GIGABYTE B760M DS3H AX DDR4 Motherboard User Manual

B760M DS3H AX
B760M DS3H
B760M DS3H AX DDR4
B760M DS3H DDR4
User's Manual
Rev. 1301

Contents

B760M DS3H AX DDR4 Motherboard

GIGABYTE will reduce paper use in order to fulfill the responsibilities of a global citizen. Also, 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.

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

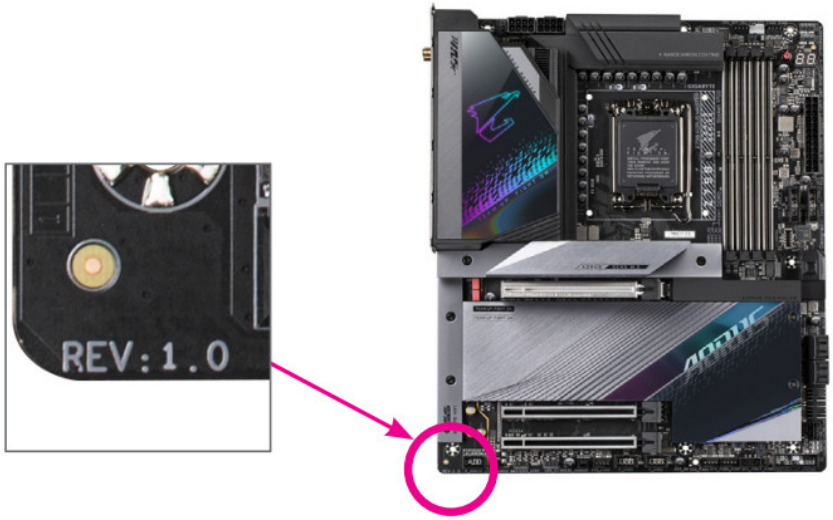
- For detailed product information, carefully read the User's Manual.
- For quick set-up of the product, refer to the Quick Installation Guide on GIGABYTE's website.

https://download.gigabyte.com/FileList/Manual/mb_manual_installation-guide_12QM-100xR.pd
For product-related information, check on our website at: https://www.gigabyte.com

Identifying Your Motherboard Revision

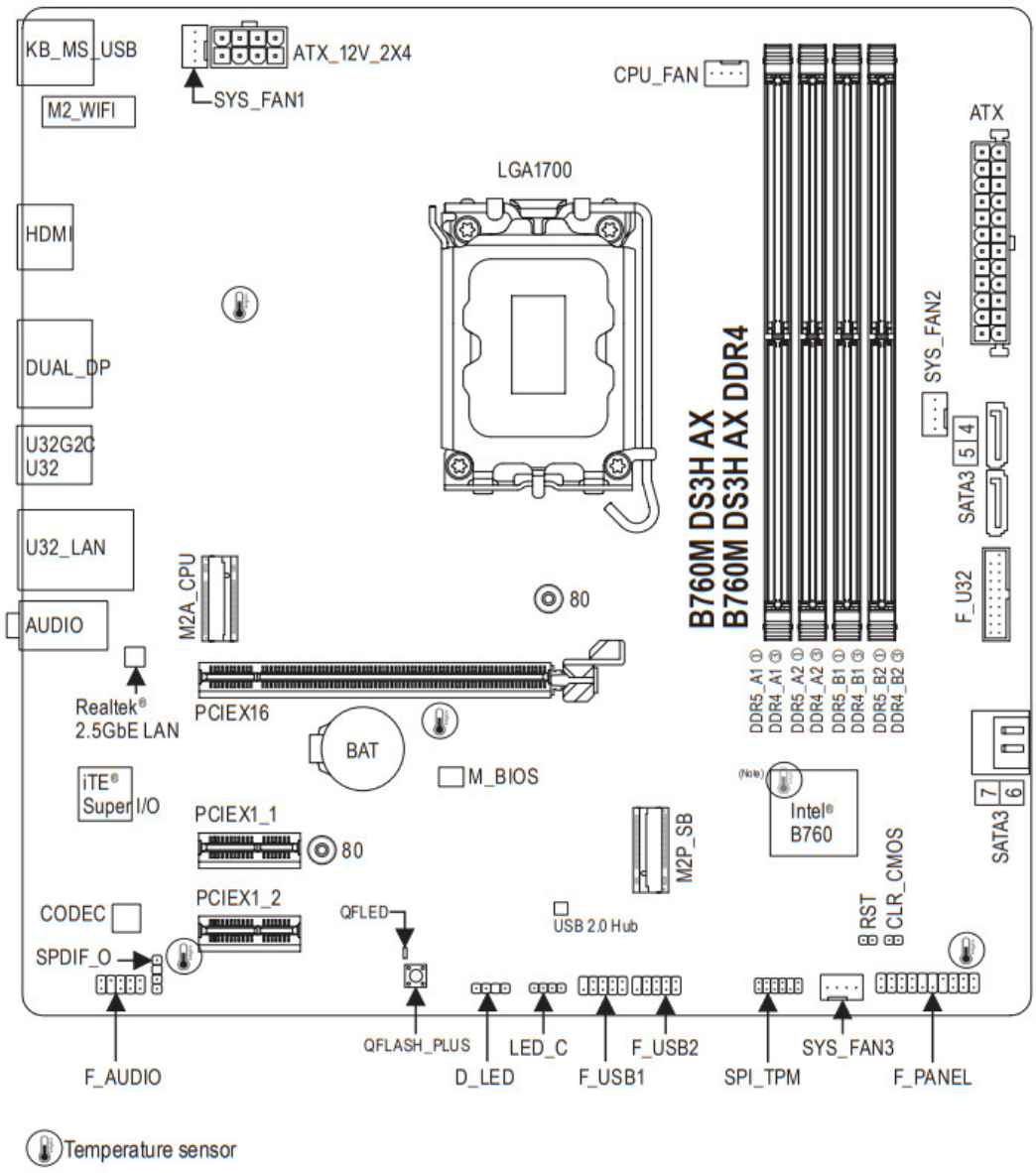
The revision number on your motherboard looks like this: "REV: X.X." For example, "REV: 1.0" means the revision of the motherboard is 1.0. Check your motherboard revision before updating motherboard BIOS, drivers, or when looking for technical information.

Example:



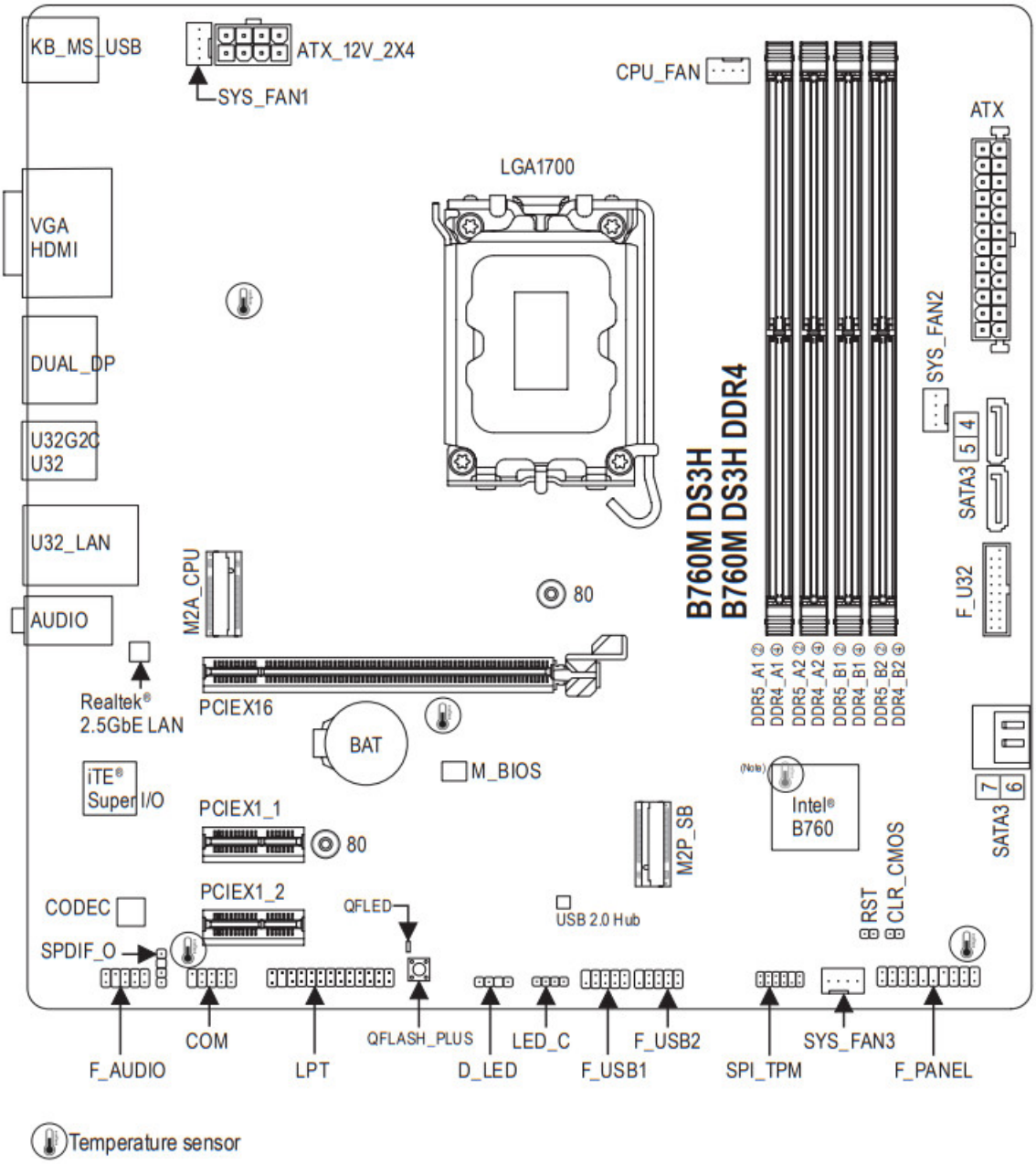
Chapter 1 Product Introduction

1-1 Motherboard Layout



(Note) The temperature sensor is on the back of the motherboard.

1. Only for B760M DS3H AX.
2. Only for B760M DS3H AX DDR4.



(Note) The temperature sensor is on the back of the motherboard.

1. Only for B760M DS3H.
2. Only for B760M DS3H DDR4.

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 the 14th, 13th, and 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® B760 Express Chipset

 Memory	◆ 14th and 13th Generation Inte® Core™ i9/i7 Processors: – Support for DDR5 5600/5200/4800/4400 MT/s memory modules 1,2 ◆ 13th Generation Intel® Core™ i5/i3 and 12th Generation Intel® Core™ , Pentium® Gold and Celeron® Processors: – Support for DDR5 4800/4400 MT/s memory modules 1,2 ◆ Support for DDR4 3200/3000/2933/2666/2400/2133 MT/s memory modules 3,4 ◆ 4 x DDR5 DIMM sockets supporting up to 192 GB (48 GB single DIMM capacity) of system memory 1,2 ◆ 4 x DDR4 DIMM sockets supporting up to 128 GB (32 GB single DIMM capacity) of system memory 3,4 ◆ 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 (The CPU and memory configuration may affect the supported memory types, data rate (speed), and number of DRAM modules, please refer to “Memory Support List” on GIGABYTE’s website for more information.)
 Onboard Graphics	◆ Integrated Graphics Processor-Intel® HD Graphics support: – 1 x D-Sub port, supporting a maximum resolution of 1920×1200@60 Hz 2,4 – 1 x HDMI port, supporting a maximum resolution of 4096×2160@60 Hz * Support for HDMI 2.0 version and HDCP 2.3. – 1 x DisplayPort, supporting a maximum resolution of 4096×2304@60 Hz * Support for DisplayPort 1.2 version and HDCP 2.3 – 1 x DisplayPort, supporting a maximum resolution of 4096×2304@60 Hz * Support for DisplayPort 1.2 version. (Graphics specifications may vary depending on CPU support.) ◆ Support for up to triple-display at the same time 1,3 ◆ Support for up to quad-display at the same time 2,4
 Audio	◆ Realtek® Audio CODEC ◆ High Definition Audio ◆ 2/4/5.1/7.1-channel * 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. ◆ Support for S/PDIF Out
 LAN	◆ Realtek® 2.5GbE LAN chip (2.5 Gbps/1 Gbps/100 Mbps)

 Wireless Communication Module 1,3	◆ AMD Wi-Fi 6E RZ608 (MT7921K) (For PCB rev. 1.0) – WIFI a, b, g, n, ac, ax, supporting 2.4/5/6 GHz carrier frequency bands – BLUETOOTH 5.2 – Support for 11ax 80MHz wireless standard and up to 1.2 Gbps data rate ◆ Intel® Wi-Fi 6E AX210 (For PCB rev. 1.1) – WIFI a, b, g, n, ac, ax, supporting 2.4/5/6 GHz carrier frequency bands – BLUETOOTH 5.3 – Support for 11ax 160MHz wireless standard and up to 2.4 Gbps data rate ◆ Intel® Wi-Fi 6E AX211 (For PCB rev. 1.2) – WIFI a, b, g, n, ac, ax, supporting 2.4/5/6 GHz carrier frequency bands – BLUETOOTH 5.3 – Support for 11ax 160MHz wireless standard and up to 2.4 Gbps data rate ◆ Realtek® Wi-Fi 6E RTL8852CE (For PCB rev. 1.3) – WIFI a, b, g, n, ac, ax, supporting 2.4/5/6 GHz carrier frequency bands – BLUETOOTH 5.3 – 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	◆ CPU: – 1 x PCI Express x16 slot, supporting PCIe 4.0 and running at x16 ◆ Chipset: – 2 x PCI Express x1 slots, supporting PCIe 3.0 and running at x1
 Storage Interface	◆ CPU: – 1 x M.2 connector (Socket 3, M key, type 2280 PCIe 4.0 x4/x2 SSD support) (M2A_CPU) ◆ Chipset: – 1 x M.2 connector (Socket 3, M key, type 2280 PCIe 4.0 x4/x2 SSD support) (M2P_SB) – 4 x SATA 6Gb/s connectors ◆ RAID 0, RAID 1, RAID 5, and RAID 10 support for SATA storage devices
 USB	◆ Chipset: – 1 x USB Type-C® port on the back panel, with USB 3.2 Gen 2 support – 5 x USB 3.2 Gen 1 ports (3 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 internal USB headers

 Internal Connectors	◆ 1 x 24-pin ATX main power connector ◆ 1 x 8-pin ATX 12V power connector ◆ 1 x CPU fan header ◆ 3 x system fan headers ◆ 1 x addressable LED strip header ◆ 1 x RGB LED strip header ◆ 2 x M.2 Socket 3 connectors ◆ 4 x SATA 6Gb/s connectors ◆ 1 x front panel header ◆ 1 x front panel audio header ◆ 1 x USB 3.2 Gen 1 header ◆ 2 x USB 2.0/1.1 headers ◆ 1 x Trusted Platform Module header (For the GC-TPM2.0 SPI/GC-TPM2.0 SPI 2.0/ GC-TPM2.0 SPI V2 module only) ◆ 1 x serial port header 2,4 ◆ 1 x parallel port header 2,4 ◆ 1 x S/PDIF Out header ◆ 1 x Q-Flash Plus button ◆ 1 x reset jumper ◆ 1 x Clear CMOS jumper
 Back Panel Connectors	◆ 2 x USB 2.0/1.1 ports ◆ 1 x PS/2 keyboard/mouse port ◆ 2 x SMA antenna connectors (2T2R) 1,3 ◆ 1 x D-Sub port 2,4 ◆ 1 x HDMI port ◆ 2 x DisplayPorts ◆ 3 x USB 3.2 Gen 1 ports ◆ 1 x USB Type-C® port, with USB 3.2 Gen 2 support ◆ 1 x RJ-45 port ◆ 3 x audio jacks
 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 fan you install.
 BIOS	◆ 1 x 128 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 GIGABYTE Control Center (GCC) * Available applications in GCC may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications. ◆ Support for Q-Flash ◆ Support for Q-Flash Plus

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	◆ Micro ATX Form Factor; 24.4cm x 24.4cm

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

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

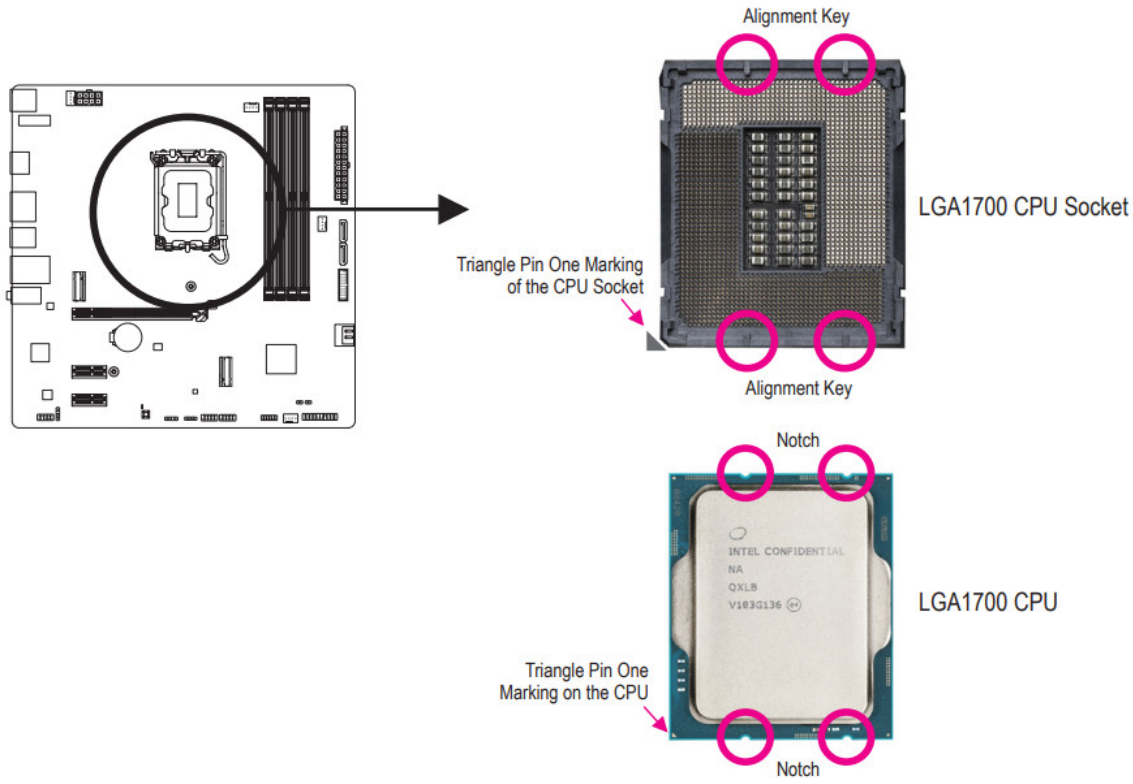
2-3 Installing the CPU and CPU Cooler

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.



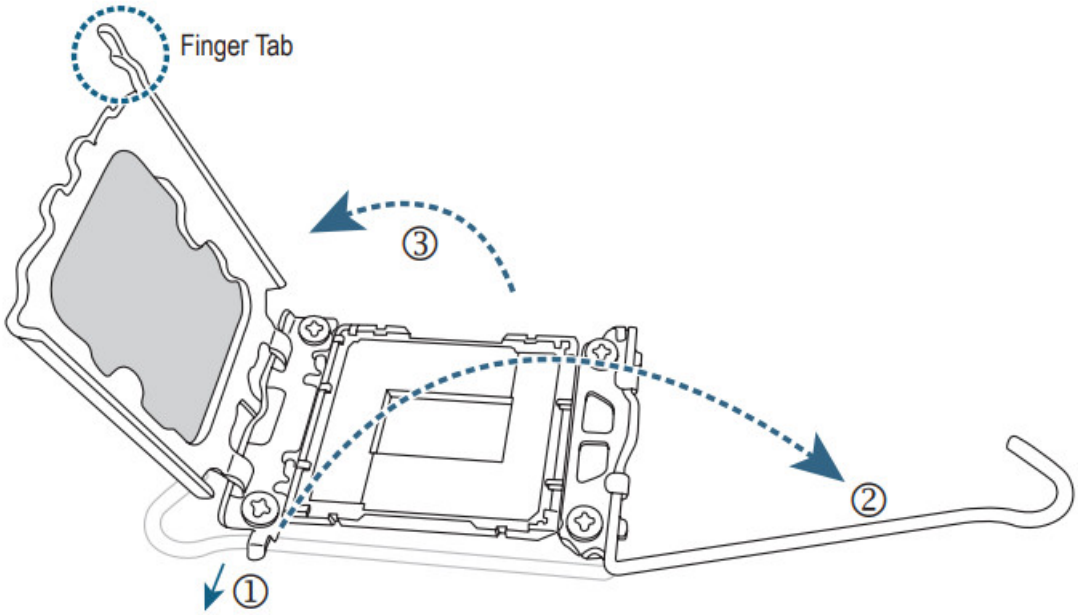
Do not remove the CPU socket cover before inserting the CPU. It may pop off from the load plate automatically after you insert the CPU and close the load plate.

Please visit GIGABYTE's website for details on hardware installation.
https://www.gigabyte.com/WebPage/210/quick-guide.html?m=sw

B. Installing the CPU

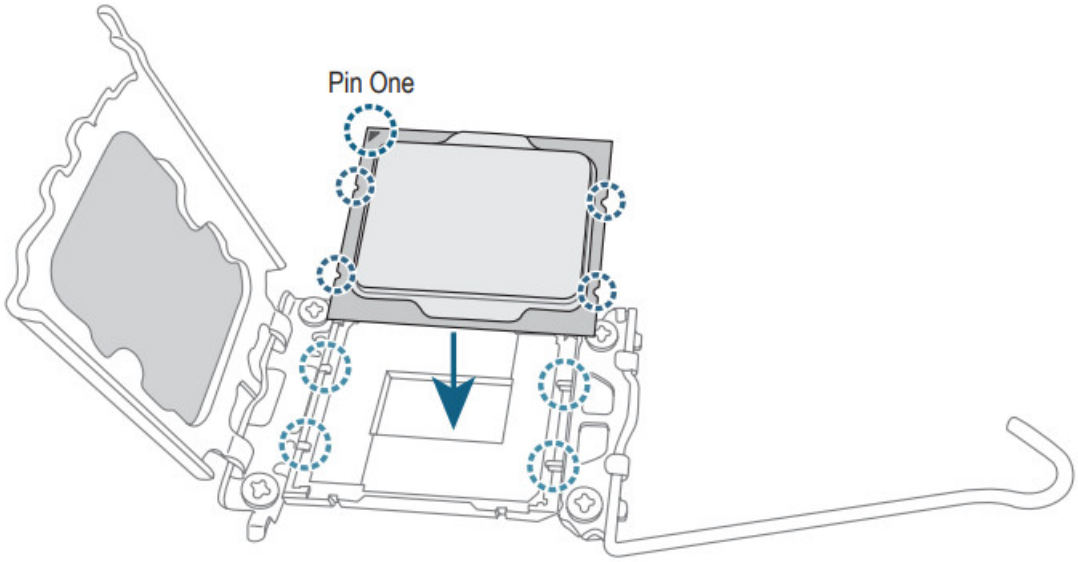
Follow the steps below to correctly install the CPU into the motherboard CPU socket.

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. Use the finger tab on the side of themetal load plate to lift open the metal load plate with the plastic protective cover attached to it.

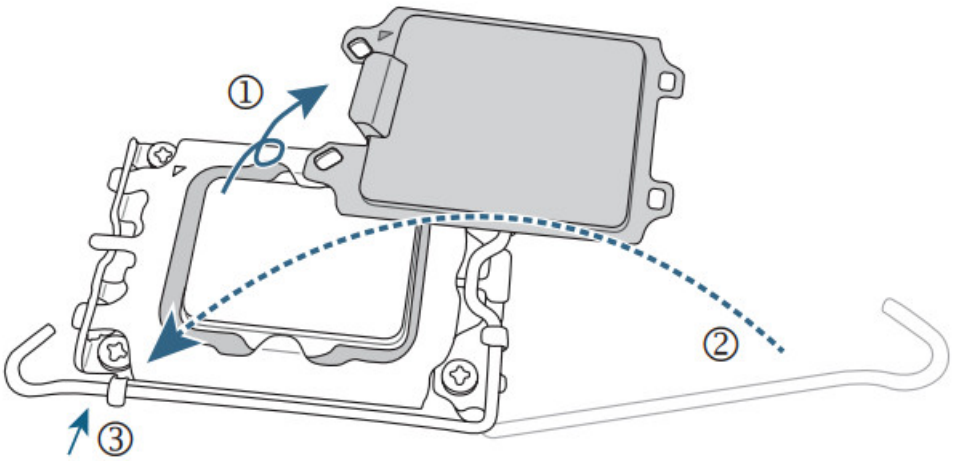


2. Hold the CPU with your fingers by the edges.
   Align the CPU pin one marking (triangle) with the pin one corner of the CPU socket (or you may align the CPU

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. 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.

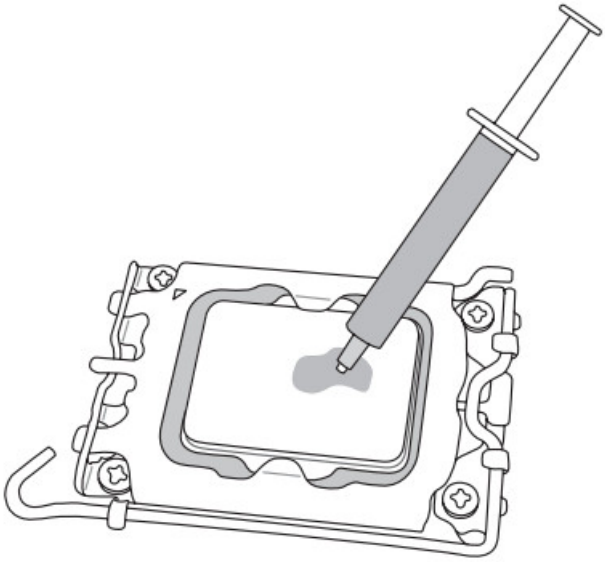


Do not force to engage the CPU socket locking lever when the CPU is not installed correctly as this would damage the CPU and CPU socket.

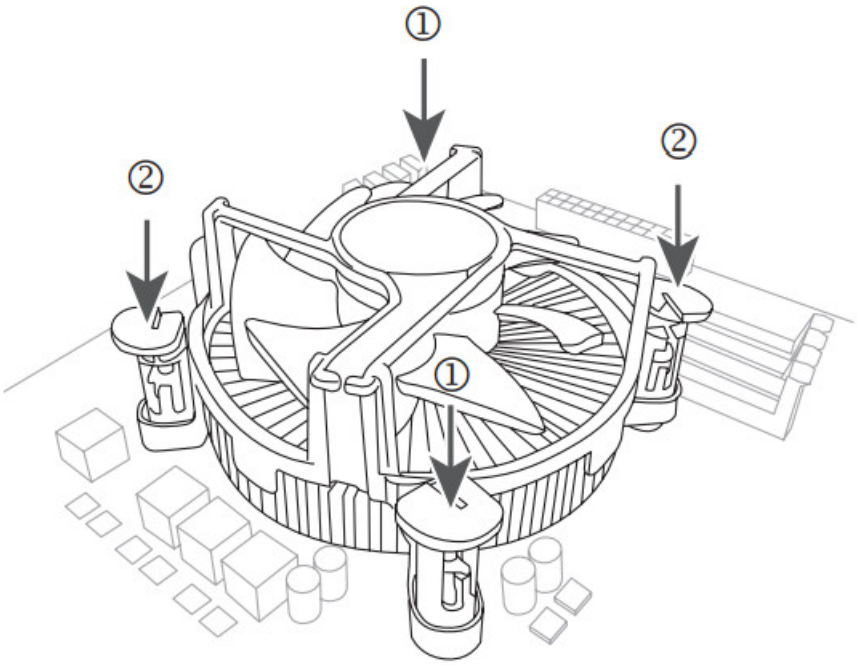
C. Installing the CPU Cooler

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.)

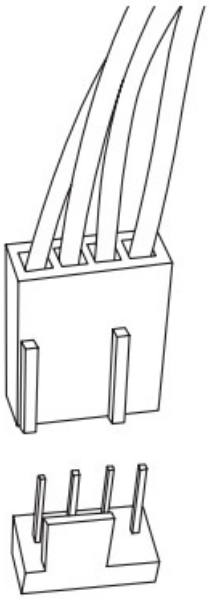
1. Apply an even and thin layer of thermal grease on the surface of the installed CPU.



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.



CPU_FAN

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.

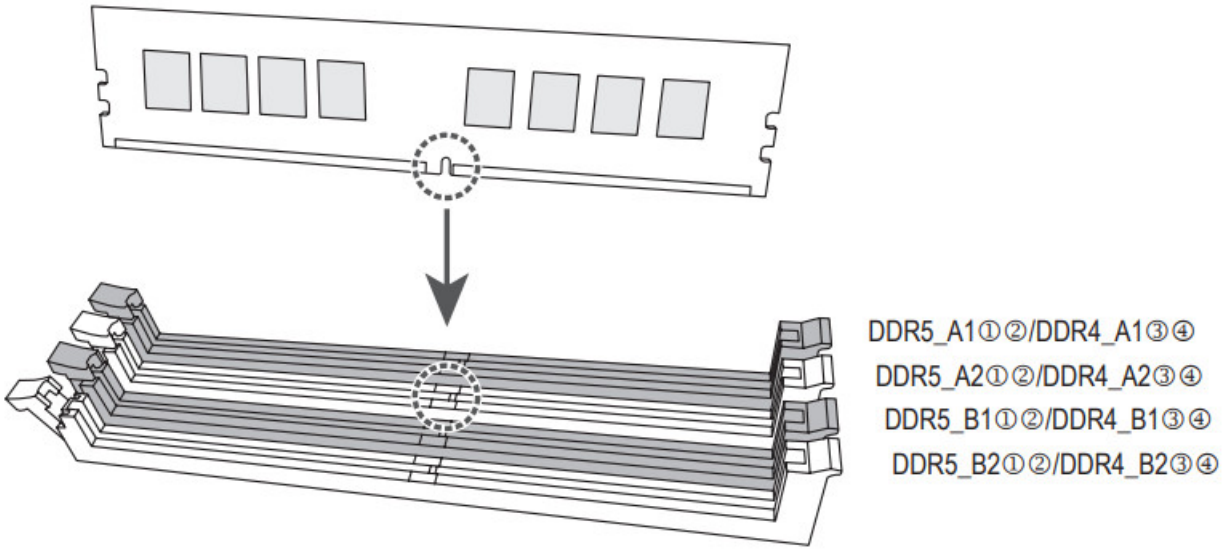
Dual Channel Memory Configuration
This motherboard provides four memory sockets and supports Dual Channel Technology. After the memory is installed, the BIOS will automatically detect the specifications and capacity of the memory. Enabling Dual Channel memory mode will double the original memory bandwidth.
The four memory sockets are divided into two channels and each channel has two memory sockets as following:

- Channel A: DDR5_A1 1,2/DDR4_A1 3,4, DDR5_A2 1,2/DDR4_A2 3,4
- Channel B: DDR5_B1 1,2/DDR4_B1 3,4, DDR5_B2 1,2/DDR4_B2 3,4

* Recommended Dual Channel Memory Configuration:

	DDR5 A11,2 DDR4 A1 3,4	DDR5 A2 1,2 DDR4 A2 3,4	DDR5 B1 1,2 DDR4 B1 3,4	DDR5 B2 1,2 DDR4 B2 3,4
2 Modules	– –	DS/SS	– –	DS/SS
4 Modules	DS/SS	DS/SS	DS/SS	DS/SS

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



When installing a single memory module, we recommend that you install it in the DDR5_A2 12/ DDR4_A2 34 or DDR5_B2 12/DDR4_B2 34 socket.

1. Only for B760M DS3H AX.
2. Only for B760M DS3H.
3. Only for B760M DS3H AX DDR4.
4. Only for B760M DS3H DDR4.

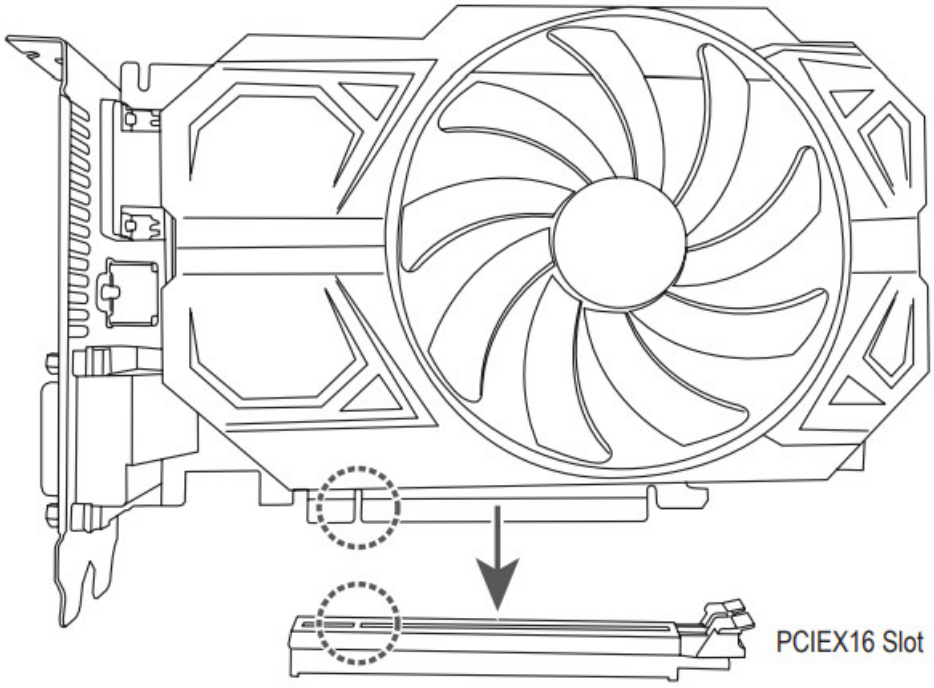
2-5 Installing an Expansion Card

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

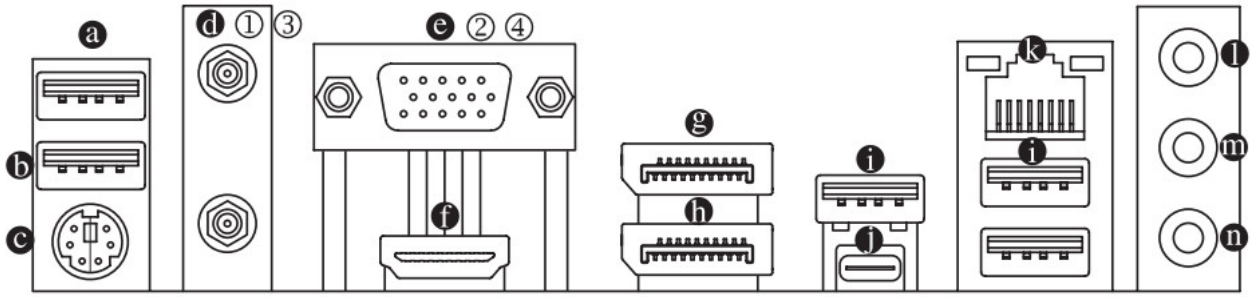
- Make sure the motherboard supports the expansion card. Carefully read the manual that came with your expansion card.
- Always turn off the computer and unplug the power cord from the power outlet before installing an expansion card to prevent hardware damage.

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



a. USB 2.0/1.1 Port (Q-Flash Plus Port)

The USB port supports the USB 2.0/1.1 specification. Use this port for USB devices. Before using Q-Flash Plus (Note) , make sure to insert the USB flash drive into this port first.

b. USB 2.0/1.1 Port

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

c. PS/2 Keyboard/Mouse Port

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

d. SMA Antenna Connectors (2T2R) MO 13

Use this connector to connect an antenna.

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

e. D-Sub Port NP 24

The D-Sub port supports a 15-pin D-Sub connector and supports a maximum resolution of 1920×1200@60 Hz (the actual resolutions supported depend on the monitor being used). Connect a monitor that supports D-Sub connection to this port.

f. HDMI Port

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 4096×2160@60 Hz, but the actual resolutions supported are dependent on the monitor being used.

g. DisplayPort

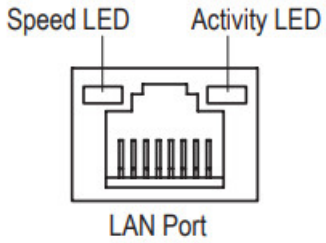
DisplayPort delivers high quality digital imaging and audio, supporting bi-directional audio transmission. DisplayPort can support HDCP 2.3 content protection mechanisms. You can use this port to connect your DisplayPort-supported monitor. Note: The DisplayPort Technology can support a maximum resolution of 4096×2304@60 Hz but the actual resolutions supported depend on the monitor being used.

- To set up a quad-display24/triple-display13 configuration, you must install motherboard drivers in the operating system first.
- After installing the HDMI/DisplayPort device, make sure to set the default sound playback device to HDMI/DisplayPort. (The item name may differ depending on your operating system.)

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

1. Only for B760M DS3H AX.
2. Only for B760M DS3H.
3. Only for B760M DS3H AX DDR4.
4. Only for B760M DS3H DDR4.

h. 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 4096×2304@60 Hz but the actual resolutions supported depend on the monitor being used.
i. 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.
j. 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.
k. 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

l. 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.
m. Line Out/Front Speaker Out (Green)
The line out jack.
n. Mic In/Center/Subwoofer Speaker Out (Pink)
The Mic in jack.
Audio Jack Configurations:

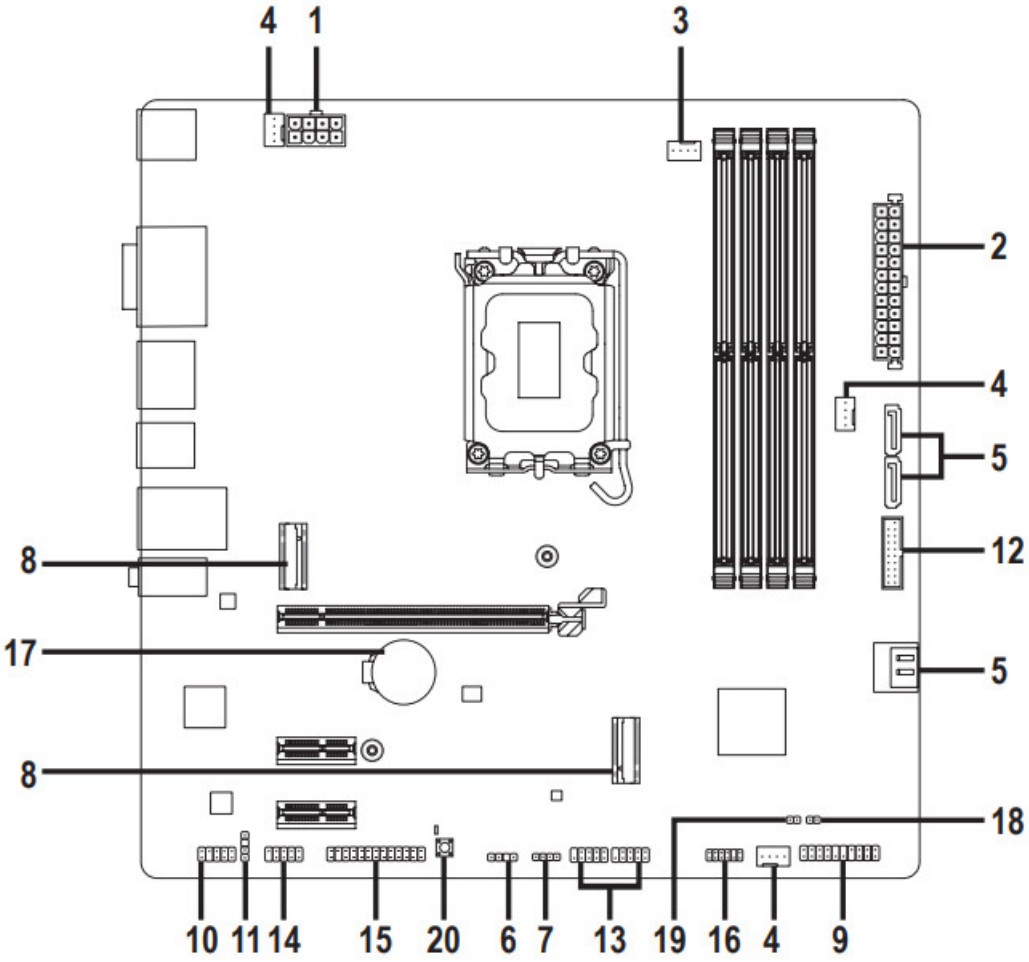
Jack	Headphone/ 2-channel	4-channel	5.1-channel	7.1-channel
i. Line In/Rear Speaker Out		✓	✓	✓
m. Line Out/Front Speaker Out	✓	✓	✓	✓
n. Mic In/Center/Subwoofer Speaker Out			✓	✓
Front Panel Line Out/Side Speaker Out				✓

 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

- 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.

2-7 Internal Connectors


4
1
3
2
4
5
12
5
8
17
8
18
10
11
14
15
20
6
7
13
19
16
4
9

1	ATX_12V_2X4
2	ATX
3	CPU_FAN
4	SYS_FAN1/2/3
5	SATA3 4/5/6/7
6	D_LED
7	LED_C
8	M2A_CPU/M2P_SB
9	F_PANEL
10	F_AUDIO
11	SPDIF_O
12	F_U32
13	F_USB1/F_USB2
14	COM 2,4
15	LPT 2,4
16	SPI_TPM
17	BAT
18	CLR_CMOS
19	RST
20	QFLASH_PLUS

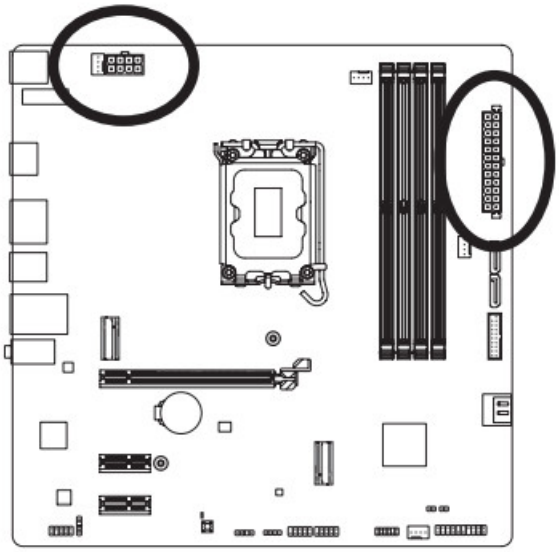
2 Only for B760M DS3H.
4 Only for B760M DS3H DDR4.

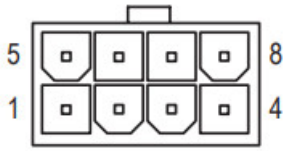
 Read the following guidelines before connecting external devices:

- 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.

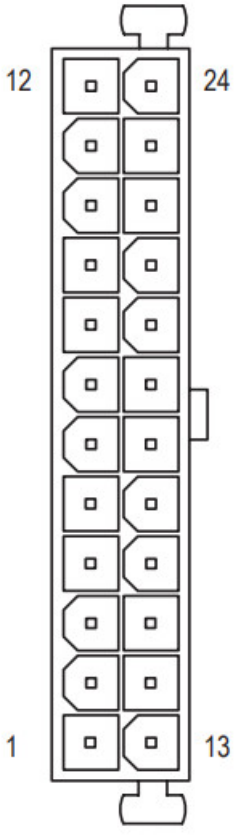
1/2) ATX_12V_2X4/ATX (2×4 12V Power Connector and 2×12 Main Power Connector)
With the use of the power connector, the power supply can supply enough stable power to all the components on the motherboard. Before connecting the power connector, first make sure the power supply is turned off and all devices 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



ATX

ATX_12V_2X4:

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

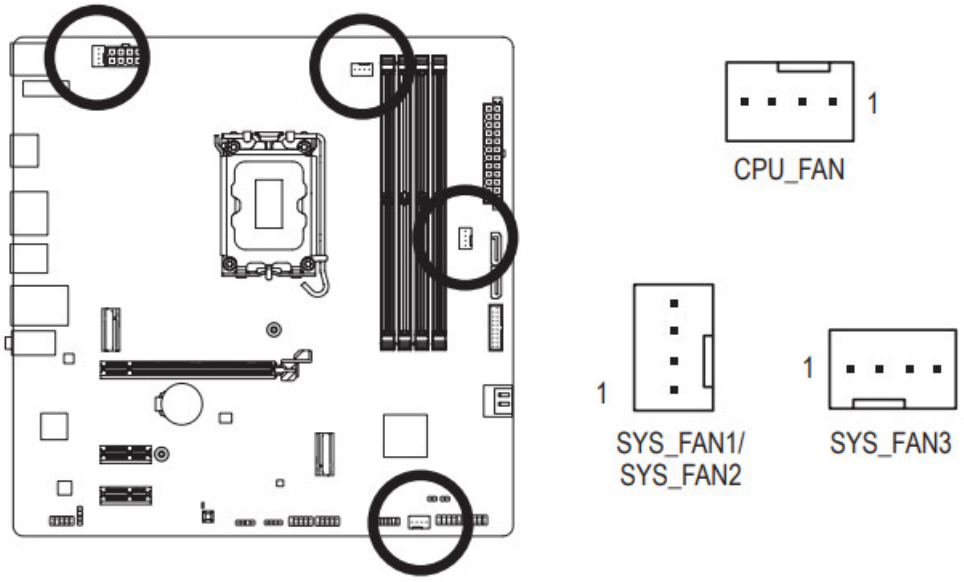
ATX:

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

3/4) CPU_FAN/SYS_FAN1/2/3 (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.



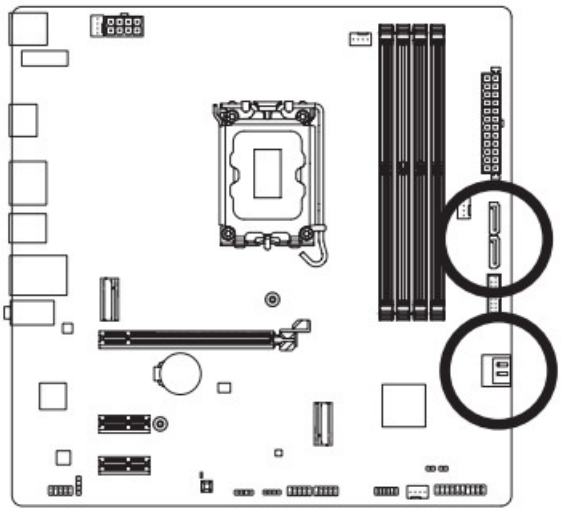
Pin No.	Definition
1	GND
2	Voltage Speed Control
3	Sense
4	PWM Speed Control

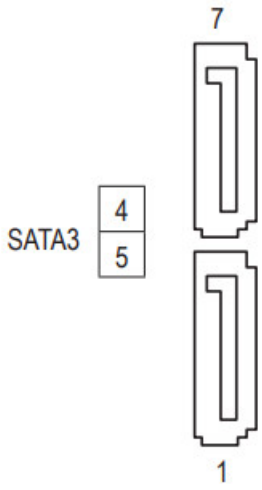
Connector	CPU_FAN	SYS_FAN1~3
Maximum Current	2A	2A
Maximum Power	24W	24W

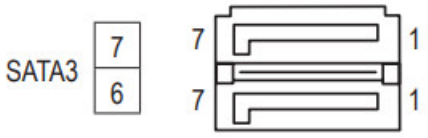
- Be sure to connect fan cables to the fan headers to prevent your CPU and system from overheating. Overheating may result in damage to the CPU or the system may hang.
- These fan headers are not configuration jumper blocks. Do not place a jumper cap on the headers.

5) SATA3 4/5/6/7 (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, RAID 5, and RAID 10. Please navigate to the “Configuring a RAID Set” page of GIGABYTE’s website for instructions on configuring a RAID array.





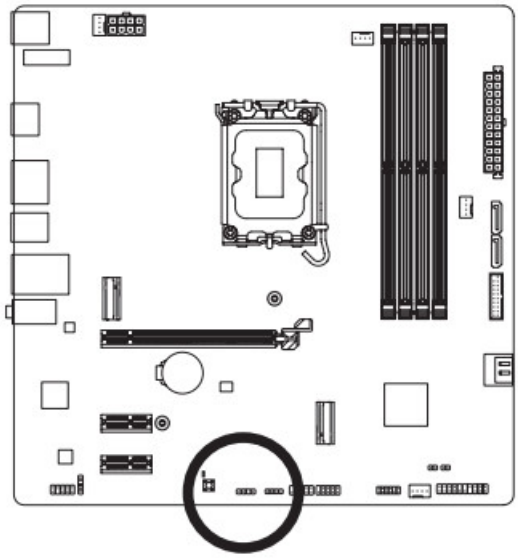


Pin No.	Definition
1	GND
2	TXP
3	TXN
4	GND
5	RXN
6	RXP
7	GND

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.

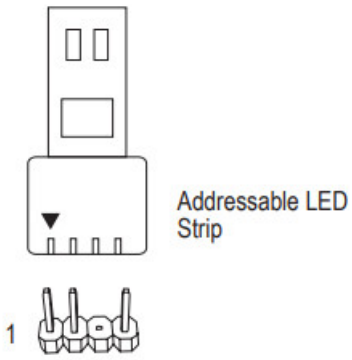
6) D_LED (Addressable LED Strip Header)

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.

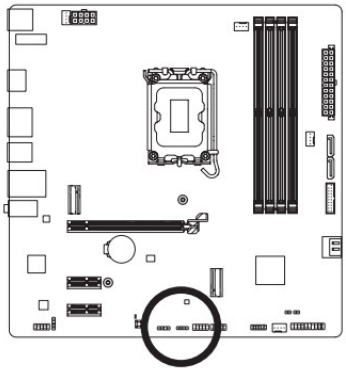


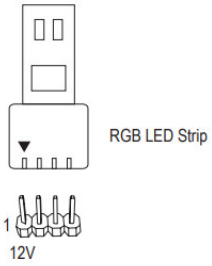
Connect your addressable LED strip to the header. The power pin (marked with a triangle on the plug) of the LED strip must be connected to Pin 1 of the addressable LED strip header. Incorrect connection may lead to the damage of the LED strip.

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



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.





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

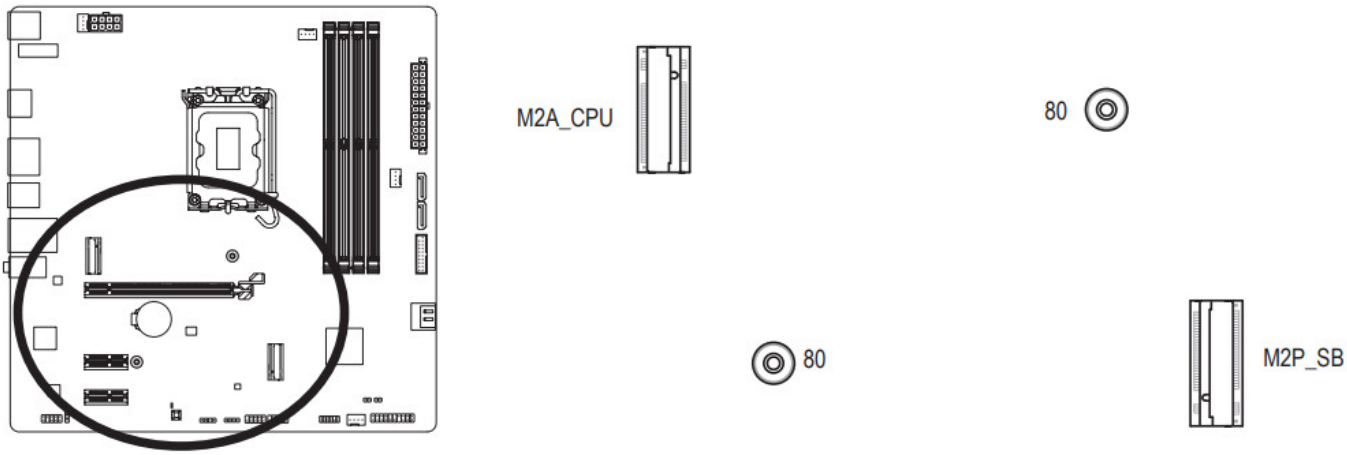
Connect your RGB LED strip to the header. The power pin (marked with a triangle on the plug) of the LED strip must be connected to Pin 1 (12V) of this header. Incorrect connection may lead to the damage of the LED strip.

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 or removing 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/M2P_SB (M.2 Socket 3 Connectors)

The M.2 connectors on the motherboard support only M.2 PCIe SSDs.



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:

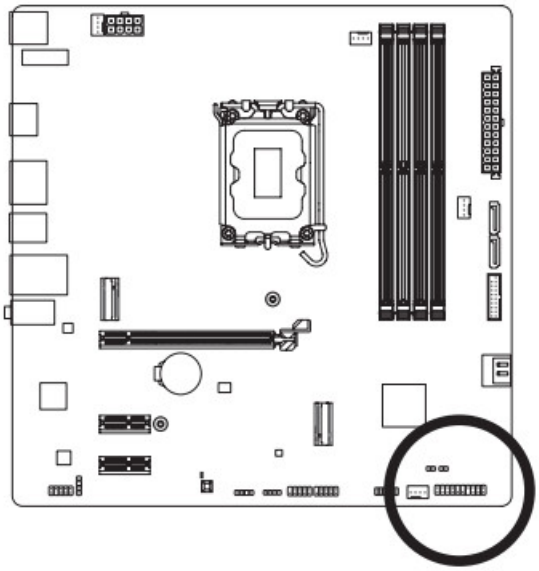
Remove the protective film from the thermal pad at bottom of the heatsink. Then replace the heatsink and secure it and the M.2 SSD to the original hole with the screw.

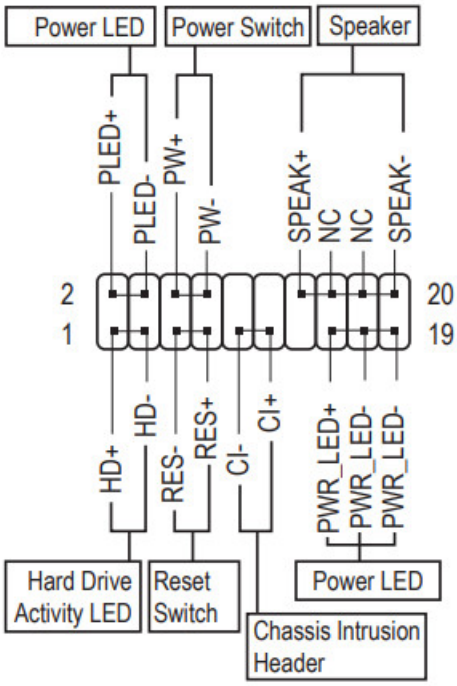
M2P_SB connector:

Follow the steps below to correctly install an M.2 SSD in the M.2 connector.
Step 1:
Pull the clip's tab up and out of the mounting hole. Slide the M.2 SSD into the connector at an angle.
Step 2:
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	✓	✓	✘
M2P_SB	✓	✓	✘

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):

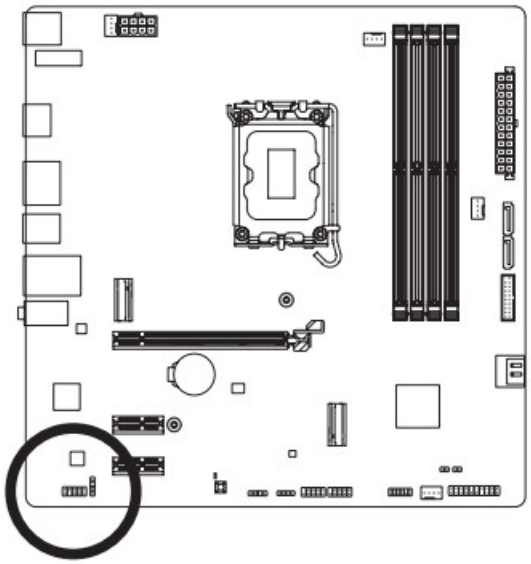
  Connects to the chassis intrusion switch/sensor on the chassis that can detect if the chassis cover has been removed. This function requires a chassis with a chassis intrusion switch/sensor.

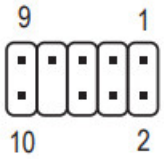
- NC: No connection.

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.



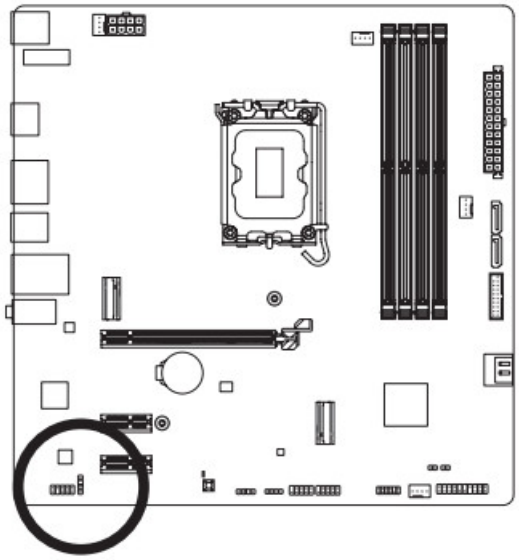


Pin No.	Definition
1	MIC L
2	GND
3	MIC R
4	NC
5	Head Phone R
6	MIC Detection
7	SENSE_SEND
8	No Pin
9	Head Phone L
10	Head Phone Detection

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) SPDIF_O (S/PDIF Out Header)

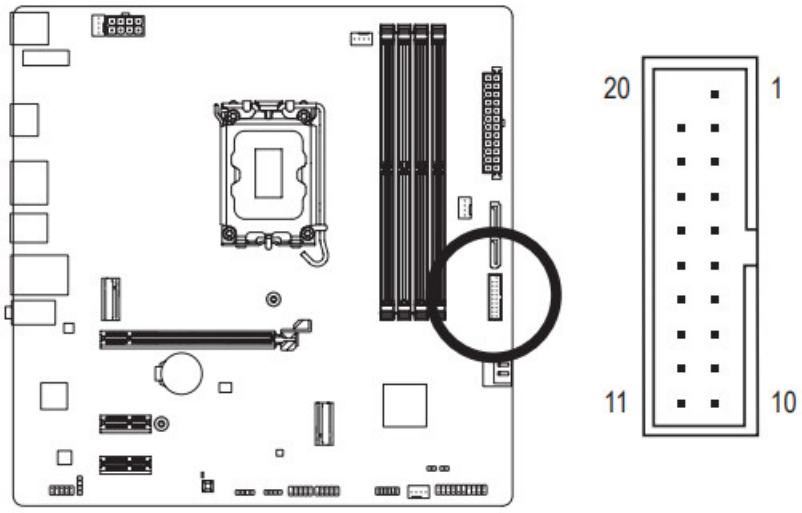
This header supports S/PDIF digital output, which allows you to connect a S/PDIF digital audio cable to output digital audio from your motherboard to the supported audio devices. For information about connecting the digital audio cable, carefully read the manual for your audio devices.



Pin No.	**Definition**
1	5VDUAL
2	No Pin
3	SPDIFO
4	GND

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.

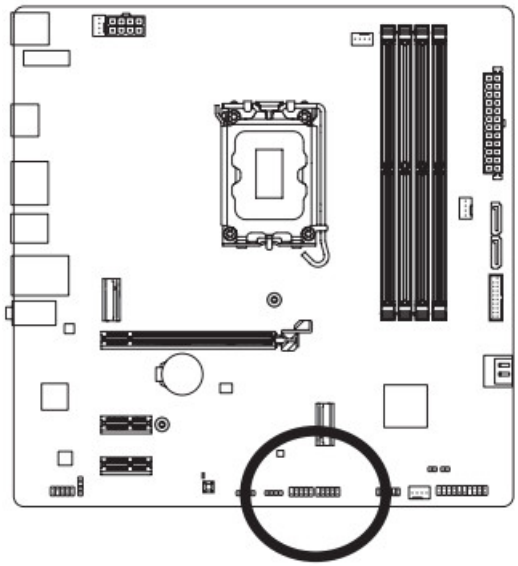


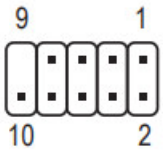
Pin No.	Definition
1	VBUS
2	SSRX1-
3	SSRX1+
4	GND
5	SSTX1-
6	SSTX1+
7	GND
8	D1-
9	D1+
10	NC
11	D2+
12	D2-
13	GND
14	SSTX2+
15	SSTX2-
16	GND
17	SSRX2+
18	SSRX2-
19	VBUS
20	No Pin

13) F_USB1/F_USB2 (USB 2.0/1.1 Headers)

The headers conform 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.



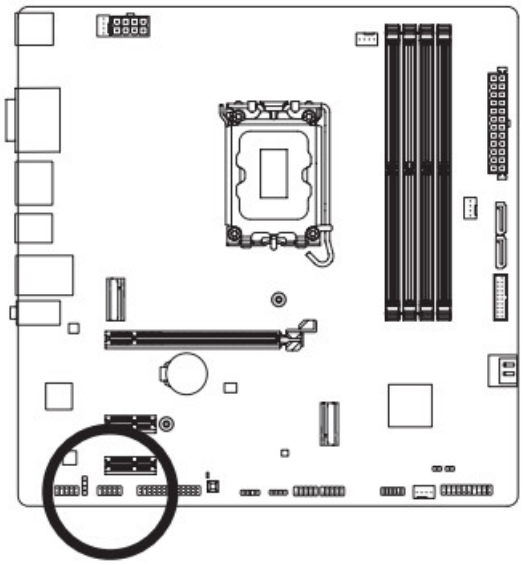


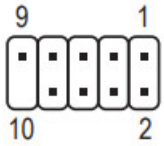
Pin No.	Definition
1	Power (5V)
2	Power (5V)
3	USB DX-
4	USB DY-
5	USB DX+
6	USB DY+
7	GND
8	GND
9	No Pin
10	NC

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) COM (Serial Port Header) 24

The COM header can provide one serial port via an optional COM port cable. For purchasing the optional COM port cable, please contact the local dealer.





Pin No.	Definition
1	NDCD-
2	NSIN
3	NSOUT
4	NDTR-
5	GND
6	NDSR-
7	NRTS
8	NCTS-
9	NRI-
10	No Pin

15) LPT (Parallel Port Header) 24

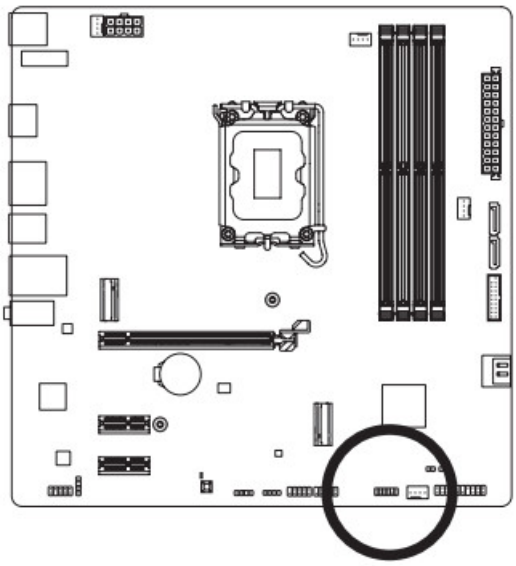
The LPT header can provide one parallel port via an optional LPT port cable. For purchasing the optional LPT port cable, please contact the local dealer.

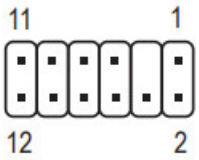
Pin No.	Definition
1	STB-
2	AFD-
3	PD0
4	ERR-
5	PD1
6	INIT-
7	PD2
8	SLIN-
9	PD3
10	GND
11	PD4
12	GND
13	PD5
14	GND
15	PD6
16	GND
17	PD7
18	GND
19	ACK-
20	GND
21	BUSY
22	GND
23	PE
24	No Pin
25	SLCT
26	GND

2 Only for B760M DS3H.
4 Only for B760M DS3H DDR4.

16) SPI_TPM (Trusted Platform Module Header)

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

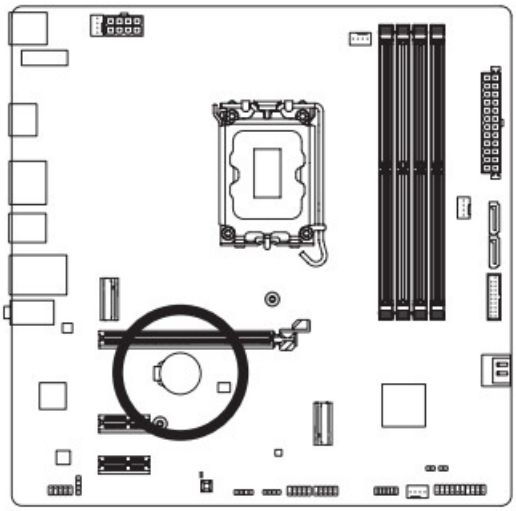


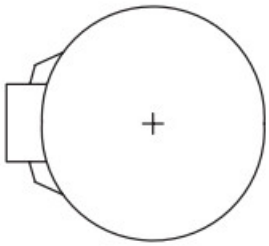


Pin No.	Definition
1	Data Output
2	Power (3.3V)
3	No Pin
4	NC
5	Data Input
6	CLK
7	Chip Select
8	GND
9	IRQ
10	NC
11	NC
12	RST

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.





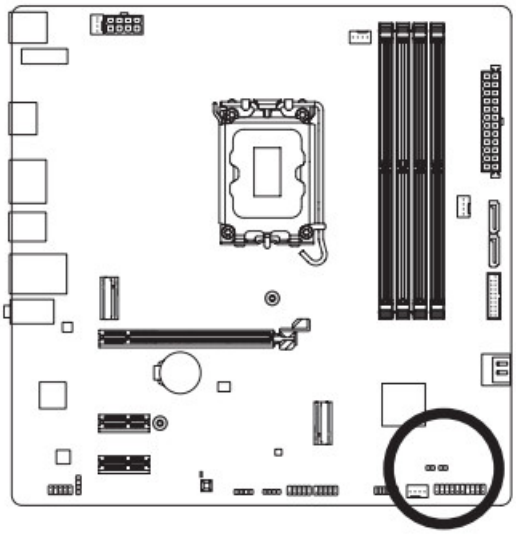
You may clear the CMOS values by removing the battery:

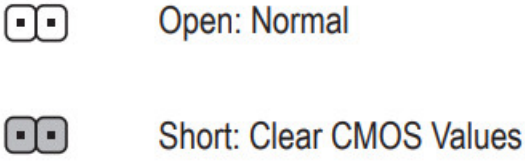
1. Turn off your computer and unplug the power cord.
2. Gently remove the battery from the battery holder and wait for one minute. (Or use a metal object like a screwdriver to touch the positive and negative terminals of the battery holder, making them short for 5 seconds.)
3. Replace the battery.
4.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

18) 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.

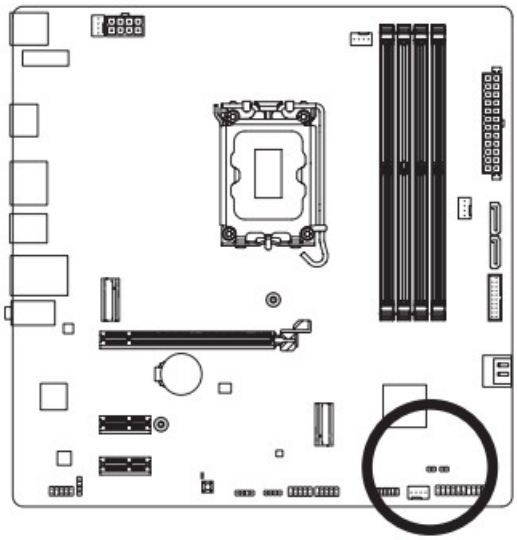




- Always turn off your computer and unplug the power cord from the power outlet before clearing the CMOS values.
- After system restart, go to BIOS Setup to load factory defaults (select Load Optimized Defaults) or manually configure the BIOS settings (please navigate to the “BIOS Setup” page of GIGABYTE’s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

19) 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.

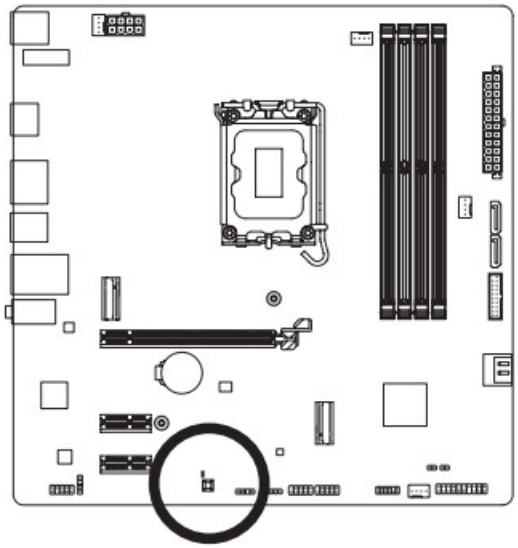


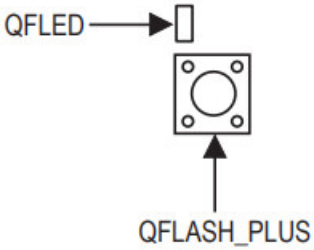
Pin No.	Definition
1	Reset
2	GND

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.

20) QFLASH_PLUS (Q-Flash Plus Button)

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.





To enable the Q-Flash Plus function, please navigate to the “Unique Features” page of GIGABYTE’s website 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/928/intel700-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.

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:

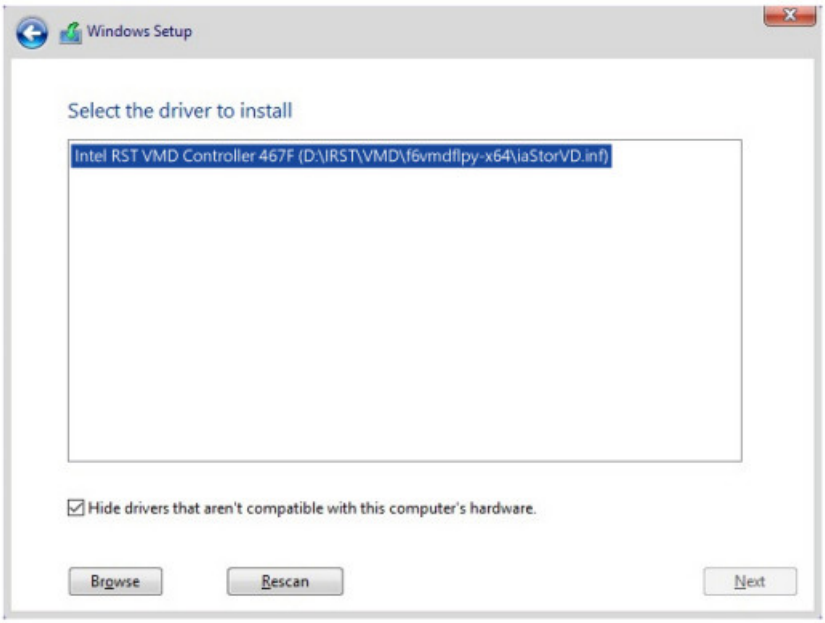
Go to GIGABYTE's website, browse to the motherboard model's web page, download the Intel SATA Preinstall driver file on the Support\Download\SATA RAID/AHCI page, unzip the file and copy the files to your USB thumb drive.

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.

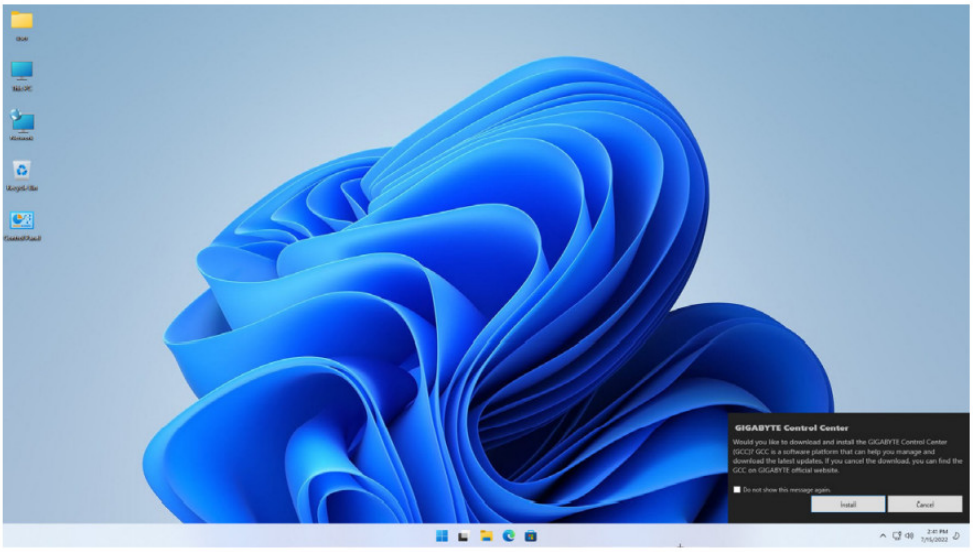
Step 3:

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.



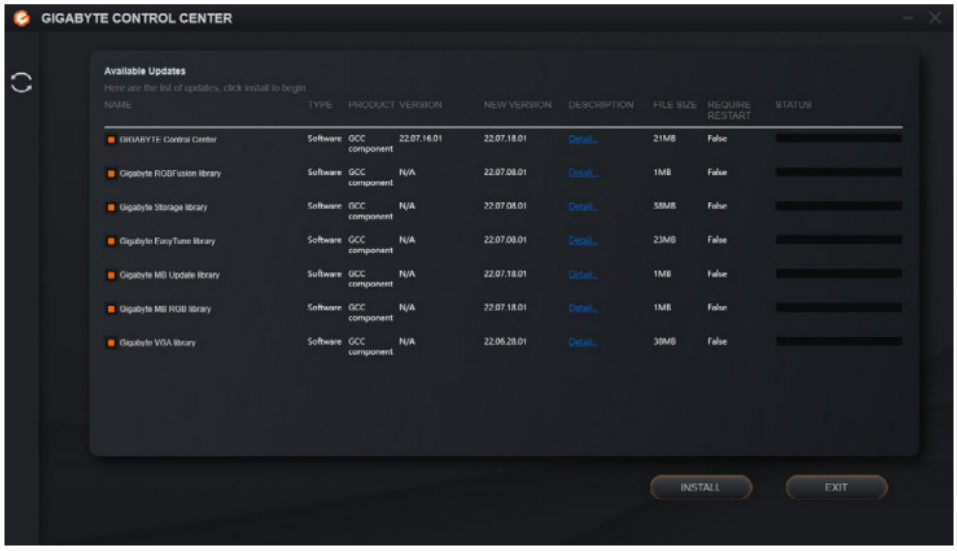
4-2 Drivers Installation

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 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/926/intel700-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 5	RAID 10
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 SATA 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.

The Intel® B760 Chipset doesn't include RAID 0, RAID 1, RAID 5, and RAID 10 support for NVMe SSD storage devices.

Please visit GIGABYTE's website for details on configuring a RAID array.
https://www.gigabyte.com/WebPage/927/intel700-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: B760M DS3H AX/B760M DS3H/B760M DS3H AX DDR4/B760M DS3H DDR4
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.

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 tocomply 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.

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.

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.

CE		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			

Wireless module approvals:

To identify your Motherboard version or revision number, look for “REV: X.X” printed on the PCB on the top left corner of the Motherboard. For example, “REV:1.0” means the revision of the motherboard is 1.0.

Motherboard revision no.:	Wireless module manufacturer, model name:
B760M DS3H AX rev. 1.0	AMD Corporation RZ608, MediaTek MT7921K
B760M DS3H AX rev. 1.1	Intel® Corporation AX210NGW
B760M DS3H AX rev. 1.2	Intel® Corporation AX211NGW
B760M DS3H AX rev. 1.3	Realtek Semiconductor Corp. RTL8852CE
B760M DS3H AX DDR4 rev. 1.0	AMD Corporation RZ608, MediaTek MT7921K
B760M DS3H AX DDR4 rev. 1.1	Intel® Corporation AX210NGW
B760M DS3H AX DDR4 rev. 1.2	Intel® Corporation AX211NGW
B760M DS3H AX DDR4 rev. 1.3	Realtek Semiconductor Corp. RTL8852CE

Approvals for wireless module RZ608, MediaTek MT7921K:

United States FCC:
FCC ID: PD9AX210NG

Canada ISED:
IC: 1000M-AX210NG

Australia ACMA:

Belarus:

China CMIIT:
CMIIT ID: 2020AJ11402 (M)

Europe:

India WPC:
ETA-SD-20201006833

Japan
R 003-220254
T D220163003
5GHz band (W53,W53) and 6GHz (LPI)
Indoor use only (Except communicate to W52 high power radio)

Oman TRA:
Applicant number: D080001
Approval number: TRA/TA-R/10113/20

Pakistan PTA:
Approved by PTA
TAC no.: 9.1000/2020

Qatar CRA:
CSA/SM/2020/S-0006291

Serbia:
M011 20

Singapore IMDA:
Complies with IMDA standards DA108442

South Korea NRRA:
R-C-INT-AX210NGW
1. : INTEL CORPORATION
2. AX210NGW
3. : 2020/09
4. : Intel Corporation / China, Taiwan

CCAH20Y10080T6

Ukraine:
UA.TR.028

United Kingdom:

Approvals for wireless module AX210NGW:

United States FCC:
FCC ID: PD9AX211NG

Canada ISED:
IC: 1000M-AX211NG

Australia ACMA:

Belarus:

China CMIIT:
CMIIT ID: 2021AJ3091 (M)

Europe:

India WPC:
ETA-SD-20210301679

Japan
R 003-220256
T D220165003

Oman TRA:
Applicant number: D080001
Approval number: TRA/TA-R/11342/21

Pakistan PTA:
Approved by PTA
TAC no.: 9.308/2021

Qatar CRA:
CSA/SM/2021/S-0007135

Serbia:
M011 21

Singapore IMDA:
Complies with IMDA standards DA108442

South Korea NRRA:
R-C-INT-AX211NGW
1. : INTEL CORPORATION
2. / AX211NGW
3. : 2021/03
4. : Intel Corporation/China,Taiwan

CCAH21Y10490T7

Ukraine:
UA.TR.028

United Kingdom:

Approvals for wireless module AX211NGW:

United States FCC: FCC ID: TX2-RTL8852CE	India WPC: ETA-SD-20220908233	Serbia: M 005 22	CCAF22Y10250T1
Canada ISED: IC: 6317A-RTL8852CE	Japan : T D220076020 R 020-220232	Singapore IMDA: Complies with IMDA standards DA105282	United Kingdom: UK CA
Australia ACMA:		South Korea NRRA: R-C-RTK-RTL8852CE	
China CMIIT: CMIIT ID: 2022AJ9304(M)			
Europe:	New-Zealand SMR: R-NZ		
	Pakistan PTA: Approved by PTA TAC no.: 9.1176/2022		

Approvals for wireless module RTL8852CE:

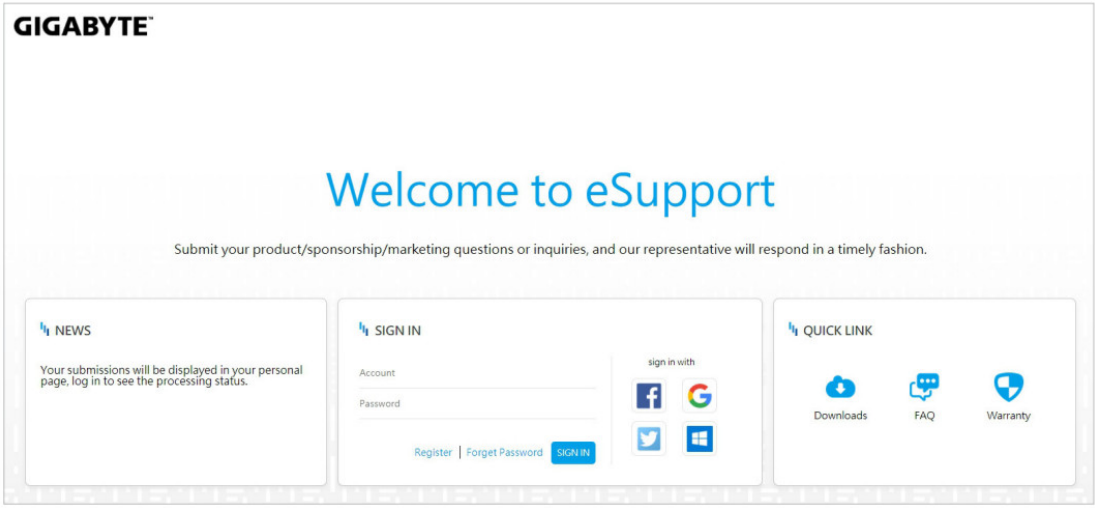
United States FCC: FCC ID: RAS-MT7921K	Japan R 020 200172 T D20 0066 020 5.15~5.35GHz 5.15~5.35GHz indoor use only	Qatar: CRASM2020S-0005758	CCAI20LP2410T7
Canada ISED: IC ID: 7542A-MT7921K		Serbia: P1620165500	
Australia ACMA:		Singapore IMDA: Complies with IMDA standards N5004-20	Thailand: RT3676
China CMIIT: CMIIT ID: 2020AP14016(M)	Jordan TRC: T/4/11/11/9230	South Korea NRRA: R-C-MD6-MT7921K : MediaTek Inc. : MT7921K : 2020/12 : Mediatek Inc./China	Ukraine: UA.032.CT.0411-20
Europe:	Kuwait: CITRA: 4472		United Kingdom: UK CA
India WPC: ETA-SD-20201007013	Pakistan PTA: Approved by PTA 9.1167/2020		

Contact Us

GIGA-BYTE TECHNOLOGY CO., LTD.
Address: No.6, Baoqiang Rd., Xindian Dist., New Taipei City 231
TEL: +886-2-8912-4000, FAX: +886-2-8912-4005
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**



GIGABYTE

Documents / Resources

	GIGABYTE B760M DS3H AX DDR4 Motherboard [pdf] User Manual B760M DS3H AX DDR4 Motherboard, B760M DS3H AX DDR4, Motherboard

References

- GIGABYTE - eSupport
- GIGABYTE Global
- Utility | Service / Support - GIGABYTE Global
- GIGABYTE
- GIGABYTE Quick-Guide
- GIGABYTE Troubleshooting Manual
- GIGABYTE Realtek Audio
- GIGABYTE Motherboards Software Manual
- GIGABYTE Intel 700 Series RAID Manual
- GIGABYTE Intel 700 Series BIOS Setup
- User Manual