyte.com/Motherboard/B650M-K-rev-10?m=dl#support-dl>

☞ Please visit the **SERVICE/SUPPORT Utility** page on GIGABYTE's website to download the latest version of apps.  
<https://www.gigabyte.com/Support/Utility/Motherboard?m=ut>

## 2-3 Installing the CPU and CPU Cooler

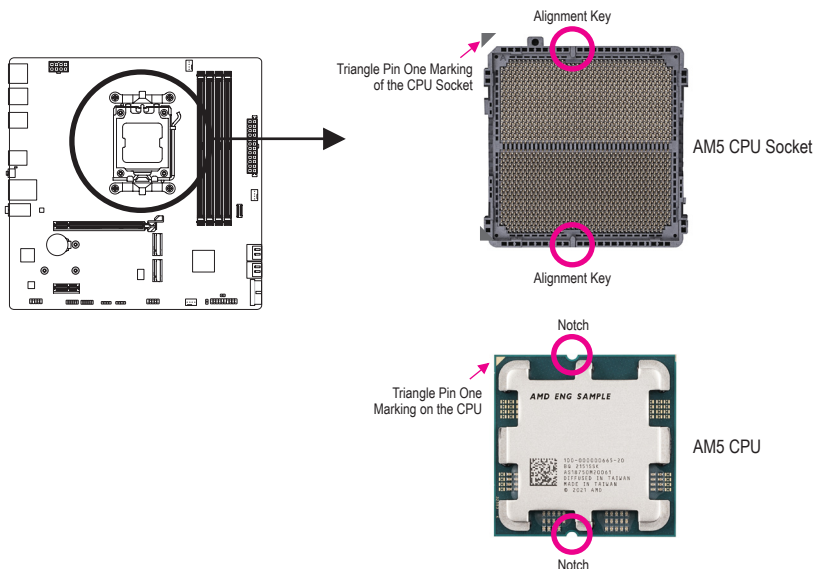


Read the following guidelines before you begin to install the CPU:

- 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.

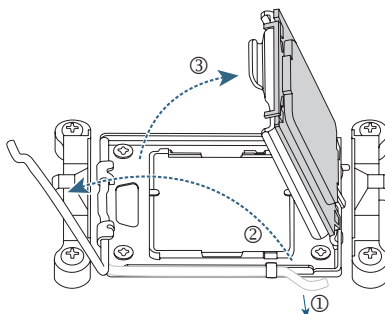
<http://www.gigabyte.com/WebPage/210/quick-guide.html?m=sw>

## B. Installing the CPU

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

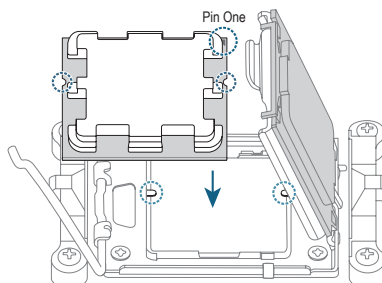
**1**

- ① Gently press the CPU socket lever handle down and away from the socket.
- ② Completely lift up the CPU socket locking lever.
- ③ With your fingers, hold the plastic protective cover attached to the metal load plate to lift open the metal load plate.



**2**

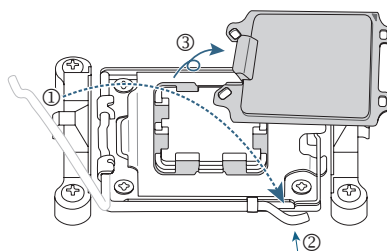
Hold the CPU with your fingers by the edges. Align the CPU pin one marking (triangle) with the pin one corner of the CPU socket (or you may align the CPU notches with the socket alignment keys) and gently insert the CPU into position.



**3**

Make sure the CPU is properly installed and then close the load plate. Secure the socket lever under its retention tab. The plastic protective cover will pop off by itself and can be removed.

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



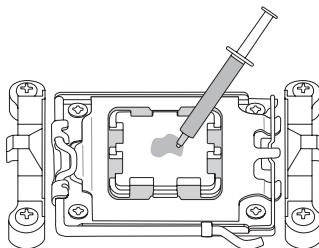
**Do not force to engage the CPU socket locking lever when the CPU is not installed correctly as this would damage the CPU and CPU socket.**

## 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.

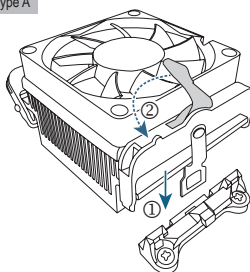


2

Type A:

Hook the CPU cooler clip to the mounting lug on one side of the retention frame. On the other side, push straight down on the CPU cooler clip to hook it to the mounting lug on the retention frame. Turn the cam handle from the left side to the right side to lock into place.

Type A



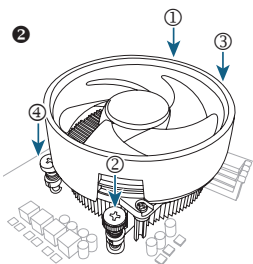
Type B:

First remove the four screws from the CPU retention frame and remove the CPU retention frame. Then align the four shoulder screws on the CPU cooler with the standoffs from the back plate. Fasten each shoulder screw in a 1-2-3-4 (x) pattern as shown on the right.

Type B

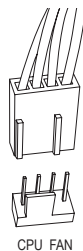


\* When using a Type B CPU cooler, it is not recommended to fasten each screw down all the way in one step. Follow order 1-2-3-4, fasten screw clockwise 1 rotation per step. Repeat steps 1-2-3-4 till all screws are fastened.



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 four 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 four memory sockets are divided into two channels and each channel has two memory sockets as following:

▶▶ Channel A: DDR5\_A1, DDR5\_A2

▶▶ Channel B: DDR5\_B1, DDR5\_B2

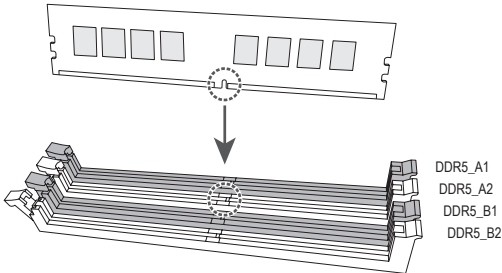
\* Recommended Dual Channel Memory Configuration:

|           | DDR5_A1 | DDR5_A2 | DDR5_B1 | DDR5_B2 |
|-----------|---------|---------|---------|---------|
| 2 Modules | --      | DS/SS   | --      | DS/SS   |
| 4 Modules | DS/SS   | DS/SS   | DS/SS   | DS/SS   |

(SS=Single-Sided, DS=Double-Sided, "--"=No Memory)

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 or four memory modules, it is recommended that memory of the same capacity, brand, speed, and chips be used.



When installing a single memory module, we recommend that you install it in the DDR5\_A2 or DDR5\_B2 socket.

## 2-5 Installing an Expansion Card

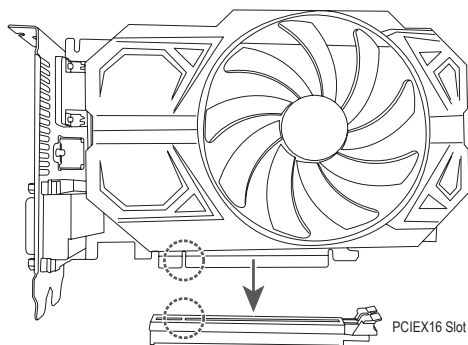


Read the following guidelines before you begin to install an expansion card:

- 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 that the expansion card is fully seated in its 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



### **d DisplayPort**

DisplayPort delivers high quality digital imaging and audio, supporting bi-directional audio transmission. You can use this port to connect your DisplayPort-supported monitor. Note: The DisplayPort Technology can support a maximum resolution of 3840x2160@144 Hz but the actual resolutions supported depend on the monitor being used.

### **i HDMI Port**

**HDMI**™ The HDMI port is HDCP 2.3 compliant and supports 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 2.0/1.1 Port**

The USB port supports the USB 2.0/1.1 specification. Use this port for USB devices.

### **i PS/2 Keyboard/Mouse Port**

Use this port to connect a PS/2 mouse or keyboard.

### **c USB 3.2 Gen 2 Type-A Port (Red) (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 <sup>(Note)</sup>, make sure to insert the USB flash drive into this port first.

### **i USB Type-C® Port (with USB 3.2 Gen 2 Support)**

The reversible USB 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.

### **S Q-Flash Plus Button <sup>(Note)</sup>**

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 Q-Flash Plus 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.

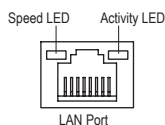
(Note) To enable the Q-Flash Plus function, please navigate to the "Unique Features" page of GIGABYTE's website for more information.



- 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 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        |
|--------|--------------------|
| Orange | 2.5 Gbps data rate |
| Green  | 1 Gbps data rate   |
| Off    | 100 Mbps data rate |

Activity LED:

| State    | Description                                    |
|----------|--|
| Blinking | Data transmission or receiving is occurring    |
| Off      | No data transmission or receiving is occurring |

## ❷ 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.

## ❸ Line In/Rear Speaker Out (Blue)

The line in jack. Use this audio jack for line in devices such as an optical drive, walkman, etc.

## ❹ Line Out/Front Speaker Out (Green)

The line out jack.

## ❺ Mic In/Center/Subwoofer Speaker Out (Pink)

The Mic in jack.

Audio Jack Configurations:

| Jack                                  | Headphone/<br>2-channel | 4-channel | 5.1-channel | 7.1-channel |
|---------------------------------------|-------------------------|-----------|-------------|-------------|
| ❶ Line In/Rear Speaker Out            |                         | ✓         | ✓           | ✓           |
| ❷ Line Out/Front Speaker Out          | ✓                       | ✓         | ✓           | ✓           |
| ❸ Mic In/Center/Subwoofer Speaker Out |                         |           | ✓           | ✓           |
| Front Panel Line Out/Side Speaker Out |                         |           |             | ✓           |

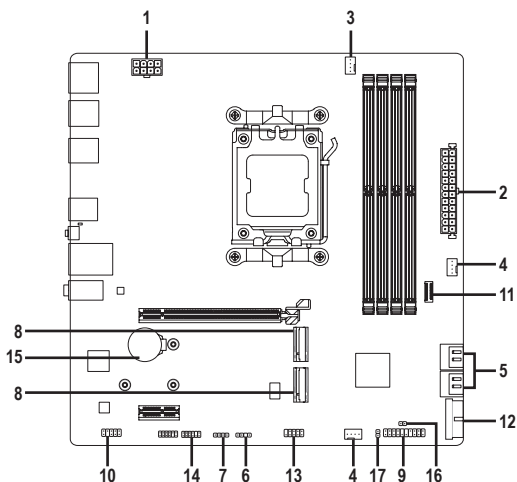


You can change the functionality of an audio jack using the audio software. To configure 7.1-channel audio, access the audio software for audio settings.

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

<https://www.gigabyte.com/WebPage/697/realtek897-audio.html>

## 2-7 Internal Connectors



|                    |              |
|--------------------|--------------|
| 1) ATX_12V         | 10) F_AUDIO  |
| 2) ATX             | 11) F_U32C   |
| 3) CPU_FAN         | 12) F_U32    |
| 4) SYS_FAN1/2      | 13) F_USB    |
| 5) SATA3 0/1/2/3   | 14) SPI_TPM  |
| 6) D_LED           | 15) BAT      |
| 7) LED_C           | 16) CLR_CMOS |
| 8) M2A_CPU/M2B_CPU | 17) RST      |
| 9) F_PANEL         |              |



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.

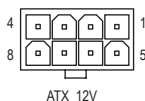
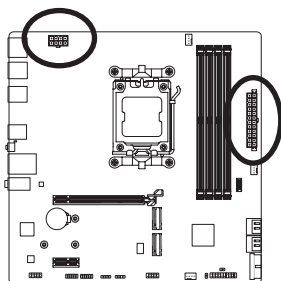
## 1/2) ATX\_12V/ATX (2x4 12V Power Connector and 2x12 Main Power Connector)

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.

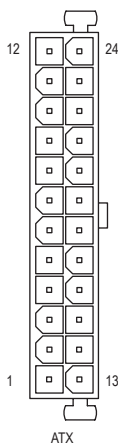


To meet expansion requirements, it is recommended that a power supply that can withstand high power consumption be used (500W or greater). If a power supply is used that does not provide the required power, the result can lead to an unstable or unbootable system.



ATX\_12V:

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

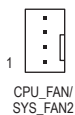
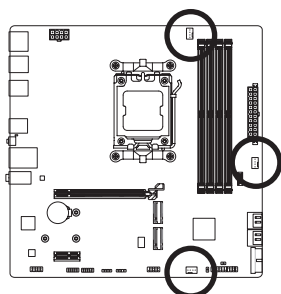


ATX:

| 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) |

### 3/4) CPU\_FAN/SYS\_FAN1/2 (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     |

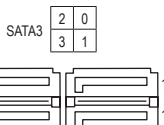
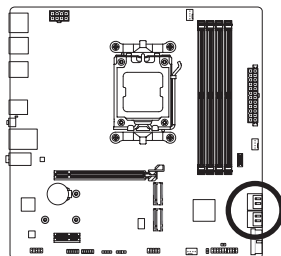
| Connector       | CPU_FAN | SYS_FAN1~2 |
|-----------------|---------|------------|
| Maximum Current | 2A      | 2A         |
| Maximum Power   | 24W     | 24W        |



- 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.

### 5) SATA3 0/1/2/3 (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 SATA connectors support RAID 0, RAID 1, and RAID 10. Please navigate to the "Configuring a RAID Set" page of GIGABYTE's website for instructions on configuring a RAID array.



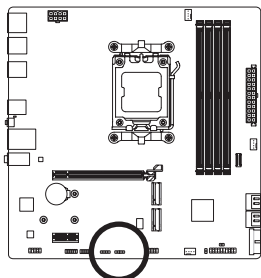
| Pin No. | Definition |
|---------|------------|
| 1       | GND        |
| 2       | TXP        |
| 3       | TXN        |
| 4       | GND        |
| 5       | RXN        |
| 6       | RXP        |
| 7       | GND        |



To enable hot-plugging for the SATA ports, please navigate to the "BIOS Setup" page of GIGABYTE's website and search for "SATA Configuration" for more information.

## 6) D\_LED (Addressable LED Strip Header)

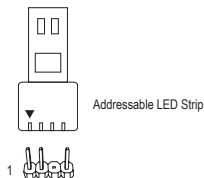
The header can be used to connect a standard 5050 addressable LED strip, with maximum power rating of 5A (5V) and maximum number of 1000 LEDs.



1 ■ ■ ■

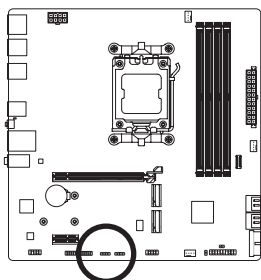
| Pin No. | Definition |
|---------|------------|
| 1       | V (5V)     |
| 2       | Data       |
| 3       | No Pin     |
| 4       | GND        |

Connect your addressable LED strip to the header. The power pin (marked with a triangle on the plug) of the LED strip must be connected to Pin 1 of the addressable LED strip header. Incorrect connection may lead to the damage of the LED strip.



## 7) LED\_C (RGB LED Strip Header)

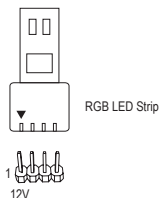
The header can be used to connect a standard 5050 RGB LED strip (12V/G/R/B), with maximum power rating of 2A (12V) and maximum length of 2m.



1 ■ ■ ■

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

Connect your RGB LED strip to the header. The power pin (marked with a triangle on the plug) of the LED strip must be connected to Pin 1 (12V) of this header. 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.

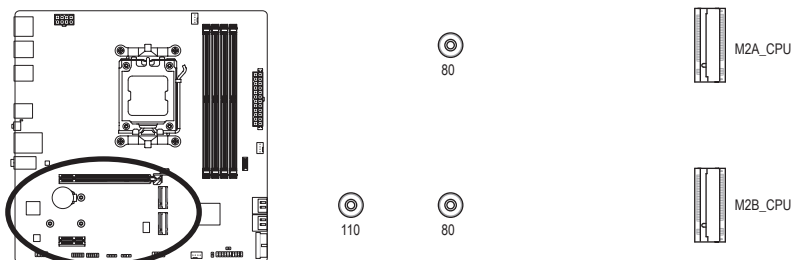


Before installing the devices, be sure to turn off the devices and your computer. Unplug the power cord from the power outlet to prevent damage to the devices.



## 8) M2A\_CPU/M2B\_CPU (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. 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 connector:

Follow the steps below to correctly install an M.2 SSD in the M.2 connector.

#### Step 1:

Use a screwdriver to unfasten the screw on the heatsink and then remove the heatsink. Insert the M.2 SSD into the M.2 connector at an angle.

#### Step 2:

Remove the protective film from the thermal pad at bottom of the heatsink. Then replace the heatsink and secure it and the M.2 SSD to the original hole with the screw.

### M2B\_CPU connector:

#### Step 1:

Locate the proper mounting hole for the M.2 SSD to be installed and then install the mounting clip first.

#### Step 2:

Pull the clip's tab up and out of the mounting hole. Slide the M.2 SSD into the connector at an angle.

#### Step 3:

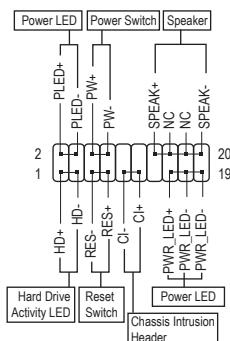
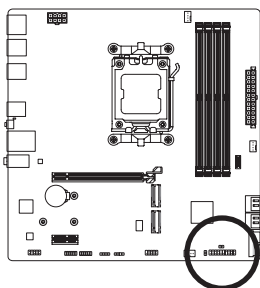
Press the M.2 SSD down and then secure it by pressing the clip's tab into the mounting hole.

\* 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 | ✓               | ✓               | ✗            |
| M2B_CPU | ✓               | ✓               | ✗            |

## 9) F\_PANEL (Front Panel Header)

Connect the power switch, reset switch, speaker, chassis intrusion switch/sensor 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/PWR\_LED (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 navigate to the "BIOS Setup" page of GIGABYTE's website and search for "Soft-Off by PWR-BTTN" for more information).

- **SPEAK (Speaker):**

Connects to the speaker on the chassis front panel. 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.

- **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.

- **CI (Chassis Intrusion Header):**

Connects to the chassis intrusion switch/sensor on the chassis that can detect if the chassis cover has been removed. This function requires a chassis with a chassis intrusion switch/sensor.

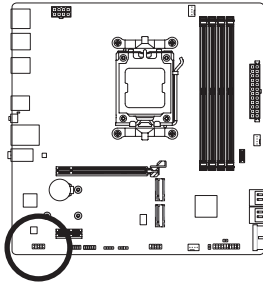
- **NC: No connection.**



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, speaker and etc. When connecting your chassis front panel module to this header, make sure the wire assignments and the pin assignments are matched correctly.

## 10) 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.



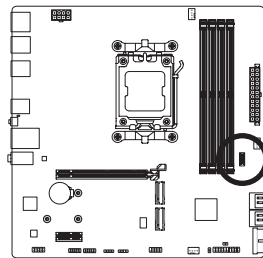
| Pin No. | Definition           |
|---------|----------------------|
| 1       | MIC L                |
| 2       | GND                  |
| 3       | MIC R                |
| 4       | NC                   |
| 5       | Head Phone R         |
| 6       | MIC Detection        |
| 7       | SENSE_SEND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



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.

## 11) F\_U32C (USB Type-C® Header, with USB 3.2 Gen 1 Support)

The header conforms to USB 3.2 Gen 1 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        |

12) F\_U32 (USB 3.2 Gen 1 Header)

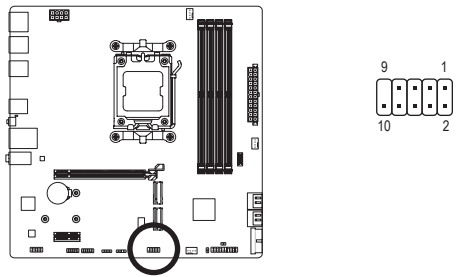
The header conforms to USB 3.2 Gen 1 and USB 2.0 specification and can provide two USB ports. For purchasing the optional 3.5" front panel that provides two USB 3.2 Gen 1 ports, please contact the local dealer.




| 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     |

13) F\_USB (USB 2.0/1.1 Header)

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.

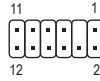
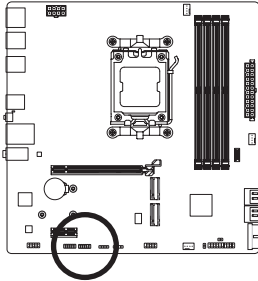


| Pin No. | Definition |
|---------|------------|
| 1       | Power (5V) |
| 2       | Power (5V) |
| 3       | USB DX-    |
| 4       | USB DY-    |
| 5       | USB DX+    |
| 6       | USB DY+    |
| 7       | GND        |
| 8       | GND        |
| 9       | No Pin     |
| 10      | NC         |

 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.

#### 14) SPI\_TPM (Trusted Platform Module Header)

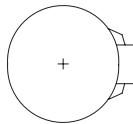
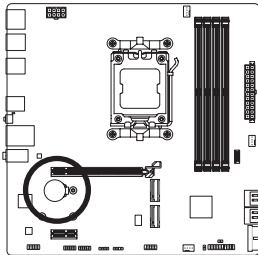
You may connect an SPI TPM (Trusted Platform Module) to this header.



| Pin No. | Definition   |
|---------|--------------|
| 1       | Data Output  |
| 2       | Power (3.3V) |
| 3       | No Pin       |
| 4       | NC           |
| 5       | Data Input   |
| 6       | CLK          |
| 7       | Chip Select  |
| 8       | GND          |
| 9       | IRQ          |
| 10      | NC           |
| 11      | NC           |
| 12      | RST          |

#### 15) 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.



You may clear the CMOS values by removing the battery:

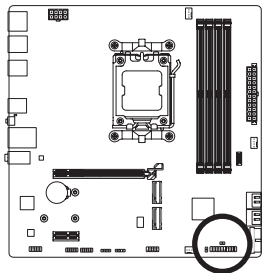
1. Turn off your computer and unplug the power cord.
2. Gently remove the battery from the battery holder and wait for one minute. (Or use a metal object like a screwdriver to touch the positive and negative terminals of the battery holder, making them short for 5 seconds.)
3. Replace the battery.
4. Plug in the power cord and restart your computer.



- 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.
- When installing the battery, note the orientation of the positive side (+) and the negative side (-) of the battery (the positive side should face up).
- Used batteries must be handled in accordance with local environmental regulations.

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.



Open: Normal



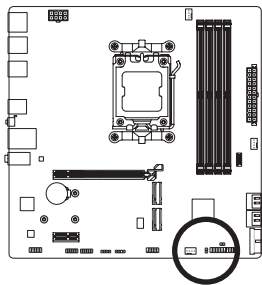
Short: Clear CMOS Values



- 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).

17) RST (Reset Jumper)

The reset jumper 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.



| Pin No. | Definition |
|---------|------------|
| 1       | Reset      |
| 2       | GND        |



The reset jumper 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.

## 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 Q-Flash Plus utility.

- Q-Flash allows the user to quickly and easily upgrade or back up BIOS without entering the operating system.
- 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.

For instructions on using the Q-Flash and Q-Flash Plus 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.

<https://www.gigabyte.com/WebPage/917/amd600-bios.html>

## Startup Screen:

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



## Function Keys:

### <DEL>: 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.

As some operating systems already include RAID driver, you do not need to install separate RAID driver during the Windows installation process. After the operating system is installed, we recommend that you install all required drivers from the GIGABYTE Control Center to ensure system performance and compatibility. If the operating system to be installed requires that you provide additional RAID driver during the OS installation process, please refer to the steps below:

#### Step 1:

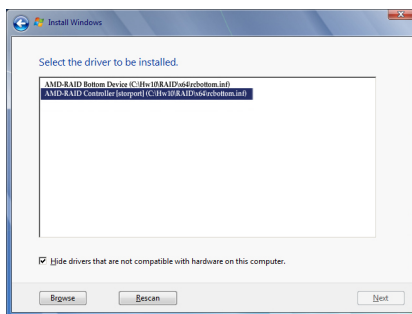
Go to GIGABYTE's website, browse to the motherboard model's web page, download the **AMD RAID Preinstall Driver** file on the **Support\Download\SATA RAID/AHCI** page, unzip the file and copy the files to your USB thumb drive.

#### 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**.

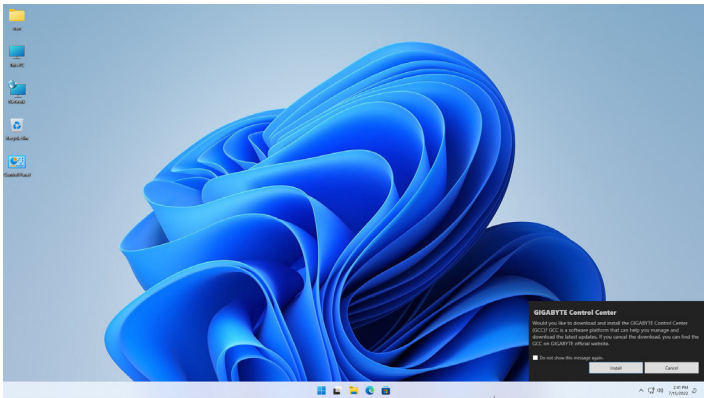
#### Step 3:

Insert the USB thumb drive and then browse to the location of the driver. Select **AMD-RAID Bottom Device** first and click Next to load the driver. Then select **AMD-RAID Controller** and click Next to load the driver. Finally, continue the OS installation.

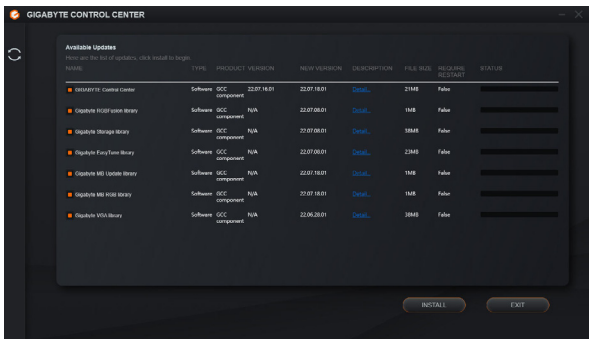


## 4-2 Drivers Installation

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 GIGABYTE Control Center (GCC). Click **Install** to proceed with the installation. (In BIOS Setup, make sure **Settings\Gigabyte Utilities Downloader Configuration\Gigabyte Utilities Downloader** is set to **Enabled**.)



When the End User License Agreement dialog box appears, press <Accept> to install GIGABYTE Control Center (GCC). On the GIGABYTE CONTROL 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.  
<https://www.gigabyte.com/WebPage/916/amd600-app.html>
- ⌵ Please visit GIGABYTE's website for more troubleshooting information.  
<https://www.gigabyte.com/WebPage/351/faq.html>

## Chapter 5 Appendix

### 5-1 Configuring a RAID Set

#### RAID Levels

|                               | RAID 0  | RAID 1                     | RAID 10   |
|-------------------------------|---|----------------------------|---|
| Minimum Number of Hard Drives | ≥2  | 2                          | 4   |
| Array Capacity                | Number of hard drives *<br>Size of the smallest drive | Size of the smallest drive | (Number of hard drives/2) *<br>Size of the smallest drive |
| Fault Tolerance               | No  | Yes                        | Yes   |

#### Before you begin, please prepare the following items:

This motherboard supports RAID 0, RAID 1, 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 with a SATA hard drive.

☞ Please visit GIGABYTE's website for details on configuring a RAID array.  
<https://www.gigabyte.com/WebPage/918/amd600-raid.html>

# 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: **B650M K**

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.

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 manufacturer's 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 to 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.

#### Canadian Department of Communications Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications. This class B digital apparatus complies with Canadian ICES-003.

#### Avís de conformitat a la reglamentació d'Indústria Canada

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

#### 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, 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 et directive RoHS II 2011/65/UE. 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 2014/30/EU und RoHS-Richtlinie 2011/65/EU erfüllt. 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 as seguintes Diretivas UE: Diretiva Baixa Tensão 2014/35/UE; Diretiva CEM 2014/30/UE; Diretiva RSP 2011/65/UE. 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/UE), Directiva de bajo voltaje (2014/35/UE), Directiva RoHS (recast) (2011/65/UE). El cumplimiento de estas directivas se evalúa mediante las normas europeas armonizadas.

#### Dichiarazione di conformità CE

Questo prodotto è conforme alle seguenti direttive: Direttiva sulla compatibilità elettromagnetica 2014/30/UE, Direttiva sulla bassa tensione 2014/35/UE, Direttiva RoHS (rifusione) 2011/65/UE. Questo prodotto è stato testato e trovato conforme a tutti i requisiti essenziali delle Direttive.



033006 RoHS



## 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 homepage. At the top left is the GIGABYTE logo. The main heading is "Welcome to eSupport" in blue. Below it, a message states: "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 contains a message about submission status. The "SIGN IN" section has fields for "Account" and "Password", a "sign in with" section with social media icons (Facebook, Google, Twitter, Microsoft), and a "SIGN IN" button. Below the sign-in fields are links for "Register" and "Forgot Password". The "QUICK LINK" section features icons for "Downloads", "FAQ", and "Warranty".