



B760M-C / B760M-CX / B760M-CW

Contact Information

If you need to contact ASRock or want to know more about ASRock, you're welcome to visit ASRock's website at <http://www.asrock.com>; or you may contact your dealer for further information. For technical questions, please submit a support request form at <https://event.asrock.com/tsd.asp>

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B760M-C



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B760M-CX



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B760M-CW

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Chapter 1 Introduction

Thank you for purchasing ASRock B760M-C / B760M-CX / B760M-CW motherboard, a reliable motherboard produced under ASRock's consistently stringent quality control. It delivers excellent performance with robust design conforming to ASRock's commitment to quality and endurance.



Because the motherboard specifications and the BIOS software might be updated, the content of this documentation will be subject to change without notice. In case any modifications of this documentation occur, the updated version will be available on ASRock's website without further notice. If you require technical support related to this motherboard, please visit our website for specific information about the model you are using. You may find the latest VGA cards and CPU support list on ASRock's website as well. ASRock website <http://www.asrock.com>.

1.1 Package Contents

- ASRock B760M-C / B760M-CX / B760M-CW Motherboard (Micro ATX Form Factor)
- 2 x Serial ATA (SATA) Data Cables (Optional)
- 2 x ASRock WiFi 2.4/5 GHz Antennas (Optional) (B760M-C / B760M-CW)
- 2 x ASRock WiFi 2.4/5/6 GHz Antennas (Optional) (B760M-CX)
- 2 x Screws for M.2 Sockets (Optional)

1.2 Specifications

Platform • Micro ATX Form Factor

CPU

- Supports 14th, 13th & 12th Gen Intel® Core™ Processors (LGA1700)
- Supports Intel® Hybrid Technology
- Supports Intel® Turbo Boost Max 3.0 Technology
- Supports Intel® Thermal Velocity Boost (TVB)
- Supports Intel® Adaptive Boost Technology (ABT)

Chipset • Intel® B760

Memory

- Dual Channel DDR5 Memory Technology
- 4 x DDR5 DIMM Slots
- Supports DDR5 non-ECC, un-buffered memory up to 7200+(OC)*
- Max. capacity of system memory: 192GB
- Supports Intel® Extreme Memory Profile (XMP) 3.0

* Please refer to Memory Support List on ASRock's website for more information. (<http://www.asrock.com/>)

Expansion Slot

CPU:

- 1 x PCIe 5.0 x16 Slot (PCIE1), supports x16 mode*

Chipset:

- 1 x PCIe 4.0 x16 Slot (PCIE2), supports x1 mode*
- 1 x PCIe 4.0 x16 Slot (PCIE3), supports x1 mode*
- 1 x PCIe 4.0 x16 Slot (PCIE4), supports x1 mode*
- 1 x Vertical M.2 Socket (Key E), supports type 2230 WiFi/BT PCIe WiFi module and Intel® CNVio/CNVio2 (Integrated WiFi/BT)

* Supports NVMe SSD as boot disks

Graphics

- Intel® UHD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated.
- Intel® X^e Graphics Architecture (Gen 12)
- 1 x HDMI 2.1 TMDS Compatible, supports HDCP 2.3 and max. resolution up to 4K 60Hz

- Audio**
- 7.1 CH HD Audio (Realtek ALC897 Audio Codec)

- LAN**
- Gigabit LAN 10/100/1000 Mb/s
 - Realtek 8111H

- Wireless LAN (B760M-C / B760M-CW)**
- 802.11ac WiFi Module
 - Supports IEEE 802.11a/b/g/n/ac
 - Supports Dual-Band (2.4/5 GHz)
 - Supports high speed wireless connections up to 433Mbps
 - Supports Bluetooth + High speed class II

- Wireless LAN (B760M-X)**
- 802.11axe Wi-Fi 6E Module
 - Supports IEEE 802.11a/b/g/n/ac/ax/axe
 - Supports Dual-Band 2x2 with extended 6GHz band* support
- * Wi-Fi 6E (6GHz band) will be supported by Microsoft® Windows® 11. The availability will depend on the different regulation status of each country and region. It will be activated (for supported countries) through Windows Update and software updates once available.
- * A 6GHz compatible router is required for 6E functionality.
- 2 antennas to support 2 (Transmit) x 2 (Receive) diversity technology
 - Supports Bluetooth 5.2
 - Supports MU-MIMO

- USB**
- 2 x USB 3.2 Gen1 Type-C (1 Rear, 1 Front)
 - 5 x USB 3.2 Gen1 Type-A (3 Rear, 2 Front)
 - 8 x USB 2.0 (4 Rear, 4 Front)
- * All USB ports support ESD Protection

- Rear Panel I/O**
- 2 x Antenna Ports
 - 1 x HDMI Port
 - 1 x USB 3.2 Gen1 Type-C Port
 - 3 x USB 3.2 Gen1 Type-A Ports
 - 4 x USB 2.0 Ports
 - 1 x RJ-45 LAN Port
 - HD Audio Jacks: Line in / Front Speaker / Microphone

Storage**CPU:**

- 1 x Hyper M.2 Socket (M2_1, Key M), supports type 2242/2260/2280 PCIe Gen4x4 (64 Gb/s) mode*

Chipset:

- 1 x Hyper M.2 Socket (M2_2, Key M), supports type 2280 PCIe Gen4x4 (64 Gb/s) mode*
- 4 x SATA3 6.0 Gb/s Connectors

ASMedia ASM1061:

- 4 x SATA3 6.0 Gb/s Connectors

* Supports Intel® Volume Management Device (VMD)

* Supports NVMe SSD as boot disks

RAID

- Supports RAID 0, RAID 1, RAID 5 and RAID 10 for SATA storage devices

Connector

- 1 x SPI TPM Header
- 1 x Chassis Intrusion and Speaker Header
- 1 x RGB LED Header*
- 3 x Addressable LED Headers**
- 1 x CPU Fan Connector (4-pin)***
- 1 x CPU/Water Pump Fan Connector (4-pin) (Smart Fan Speed Control)****
- 4 x Chassis/Water Pump Fan Connectors (4-pin) (Smart Fan Speed Control)*****
- 1 x 24 pin ATX Power Connector
- 1 x 8 pin 12V Power Connector (Hi-Density Power Connector)
- 1 x Front Panel Audio Connector
- 2 x USB 2.0 Headers (Support 4 USB 2.0 ports)
- 1 x USB 3.2 Gen1 Header (Supports 2 USB 3.2 Gen1 ports)
- 1 x Front Panel Type C USB 3.2 Gen1 Header

* Supports in total up to 12V/3A, 36W LED Strip

** Support in total up to 5V/3A, 15W LED Strip

*** CPU_FAN1 supports the fan power up to 1A (12W).

**** CPU_FAN2/WP supports the fan power up to 2A (24W).

***** CHA_FAN1~4/WP support the fan power up to 2A (24W).

***** CPU_FAN2/WP and CHA_FAN1~4/WP can auto detect if 3-pin or 4-pin fan is in use.

**BIOS
Feature**

- AMI UEFI Legal BIOS with GUI support

OS

- Microsoft® Windows® 10 64-bit / 11 64-bit

**Certifica-
tions**

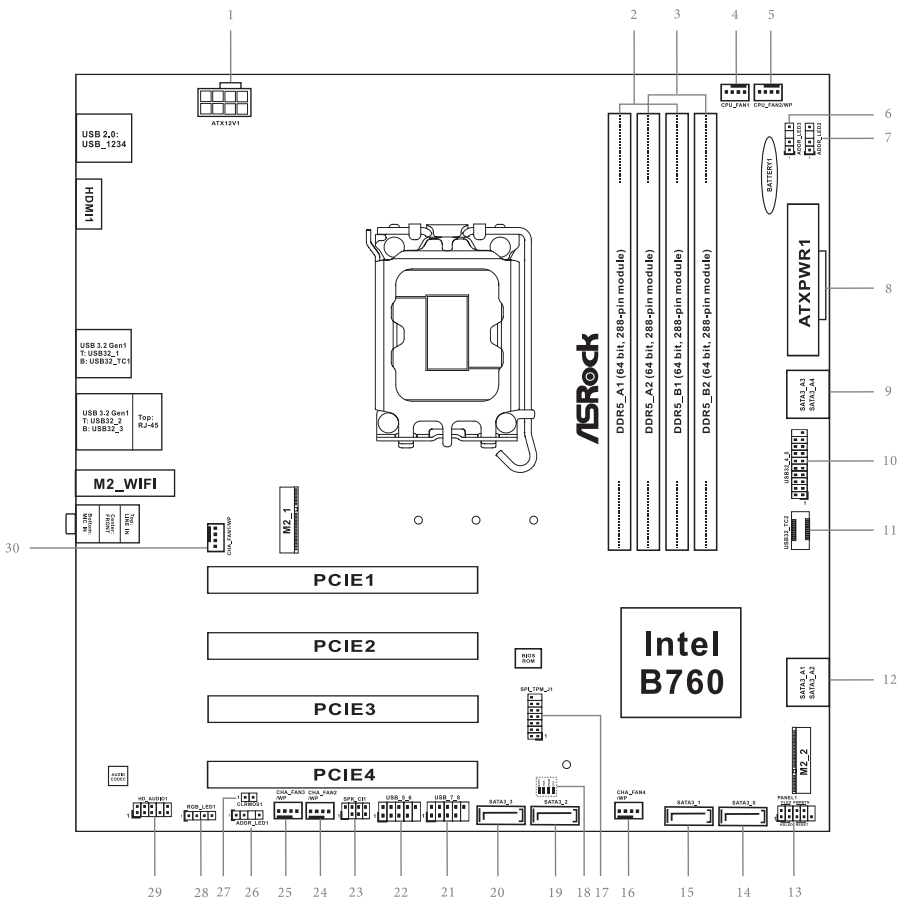
- FCC, CE
- ErP/EuP ready (ErP/EuP ready power supply is required)
- CEC Tier II ready

* For detailed product information, please visit our website: <http://www.asrock.com>



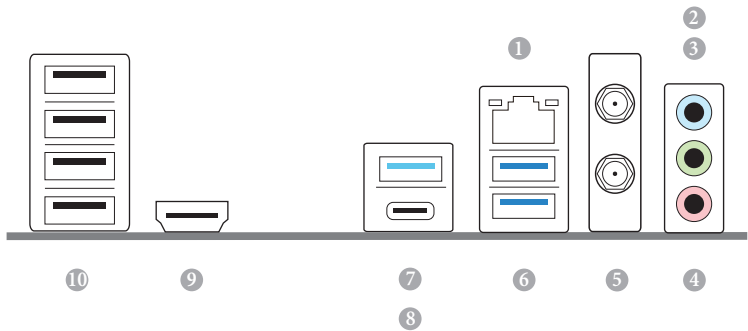
Please realize that there is a certain risk involved with overclocking, including adjusting the setting in the BIOS, applying Untied Overclocking Technology, or using third-party overclocking tools. Overclocking may affect your system's stability, or even cause damage to the components and devices of your system. It should be done at your own risk and expense. We are not responsible for possible damage caused by overclocking.

1.3 Motherboard Layout



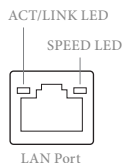
No.	Description
1	ATX 12V Power Connector (ATX12V1)
2	2 x 288-pin DDR5 DIMM Slots (DDR5_A1, DDR5_B1)
3	2 x 288-pin DDR5 DIMM Slots (DDR5_A2, DDR5_B2)
4	CPU Fan Connector (CPU_FAN1)
5	CPU/Water Pump Fan Connector (CPU_FAN2/WP)
6	Addressable LED Header (ADDR_LED3)
7	Addressable LED Header (ADDR_LED2)
8	ATX Power Connector (ATXPWR1)
9	SATA3 Connectors (SATA3_A3)(Upper), (SATA3_A4)(Lower)
10	USB 3.2 Gen1 Header (USB32_4_5)
11	Front Panel Type C USB 3.2 Gen1 Header (USB32_TC2)
12	SATA3 Connectors (SATA3_A1)(Upper), (SATA3_A2)(Lower)
13	System Panel Header (PANEL1)
14	SATA3 Connector (SATA3_0)
15	SATA3 Connector (SATA3_1)
16	Chassis/Water Pump Fan Connector (CHA_FAN4/WP)
17	SPI TPM Header (SPI_TPM_J1)
18	Post Status Checker (PSC)
19	SATA3 Connector (SATA3_2)
20	SATA3 Connector (SATA3_3)
21	USB 2.0 Header (USB_7_8)
22	USB 2.0 Header (USB_5_6)
23	Chassis Intrusion and Speaker Header (SPK_C11)
24	Chassis/Water Pump Fan Connector (CHA_FAN2/WP)
25	Chassis/Water Pump Fan Connector (CHA_FAN3/WP)
26	Addressable LED Header (ADDR_LED1)
27	Clear CMOS Jumper (CLRMOS1)
28	RGB LED Header (RGB_LED1)
29	Front Panel Audio Header (HD_AUDIO1)
30	Chassis/Water Pump Fan Connector (CHA_FAN1/WP)

1.4 I/O Panel



No.	Description	No.	Description
1	LAN RJ-45 Port*	6	USB 3.2 Gen1 Type-A Ports (USB32_23)
2	Line In (Light Blue)**	7	USB 3.2 Gen1 Type-A Port (USB32_1)
3	Front Speaker (Lime)**	8	USB 3.2 Gen1 Type-C Port (USB32_TC1)
4	Microphone (Pink)**	9	HDMI Port
5	Antenna Ports	10	USB 2.0 Ports (USB_1234)

* There are two LEDs on each LAN port. Please refer to the table below for the LAN port LED indications.

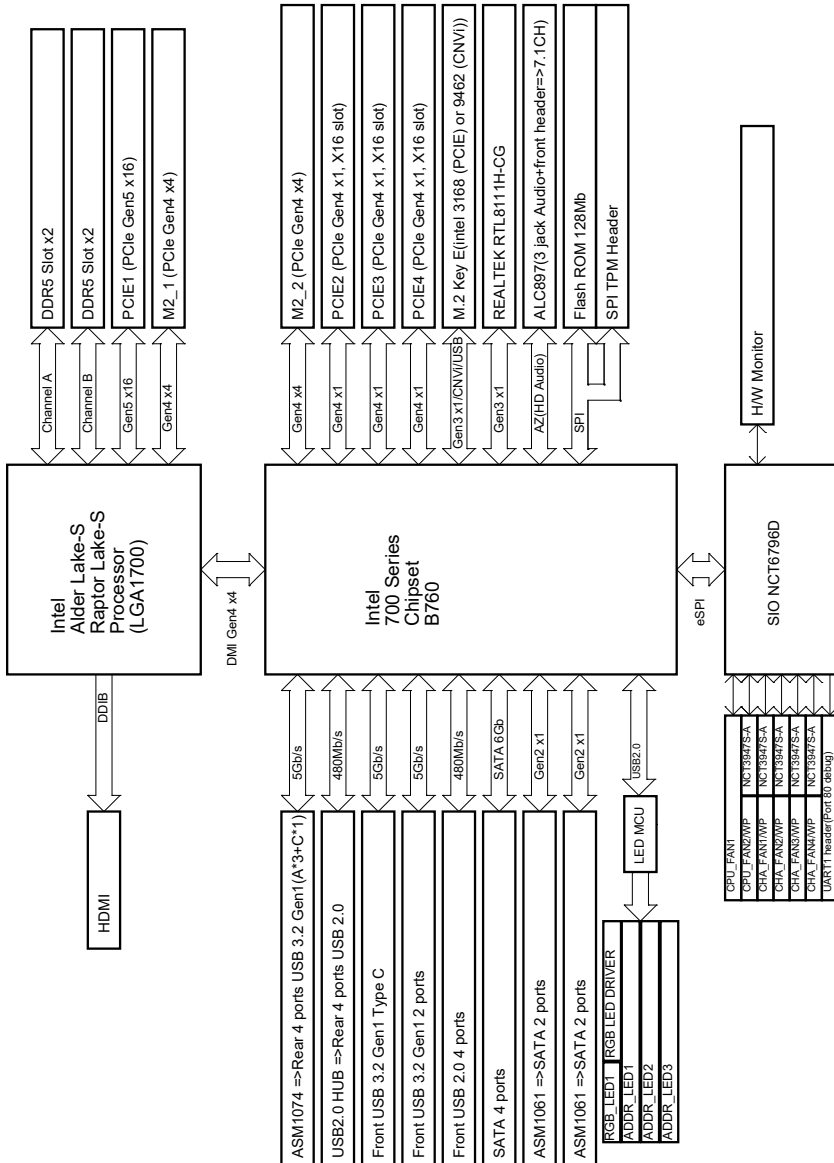


Activity / Link LED		Speed LED	
Status	Description	Status	Description
Off	No Link	Off	10Mbps connection
Blinking	Data Activity	Orange	100Mbps connection
On	Link	Green	1Gbps connection

** Function of the Audio Ports in 7.1-channel Configuration:

Port	Function
Light Blue (Rear panel)	Rear Speaker Out
Lime (Rear panel)	Front Speaker Out
Pink (Rear panel)	Central /Subwoofer Speaker Out
Lime (Front panel)	Side Speaker Out

1.5 Block Diagram



1.6 WiFi-802.11ac Module and ASRock WiFi 2.4/5 GHz Antennas (B760M-C / B760M-CW)

WiFi-802.11ac + BT Module

This motherboard comes with an exclusive WiFi 802.11 a/b/g/n/ac + BT module that offers support for WiFi 802.11 a/b/g/n/ac connectivity standards and Bluetooth. WiFi + BT module is an easy-to-use wireless local area network (WLAN) adapter to support WiFi + BT. Bluetooth standard features Smart Ready technology that adds a whole new class of functionality into the mobile devices. BT also includes Low Energy Technology and ensures extraordinary low power consumption for PCs.

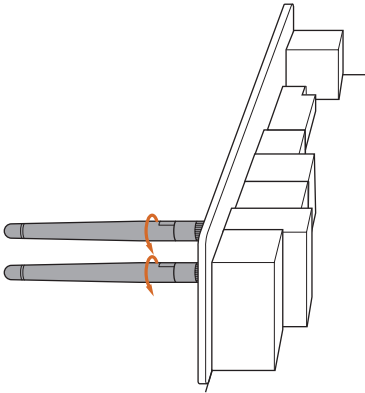
* The transmission speed may vary according to the environment.

WiFi Antennas Installation Guide



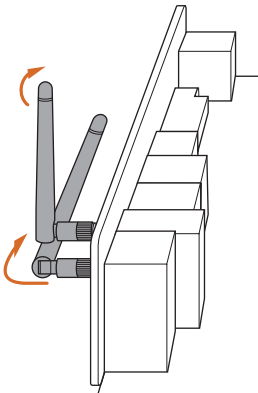
Step 1

Prepare the WiFi 2.4/5 GHz Antennas that come with the package.



Step 2

Connect the two WiFi 2.4/5 GHz Antennas to the antenna connectors. Turn the antenna clockwise until it is securely connected.



Step 3

Set the WiFi 2.4/5 GHz Antenna as shown in the illustration.

*You may need to adjust the direction of the antenna for a stronger signal.

1.7 802.11ax Wi-Fi 6E Module and ASRock WiFi 2.4/5/6 GHz Antennas (B760M-CX)

802.11ax Wi-Fi 6E + BT Module

This motherboard comes with an exclusive 802.11 a/b/g/n/ac/ax/ax Wi-Fi 6E + BT module that offers support for 802.11 a/b/g/n/ac/ax/ax Wi-Fi 6E connectivity standards and Bluetooth. Wi-Fi 6E + BT module is an easy-to-use wireless local area network (WLAN) adapter to support Wi-Fi 6E + BT. Bluetooth standard features Smart Ready technology that adds a whole new class of functionality into the mobile devices. BT also includes Low Energy Technology and ensures extraordinary low power consumption for PCs.

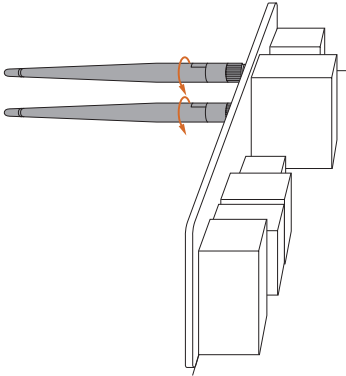
- * The transmission speed may vary according to the environment.
- * Wi-Fi 6E (6GHz band) will be supported by Microsoft® Windows® 11. The availability will depend on the different regulation status of each country and region. It will be activated (for supported countries) through Windows Update and software updates once available.
- * A 6GHz compatible router is required for 6E functionality.

WiFi Antennas Installation Guide



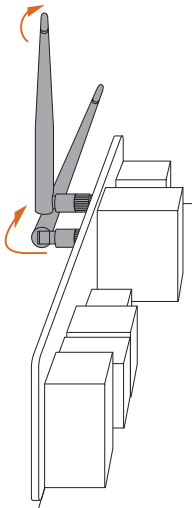
Step 1

Prepare the WiFi 2.4/5/6 GHz Antennas that come with the package.



Step 2

Connect the two WiFi 2.4/5/6 GHz Antennas to the antenna connectors. Turn the antenna clockwise until it is securely connected.



Step 3

Set the WiFi 2.4/5/6 GHz Antenna as shown in the illustration.

*You may need to adjust the direction of the antenna for a stronger signal.

Chapter 2 Installation

This is a Micro ATX form factor motherboard. Before you install the motherboard, study the configuration of your chassis to ensure that the motherboard fits into it.

Pre-installation Precautions

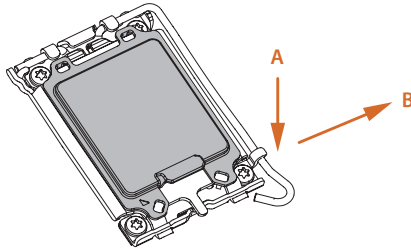
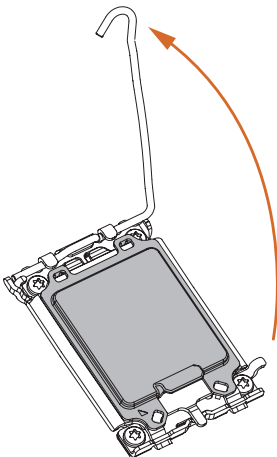
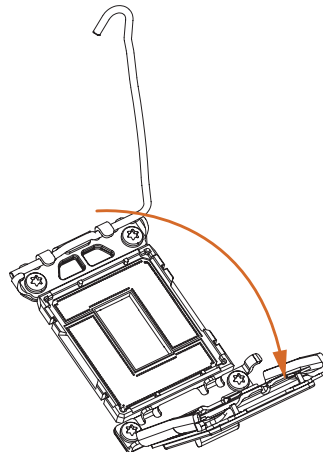
Take note of the following precautions before you install motherboard components or change any motherboard settings.

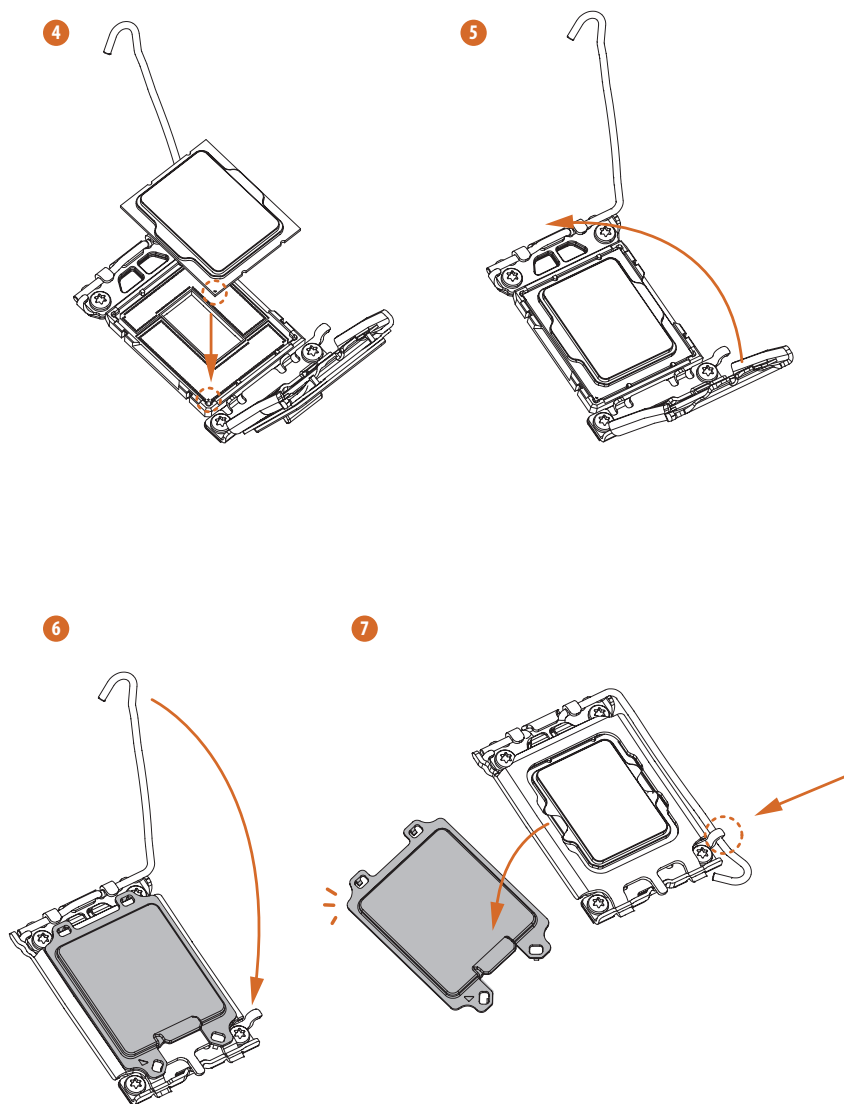
- Make sure to unplug the power cord before installing or removing the motherboard components. Failure to do so may cause physical injuries and damages to motherboard components.
- In order to avoid damage from static electricity to the motherboard's components, NEVER place your motherboard directly on a carpet. Also remember to use a grounded wrist strap or touch a safety grounded object before you handle the components.
- Hold components by the edges and do not touch the ICs.
- Whenever you uninstall any components, place them on a grounded anti-static pad or in the bag that comes with the components.
- When placing screws to secure the motherboard to the chassis, please do not over-tighten the screws! Doing so may damage the motherboard.

2.1 Installing the CPU



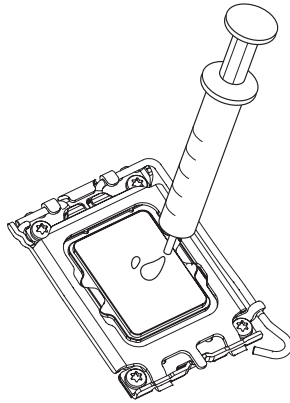
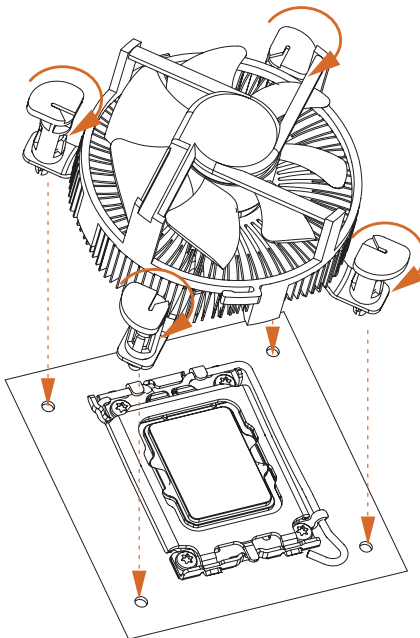
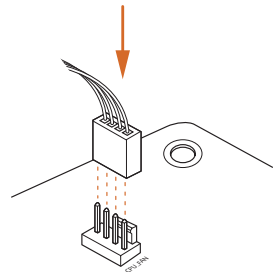
1. Before you insert the 1700-Pin CPU into the socket, please check if the **PnP cap** is on the socket, if the CPU surface is unclean, or if there are any **bent pins** in the socket. Do not force to insert the CPU into the socket if above situation is found. Otherwise, the CPU will be seriously damaged.
2. Unplug all power cables before installing the CPU.

1**2****3**



Please save and replace the cover if the processor is removed. The cover must be placed if you wish to return the motherboard for after service.

2.2 Installing the CPU Fan and Heatsink

**1****2**

2.3 Installing Memory Modules (DIMM)

This motherboard provides four 288-pin DDR5 (Double Data Rate 5) DIMM slots, and supports Dual Channel Memory Technology.



1. For dual channel configuration, you always need to install identical (the same brand, speed, size and chip-type) DDR5 DIMM pairs.
2. It is unable to activate Dual Channel Memory Technology with only one or three memory module installed.
3. It is not allowed to install a DDR, DDR2, DDR3 or DDR4 memory module into a DDR5 slot; otherwise, this motherboard and DIMM may be damaged.
4. The DIMM only fits in one correct orientation. It will cause permanent damage to the motherboard and the DIMM if you force the DIMM into the slot at incorrect orientation.

Recommended Memory Configuration

1 DIMM



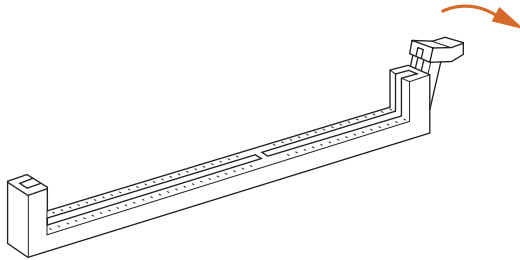
2 DIMMs



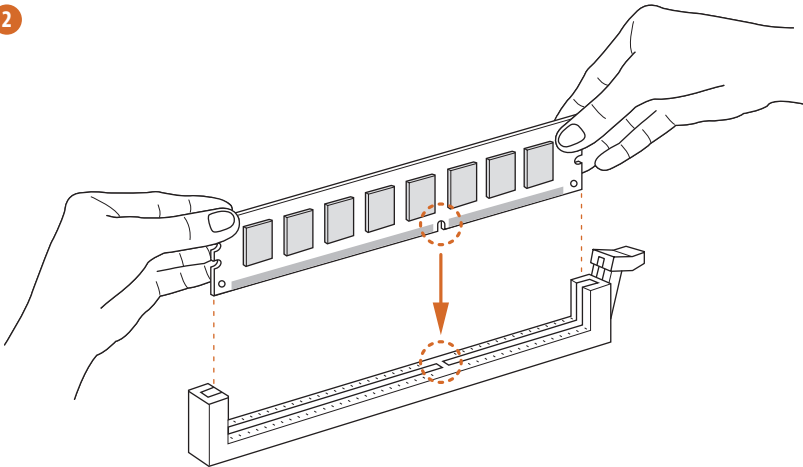
4 DIMMs



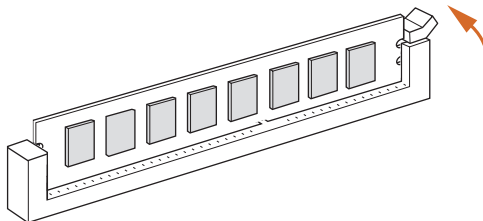
1



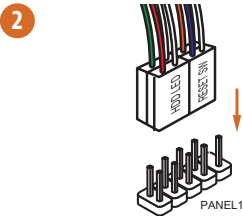
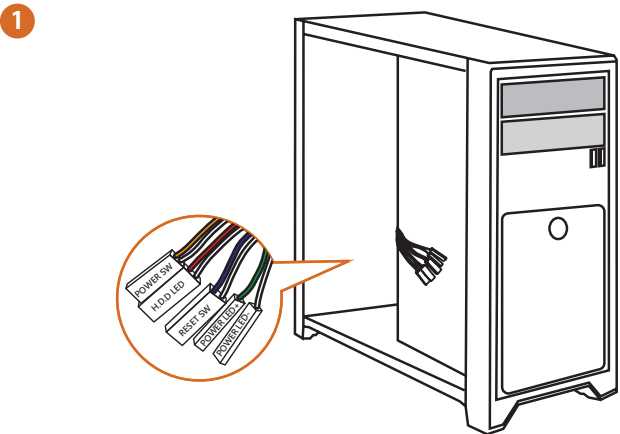
2



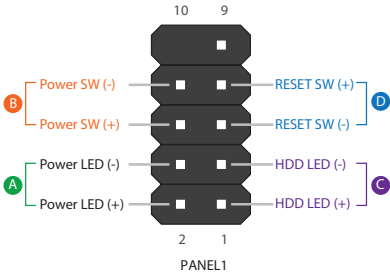
3



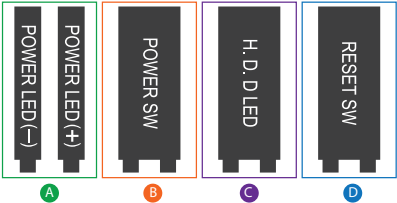
2.4 Connecting the Front Panel Header



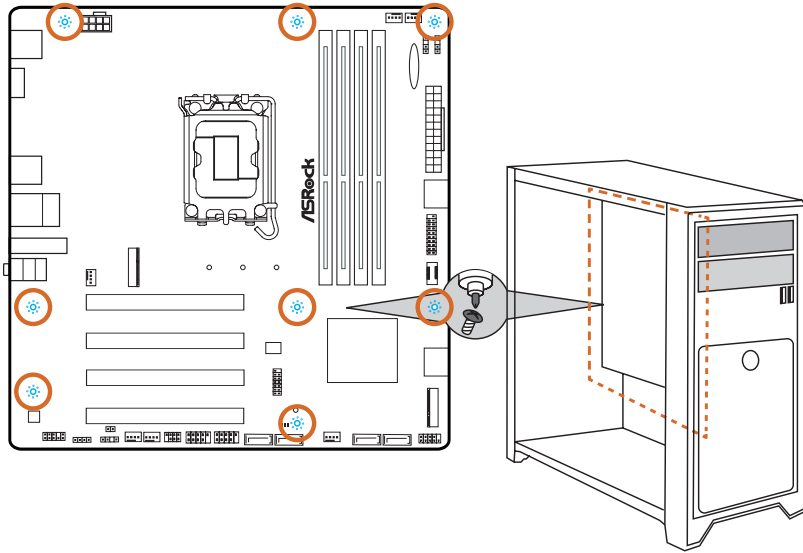
System Panel Header



Front Panel Wires

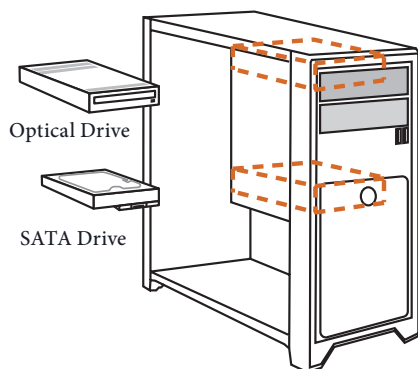


2.5 Installing the Motherboard

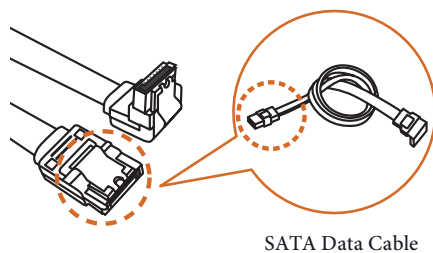


2.6 Installing SATA Drives

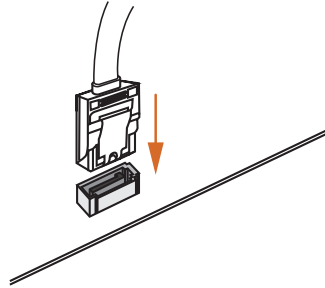
1



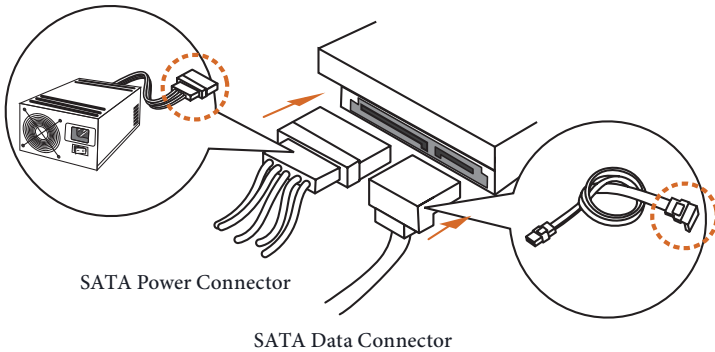
2



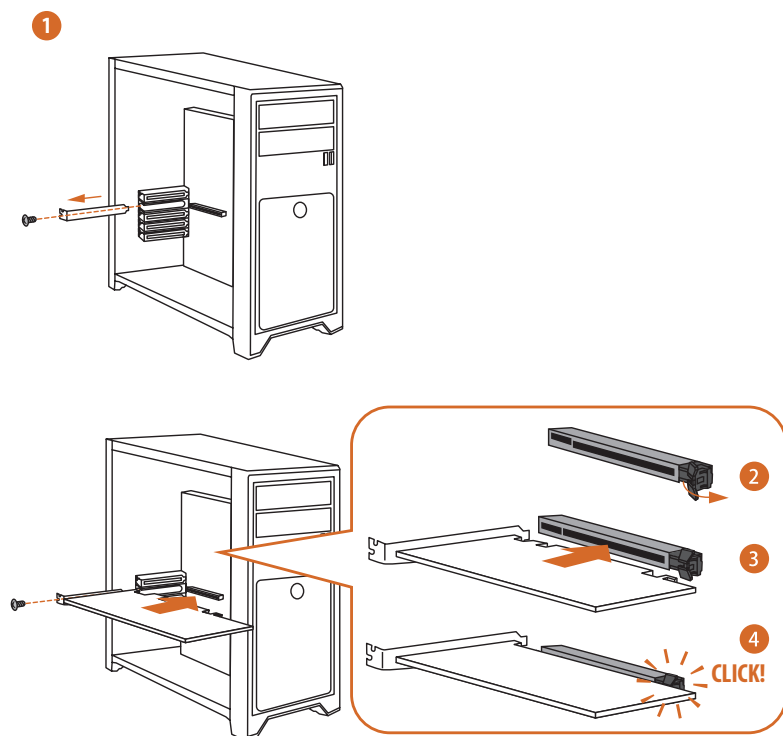
3



4



2.7 Installing a Graphics Card



Expansion Slots (PCIe Slots)

There are 4 PCI Express slots on the motherboard.



Before installing an expansion card, please make sure that the power supply is switched off or the power cord is unplugged. Please read the documentation of the expansion card and make necessary hardware settings for the card before you start the installation.

PCIe slots:

PCIE1 (PCIe 5.0 x16 slot) is used for PCIe x16 lane width graphics cards.

PCIE2 (PCIe 4.0 x16 slot) is used for PCIe x1 lane width cards.

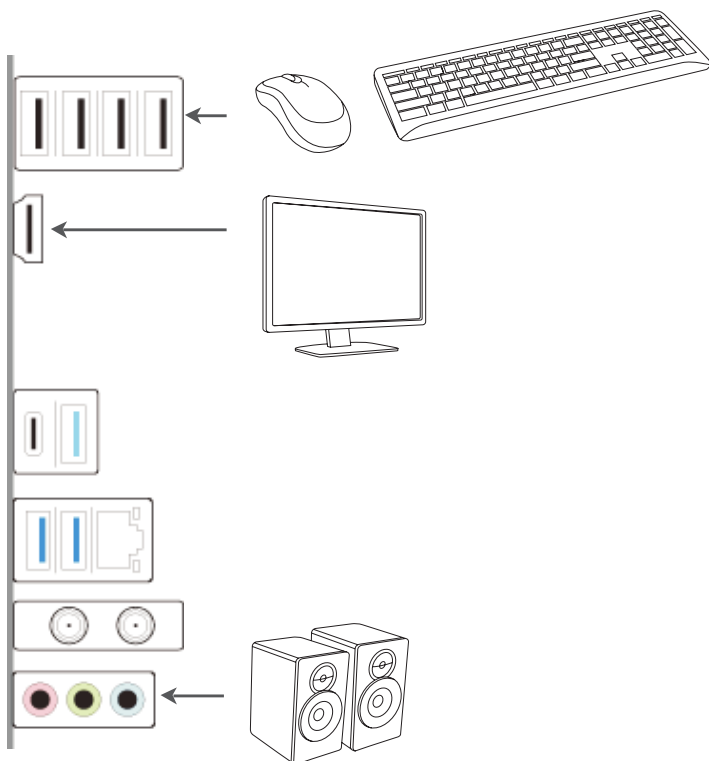
PCIE3 (PCIe 4.0 x16 slot) is used for PCIe x1 lane width cards.

PCIE4 (PCIe 4.0 x16 slot) is used for PCIe x1 lane width cards.

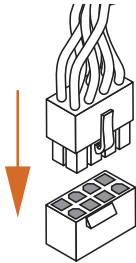
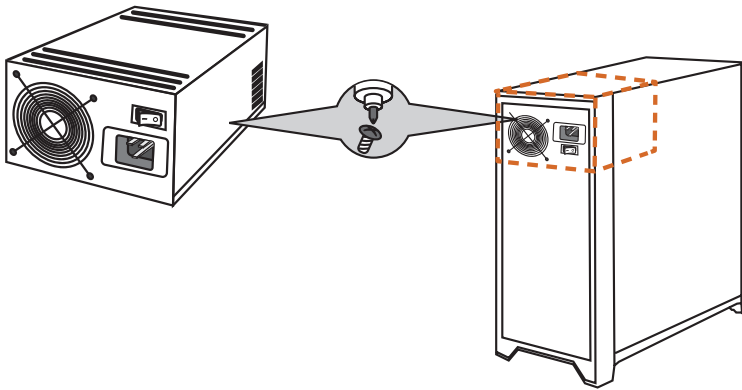


For a better thermal environment, please connect a chassis fan to the motherboard's chassis fan connectors (CHA_FAN1~4/WP) when using multiple graphics cards.

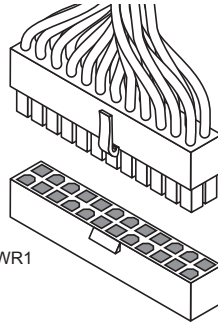
2.8 Connecting Peripheral Devices



2.9 Connecting the Power Connectors

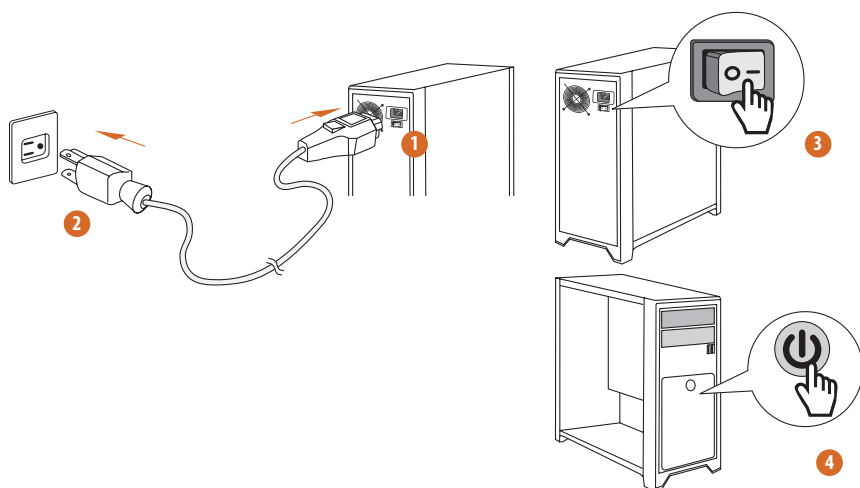


ATX12V1



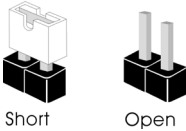
ATXPWR1

2.10 Power On



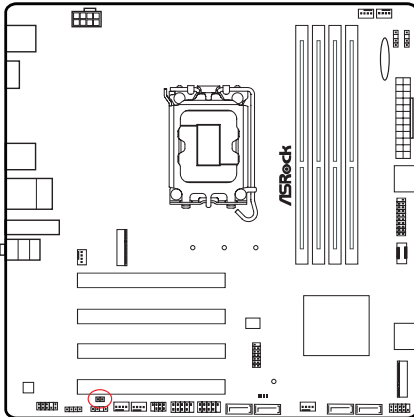
2.11 Jumpers Setup

The illustration shows how jumpers are setup. When the jumper cap is placed on the pins, the jumper is “Short”. If no jumper cap is placed on the pins, the jumper is “Open”.



Clear CMOS Jumper
(CLRMOSt) (see p.6, No. 27)

CLRMOSt allows you to clear the data in CMOS. The data in CMOS includes system setup information such as system password, date, time, and system setup parameters. To clear and reset the system parameters to default setup, please turn off the computer and unplug the power cord, then use a jumper cap to short the pins on CLRMOSt for 3 seconds. Please remember to remove the jumper cap after clearing the CMOS. If you need to clear the CMOS when you just finish updating the BIOS, you must boot up the system first, and then shut it down before you do the clear-CMOS action.



CLRMOSt



2-pin Jumper

Short: Clear CMOS

Open: Default

2.12 Onboard Headers and Connectors

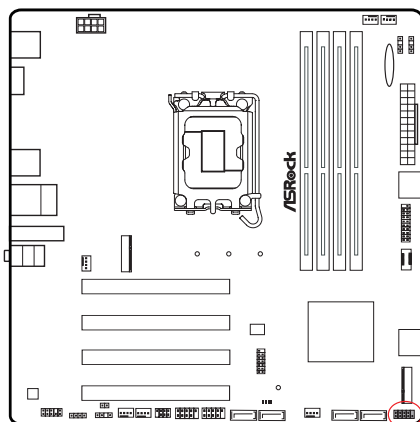


Onboard headers and connectors are **NOT** jumpers. Do **NOT** place jumper caps over these headers and connectors. Placing jumper caps over the headers and connectors will cause permanent damage to the motherboard.

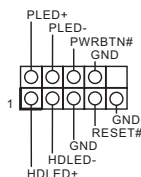
System Panel Header

(9-pin PANEL1) (see p.6, No. 13)

Connect the power button, reset button 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.



PANEL1



PWRBTN (Power Button):

Connect to the power button on the chassis front panel. You may configure the way to turn off your system using the power button.

RESET (Reset Button):

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

PLED (System Power LED):

Connect to the power status indicator on the chassis front panel. The LED is on when the system is operating. The LED keeps blinking when the system is in S1/S3 sleep state. The LED is off when the system is in S4 sleep state or powered off (S5).

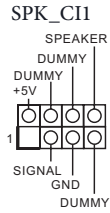
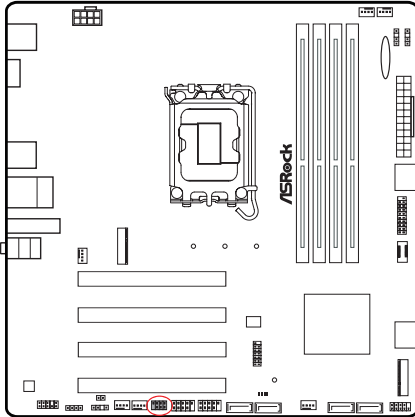
HDLED (Hard Drive Activity LED):

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

The front panel design may differ by chassis. A front panel module mainly consists of power button, reset button, 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.

Chassis Intrusion and Speaker Header (7-pin SPK_C11) (see p.6, No. 23)

Please connect the chassis intrusion and the chassis speaker to this header.



Serial ATA3 Connectors

Vertical:

(SATA3_0) (see p.6, No. 14)

(SATA3_1) (see p.6, No. 15)

(SATA3_2) (see p.6, No. 19)

(SATA3_3) (see p.6, No. 20)

Right Angle:

(SATA3_A1) (see p.6, No. 12) (Upper)

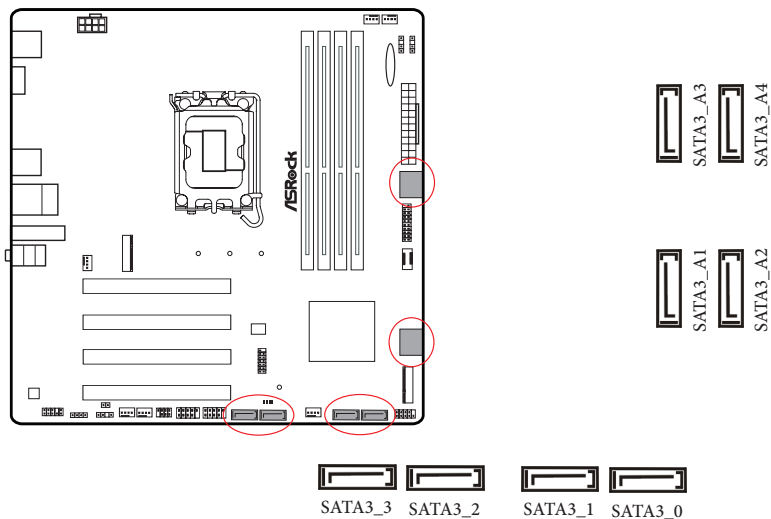
(SATA3_A2) (see p.6, No. 12) (Lower)

(SATA3_A3) (see p.6, No. 9) (Upper)

(SATA3_A4) (see p.6, No. 9) (Lower)

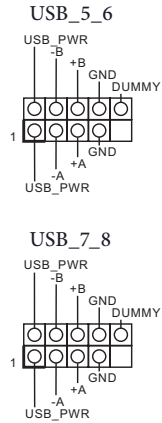
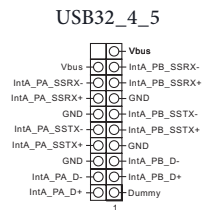
These eight SATA3 connectors support SATA data cables for internal storage devices with up to 6.0 Gb/s data transfer rate.

*To minimize the boot time, use Intel SATA ports (SATA3_0~3) for your SSDs.



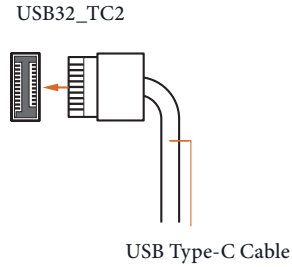
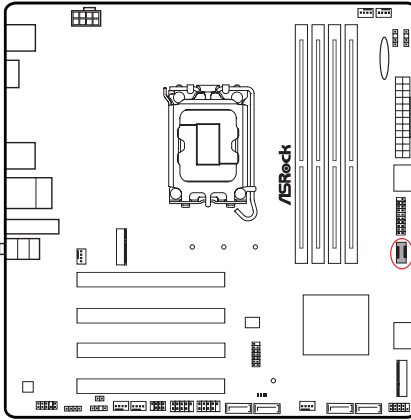
(9-pin USB_7_8) (see p.6, No. 21)

Figure 1: USB connector pin assignment. The diagram shows a top-down view of a PCB with a USB connector. Red arrows indicate the wiring for USB_5_6 and USB_7_8. The connector has pins labeled USB_PWR, -B, +B, GND, DUMMY, -A, +A, and GND. The USB_5_6 connector is connected to pins 1 and 2, and the USB_7_8 connector is connected to pins 3 and 4.

[illegible]

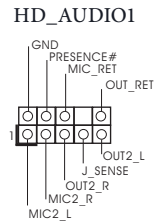
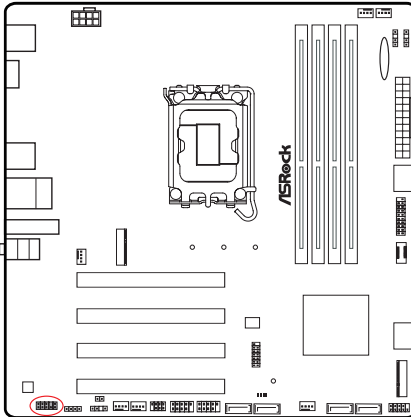
Front Panel Type C USB 3.2 Gen1 Header (20-pin USB32_TC2) (see p.6, No. 11)

There is one Front Panel Type C USB 3.2 Gen1 Header on this motherboard. This header is used for connecting a USB 3.2 Gen1 module for additional USB 3.2 Gen1 ports.



Front Panel Audio Header (9-pin HD_AUDIO1) (see p.6, No. 29)

This header is for connecting audio devices to the front audio panel.



High Definition Audio supports Jack Sensing, but the panel wire on the chassis must support HDA to function correctly. Please follow the instructions in our manual and chassis manual to install your system.

Chassis/Water Pump Fan Connectors

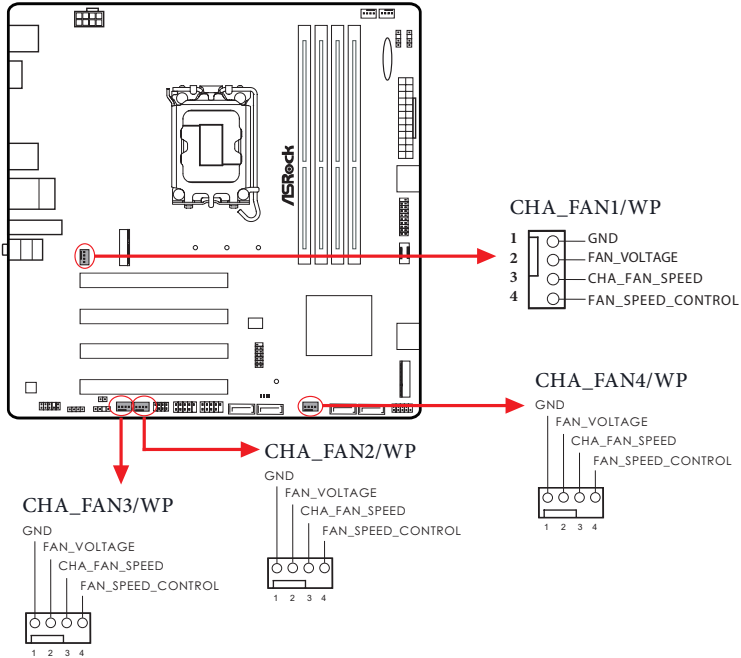
(4-pin CHA_FAN1/WP) (see p.6, No. 30)

(4-pin CHA_FAN2/WP) (see p.6, No. 24)

(4-pin CHA_FAN3/WP) (see p.6, No. 25)

(4-pin CHA_FAN4/WP) (see p.6, No. 16)

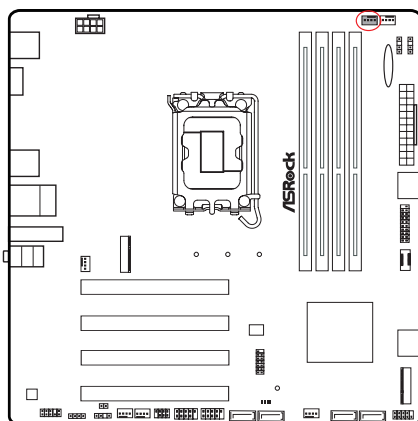
This motherboard provides four 4-Pin water cooling chassis fan connectors. If you plan to connect a 3-Pin chassis water cooler fan, please connect it to Pin 1-3.



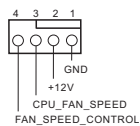
CPU Fan Connector

(4-pin CPU_FAN1) (see p.6, No. 4)

This motherboard provides a 4-Pin CPU fan (Quiet Fan) connector. If you plan to connect a 3-Pin CPU fan, please connect it to Pin 1-3.



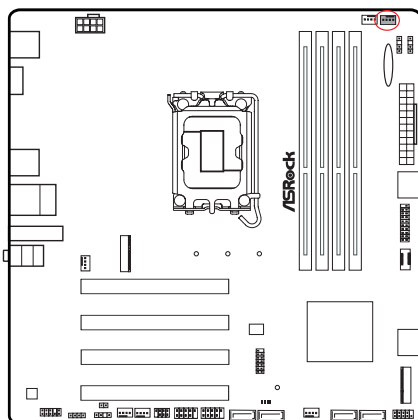
CPU_FAN1



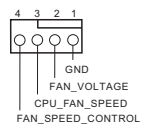
CPU/Water Pump Fan Connector

(4-pin CPU_FAN2/WP) (see p.6, No. 5)

This motherboard provides a 4-Pin water cooling CPU fan connector. If you plan to connect a 3-Pin CPU water cooler fan, please connect it to Pin 1-3.



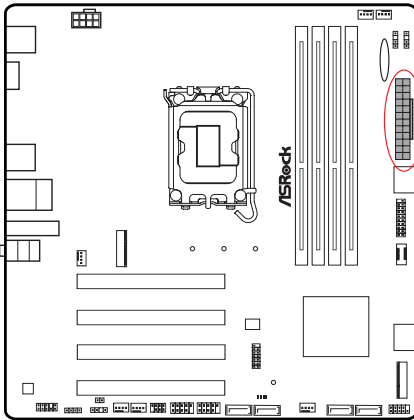
CPU_FAN2/WP



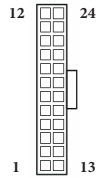
ATX Power Connector

(24-pin ATXPWR1) (see p.6, No. 8)

This motherboard provides a 24-pin ATX power connector. To use a 20-pin ATX power supply, please plug it along Pin 1 and Pin 13.



ATXPWR1

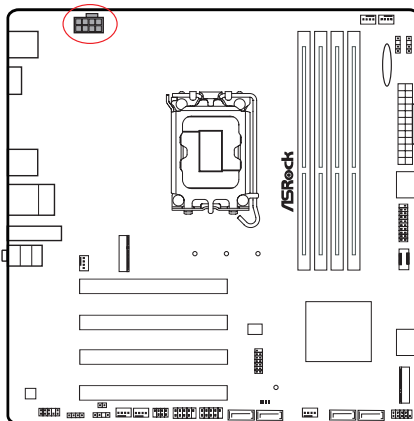


ATX 12V Power Connector

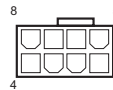
(8-pin ATX12V1) (see p.6, No. 1)

This motherboard provides a 8-pin ATX 12V power connector. To use a 4-pin ATX power supply, please plug it along Pin 1 and Pin 5.

***Warning:** Please make sure that the power cable connected is for the CPU and not the graphics card. Do not plug the PCIe power cable to this connector.



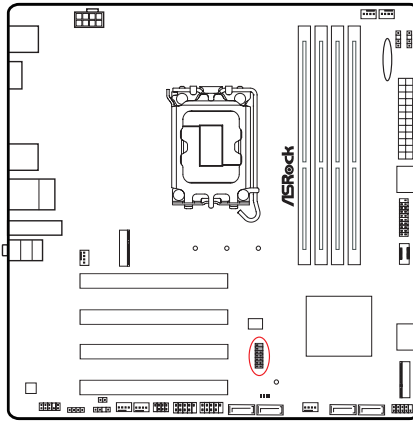
ATX12V1



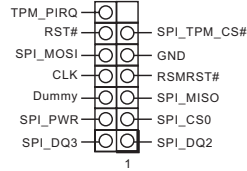
SPI TPM Header

(13-pin SPI_TPM_J1) (see p.6, No. 17)

This connector supports SPI Trusted Platform Module (TPM) system, which can securely store keys, digital certificates, passwords, and data. A TPM system also helps enhance network security, protects digital identities, and ensures platform integrity.



SPI_TPM_J1

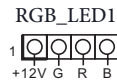
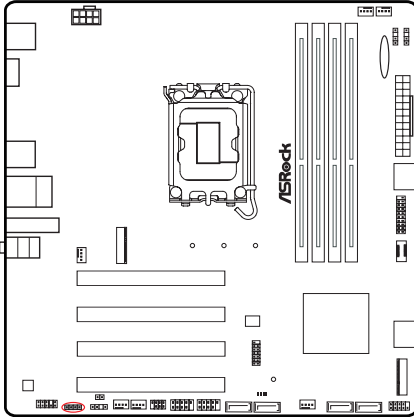


RGB LED Header

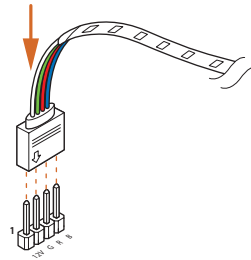
(4-pin RGB_LED1) (see p.6, No. 28)

This RGB header is used to connect RGB LED extension cable which allow users to choose from various LED lighting effects.

Caution: Never install the RGB LED cable in the wrong orientation; otherwise, the cable may be damaged.



Connect your RGB LED strip to the **RGB LED Header (RGB_LED1)** on the motherboard.



1. Never install the RGB LED cable in the wrong orientation; otherwise, the cable may be damaged.
2. Before installing or removing your RGB LED cable, please power off your system and unplug the power cord from the power supply. Failure to do so may cause damages to motherboard components.



1. Please note that the RGB LED strips do not come with the package.
2. The RGB LED header supports standard 5050 RGB LED strip (12V/G/R/B), with a maximum power rating of 3A (12V) and length within 2 meters.

Addressable LED Headers

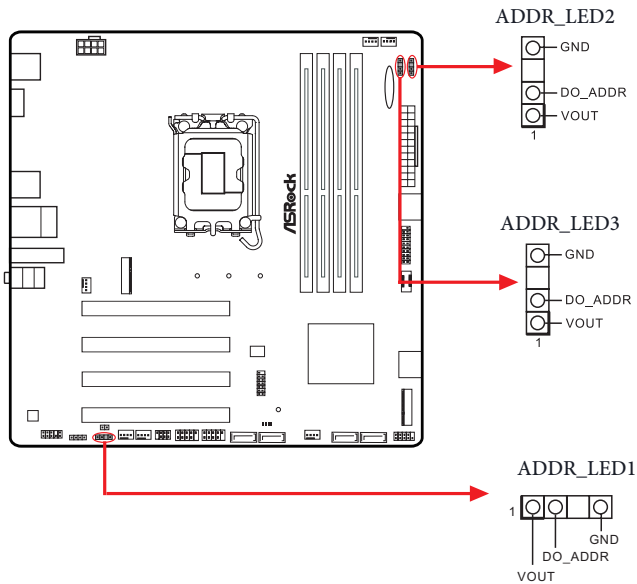
(3-pin ADDR_LED1) (see p.6, No. 26)

(3-pin ADDR_LED2) (see p.6, No. 7)

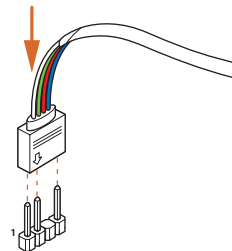
(3-pin ADDR_LED3) (see p.6, No. 6)

These headers are used to connect Addressable LED extension cables which allow users to choose from various LED lighting effects.

Caution: Never install the Addressable LED cable in the wrong orientation; otherwise, the cable may be damaged.



Connect your Addressable RGB LED strips to the Addressable LED Headers (ADDR_LED1 / ADDR_LED2 / ADDR_LED3) on the motherboard.





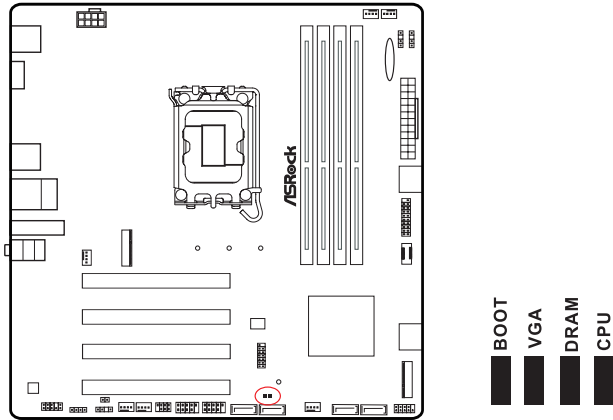
1. *Never install the Addressable LED cable in the wrong orientation; otherwise, the cable may be damaged.*
2. *Before installing or removing your Addressable LED cable, please power off your system and unplug the power cord from the power supply. Failure to do so may cause damages to motherboard components.*



1. *Please note that the Addressable LED strips do not come with the package.*
2. *The Addressable LED header supports WS2812B addressable RGB LED strip (5V/ Data/GND), with a maximum power rating of 3A (5V) and length within 2 meters.*

2.13 Post Status Checker

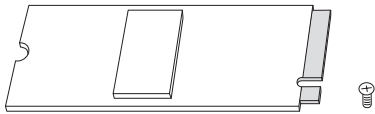
Post Status Checker (PSC) diagnoses the computer when users power on the machine. It emits a red light to indicate whether the CPU, memory, VGA or storage is dysfunctional. The lights go off if the four mentioned above are functioning normally.



2.14 M.2 SSD Module Installation Guide (M2_1)

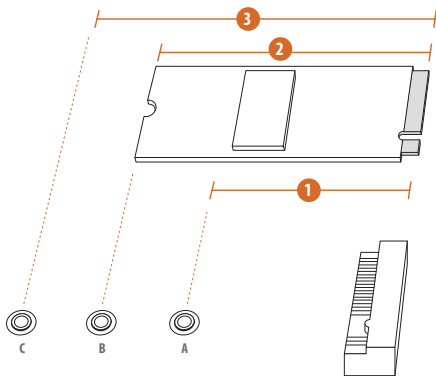
The M.2 is a small size and versatile card edge connector that aims to replace mPCIe and mSATA. The Hyper M.2 Socket (M2_1, Key M) supports type 2242/2260/2280 PCIe Gen4x4 (64 Gb/s) mode.

Installing the M.2 SSD Module



Step 1

Prepare a M.2 SSD module and the screw.



Step 2

Depending on the PCB type and length of your M.2 SSD module, find the corresponding nut location to be used.

No.	1	2	3
Nut Location	A	B	C
PCB Length	4.2cm	6cm	8cm
Module Type	Type 2242	Type 2260	Type 2280



Step 3

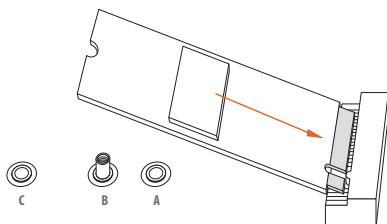
Move the standoff based on the module type and length.

The standoff is placed at the nut location C by default. Skip Step 3 and 4 and go straight to Step 5 if you are going to use the default nut. Otherwise, release the standoff by hand.



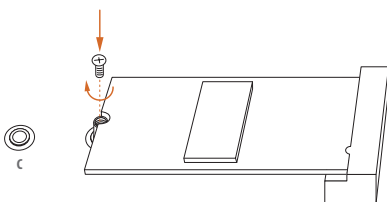
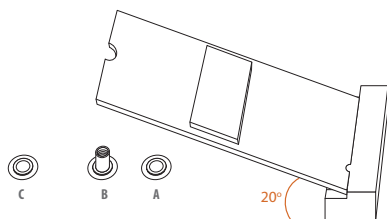
Step 4

Peel off the yellow protective film on the nut to be used. Hand tighten the standoff into the desired nut location on the motherboard.



Step 5

Align and gently insert the M.2 SSD module into the M.2 slot. Please be aware that the M.2 SSD module only fits in one orientation.



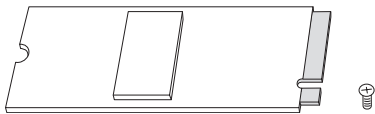
Step 6

Tighten the screw with a screwdriver to secure the module into place. Please do not overtighten the screw as this might damage the module.

2.15 M.2 SSD Module Installation Guide (M2_2)

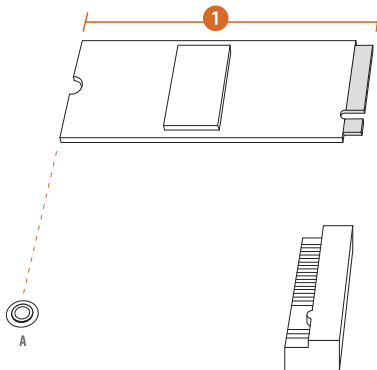
The M.2 is a small size and versatile card edge connector that aims to replace mPCIe and mSATA. The Hyper M.2 Sockets (M2_2, Key M) supports type 2280 PCIe Gen4x4 (64 Gb/s) mode

Installing the M.2 SSD Module



Step 1

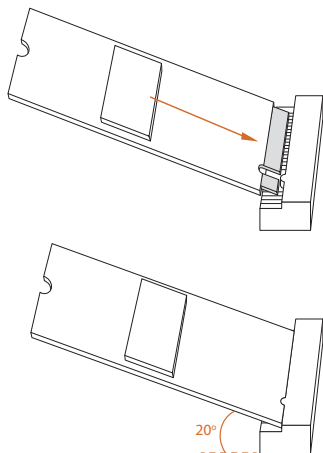
Prepare a M.2 SSD module and the screw.



Step 2

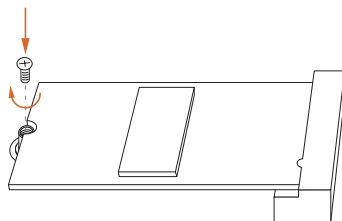
Depending on the PCB type and length of your M.2 SSD module, find the corresponding nut location to be used.

No.	1
Nut Location	A
PCB Length	8cm
Module Type	Type 2280



Step 3

Align and gently insert the M.2 SSD module into the M.2 slot. Please be aware that the M.2 SSD module only fits in one orientation.



Step 4

Tighten the screw with a screwdriver to secure the module into place. Please do not overtighten the screw as this might damage the module.

For the latest updates of M.2 SSD module support list, please visit our website for details:
<http://www.asrock.com>

Version 1.0

Published April 2024

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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WARNING



THIS PRODUCT CONTAINS A BUTTOON BATTERY
If swallowed, a button battery can cause serious injury or death.
Please keep batteries out of sight or reach of children.

! WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH of CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Battery type: CR2032
- Battery voltage: 3V
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- This product contains an irreplaceable battery.
- This icon indicates that a swallowed button battery can cause serious injury or death. Please keep batteries out of sight or reach of children.

CALIFORNIA, USA ONLY

The Lithium battery adopted on this motherboard contains Perchlorate, a toxic substance controlled in Perchlorate Best Management Practices (BMP) regulations passed by the California Legislature. When you discard the Lithium battery in California, USA, please follow the related regulations in advance.

“Perchlorate Material-special handling may apply, see www.dtsc.ca.gov/hazardouswaste/perchlorate”

AUSTRALIA ONLY

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage caused by our goods. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. If you require assistance please call ASRock Tel : +886-2-28965588 ext.123 (Standard International call charges apply)



ASRock INC. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of related UKCA Directives. Full text of UKCA declaration of conformity is available at: <http://www.asrock.com>



ASRock INC. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of related Directives. Full text of EU declaration of conformity is available at: <http://www.asrock.com>

ASRock follows the green design concept to design and manufacture our products, and makes sure that each stage of the product life cycle of ASRock product is in line with global environmental regulations. In addition, ASRock disclose the relevant information based on regulation requirements.

Please refer to <https://www.asrock.com/general/about.asp?cat=Responsibility> for information disclosure based on regulation requirements ASRock is complied with.



DO NOT throw the motherboard in municipal waste. This product has been designed to enable proper reuse of parts and recycling. This symbol of the crossed out wheeled bin indicates that the product (electrical and electronic equipment) should not be placed in municipal waste. Check local regulations for disposal of electronic products.

B760M-C / B760M-CW:

Operations in the 5.15-5.35GHz band are restricted to indoor usage only.

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



Radio transmit power per transceiver type

Function	Frequency	Maximum Output Power (EIRP)
WiFi	2400-2483.5 MHz	18.5 + / -1.5 dbm
	5150-5250 MHz	21.5 + / -1.5 dbm
	5250-5350 MHz	18.5 + / -1.5 dbm (no TPC) 21.5 + / -1.5 dbm (TPC)
	5470-5725 MHz	25.5 + / -1.5 dbm (no TPC) 28.5 + / -1.5 dbm (TPC)
Bluetooth	2400-2483.5 MHz	8.5 + / -1.5 dbm

ASRock Incorporation Contains Wi-Fi module with Bluetooth Intel® Wi-Fi 3168 Model: 3168NGW FCC ID: PD93168NG IC: 1000M-3168NG   003-160024  D160013003  CCAH17LP2970T4 5.15~5.35GHz indoor use only	ASRock Incorporation Contains Wi-Fi module with Bluetooth Intel® Wi-Fi 9462 Model: 9462NGW FCC ID: PD99462NG IC: 1000M-9462NG   003-170245  D170151003  CCAH17LP4350T0 5.15~5.35GHz indoor use only
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ASRock Incorporation

Contains Wi-Fi 5 module with Bluetooth

AZUREWAVE WiFi 5 AW-CB515NF

Model: AW-CB515NF

FCC ID: TX2-RTL8821CE



IC: 6317A-RTL8821CE



[R] 201-163 301

[T] D16-0283 201



CCAF16LP2410T3

5.15~5.35GHz indoor use only

B760M-CX:

Operations in the 5.15-5.35/6GHz band are restricted to indoor usage only.

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



Radio transmit power per transceiver type

Function	Frequency	Maximum Output Power (EIRP)
WiFi	2400-2483.5 MHz	18.5 + / -1.5 dbm
	5150-5250 MHz	21.5 + / -1.5 dbm
	5250-5350 MHz	18.5 + / -1.5 dbm (no TPC)
		21.5 + / -1.5 dbm (TPC)
	5470-5725 MHz	25.5 + / -1.5 dbm (no TPC)
		28.5 + / -1.5 dbm (TPC)
Bluetooth	5725-5850 MHz	11 + / -1.5 dbm
	5945-6425 MHz	21 + / -1.5 dbm
	2400-2483.5 MHz	8.5 + / -1.5 dbm

ASRock Incorporation Contains Wi-Fi 6E module with Bluetooth AMD® Wi-Fi 6E RZ608 Model: MT7921K FCC ID: RAS-MT7921K IC: 7542A-MT7921K  [R] 020-200172  CCAI20LP2410T7 5.15~5.35GHz indoor use only	ASRock Incorporation Contains Wi-Fi 6E module with Bluetooth AMD® Wi-Fi 6E RZ616 Model: MT7922A22M FCC ID: RAS-MT7922A22M IC: 7542A-MT7922A22M  [R] 020-220194  [T] D220055020 5.15~5.35/6GHz indoor use only
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