ASRock

H610M-HDV/M.2 D5 Gen5
H610M-HVS/M.2 D5 Gen5

User Manual

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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H610M-HVS/M.2 D5 Gen5

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Chapter 1 Introduction

Thank you for purchasing ASRock H610M-HDV/M.2 D5 Gen5 / H610M-HVS/M.2 D5 Gen5 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 H610M-HDV/M.2 D5 Gen5 / H610M-HVS/M.2 D5 Gen5 Motherboard (Micro ATX Form Factor)
- 1 x I/O Shield (Optional)
- 2 x Serial ATA (SATA) Data Cables (Optional)
- 1 x Screw for M.2 Socket (Optional)

1.2 Specifications

Platform	• Micro ATX Form Factor • Solid Capacitor design
CPU	• Supports 14th, 13th & 12th Gen Intel® Core™ Processors (LGA1700) • Supports Intel® Hybrid Technology • Supports Intel® Turbo Boost Max 3.0 Technology
Chipset	• Intel® H610
Memory	• Dual Channel DDR5 Memory Technology • 2 x DDR5 DIMM Slots • 14th and 13th Gen Intel® Core™ Processors support DDR5 non-ECC, un-buffered memory up to 5600* • 12th Gen Intel® Core™ Processors support DDR5 non-ECC, un-buffered memory up to 4800* • Max. capacity of system memory: 128GB • Supports Intel® Extreme Memory Profile (XMP) 3.0 * Actual support may vary by CPU * 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 3.0 x1 Slot (PCIE2)* * 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® Xe Graphics Architecture (Gen 12) • 1 x DisplayPort 1.4 with DSC (compressed), supports HDCP 2.3 and max. resolution up to 8K 60Hz / 5K 120Hz (H610M-HDV/M.2 D5 Gen5 only) • 1 x HDMI 2.1 TMDS Compatible, supports HDCP 2.3 and max. resolution up to 4K 60Hz

	• 1 x D-Sub, supports max. resolution up to Full HD (1920x1080) 60Hz
Audio	• 7.1 CH HD Audio (Realtek ALC897 Audio Codec)
LAN	• Gigabit LAN 10/100/1000 Mb/s • Realtek 8111H
USB	Chipset: • 4 x USB 3.2 Gen1 (2 Rear, 2 Front) • 6 x USB 2.0 (4 Rear, 2 Front) * All USB ports support ESD Protection
Rear Panel I/O	• 1 x PS/2 Mouse/Keyboard Port • 1 x D-Sub Port • 1 x HDMI Port • 1 x DisplayPort 1.4 (H610M-HDV/M.2 D5 Gen5 only) • 2 x USB 3.2 Gen1 Ports • 4 x USB 2.0 Ports • 1 x RJ-45 LAN Port • HD Audio Jacks: Line in / Front Speaker / Microphone
Storage	Chipset: • 1 x Ultra M.2 Socket (M2_1, Key M), supports type 2280 PCIe Gen3x4 (32 Gb/s) mode* • 4 x SATA3 6.0 Gb/s Connectors * Supports NVMe SSD as boot disks
Connector	• 1 x SPI TPM Header • 1 x Chassis Intrusion and Speaker Header • 1 x CPU Fan Connector (4-pin) (Smart Fan Speed Control)* • 1 x Chassis/Water Pump Fan Connector (4-pin) (Smart Fan Speed Control)** • 1 x 24 pin ATX Power Connector • 1 x 8 pin 12V Power Connector • 1 x Front Panel Audio Connector • 1 x USB 2.0 Header (Supports 2 USB 2.0 ports) • 1 x USB 3.2 Gen1 Header (Supports 2 USB 3.2 Gen1 ports)

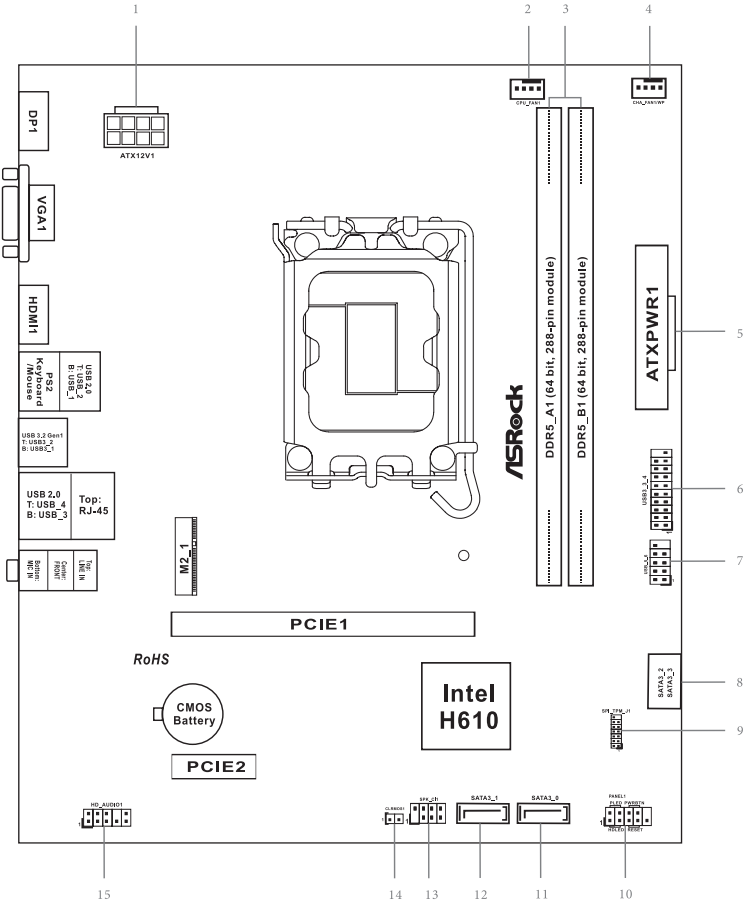
	* CPU_FAN1 supports the fan power up to 1A (12W). ** CHA_FAN1/WP supports the fan power up to 2A (24W). ** CHA_FAN1/WP can auto detect if 3-pin or 4-pin fan is in use.
BIOS Feature	• AMI UEFI Legal BIOS with GUI support
OS	• Microsoft® Windows® 10 64-bit / 11 64-bit
Certifications	• FCC, CE • ErP/EuP ready (ErP/EuP ready power supply is required)

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

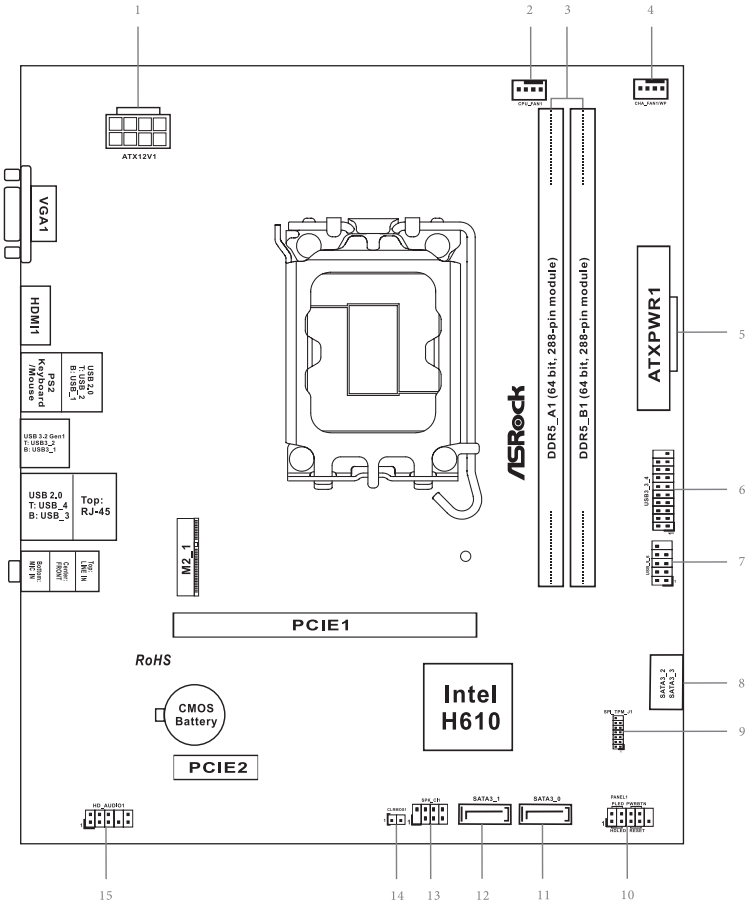
Please realize that there is a certain risk involved with overclocking, including adjusting the setting in the BIOS, applying Untied Overclocking Technology, or using third-party overclocking tools. Overclocking may affect your system's stability, or even cause damage to the components and devices of 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

H610M-HDV/M.2 D5 Gen5:



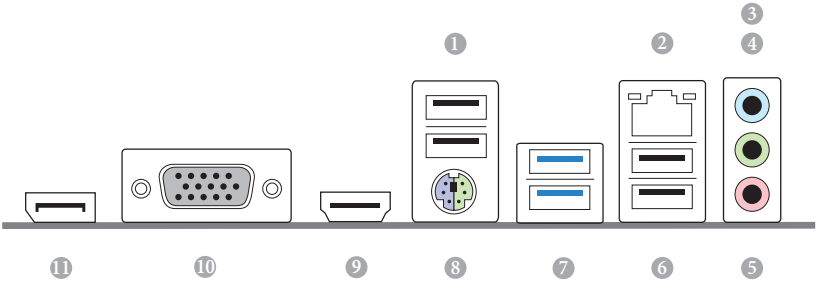
H610M-HVS/M.2 D5 Gen5:



No.	Description
1	ATX 12V Power Connector (ATX12V1)
2	CPU Fan Connector (CPU_FAN1)
3	2 x 288-pin DDR5 DIMM Slots (DDR5_A1, DDR5_B1)
4	Chassis/Water Pump Fan Connector (CHA_FAN1/WP)
5	ATX Power Connector (ATXPWR1)
6	USB 3.2 Gen1 Header (USB3_3_4)
7	USB 2.0 Header (USB_5_6)
8	SATA3 Connector (SATA3_2) (Upper), SATA3 Connector (SATA3_3) (Lower)
9	SPI TPM Header (SPI_TPM_J1)
10	System Panel Header (PANEL1)
11	SATA3 Connector (SATA3_0)
12	SATA3 Connector (SATA3_1)
13	Chassis Intrusion and Speaker Header (SPK_CI1)
14	Clear CMOS Jumper (CLRMOS1)
15	Front Panel Audio Header (HD_AUDIO1)

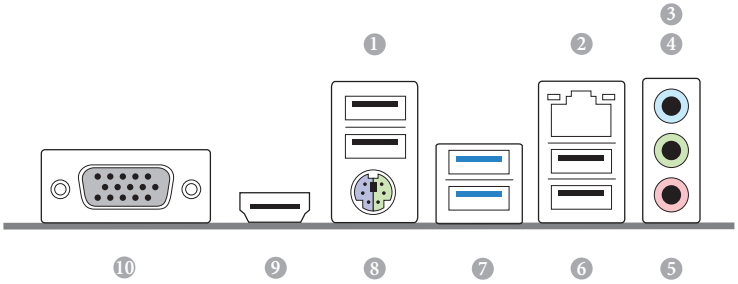
1.4 I/O Panel

H610M-HDV/M.2 D5 Gen5:



No.	Description	No.	Description
1	USB 2.0 Ports (USB_1_2)	7	USB 3.2 Gen1 Type-A Ports (USB3_1_2)
2	LAN RJ-45 Port*	8	PS/2 Mouse/Keyboard Port
3	Line In (Light Blue)**	9	HDMI Port
4	Front Speaker (Lime)**	10	D-Sub Port
5	Microphone (Pink)**	11	DisplayPort 1.4
6	USB 2.0 Ports (USB_3_4)		

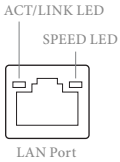
H610M-HVS/M.2 D5 Gen5:



No.	Description	No.	Description
1	USB 2.0 Ports (USB_1_2)	6	USB 2.0 Ports (USB_3_4)
2	LAN RJ-45 Port*	7	USB 3.2 Gen1 Type-A Ports (USB3_1_2)
3	Line In (Light Blue)**	8	PS/2 Mouse/Keyboard Port
4	Front Speaker (Lime)**	9	HDMI Port
5	Microphone (Pink)**	10	D-Sub Port

English

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



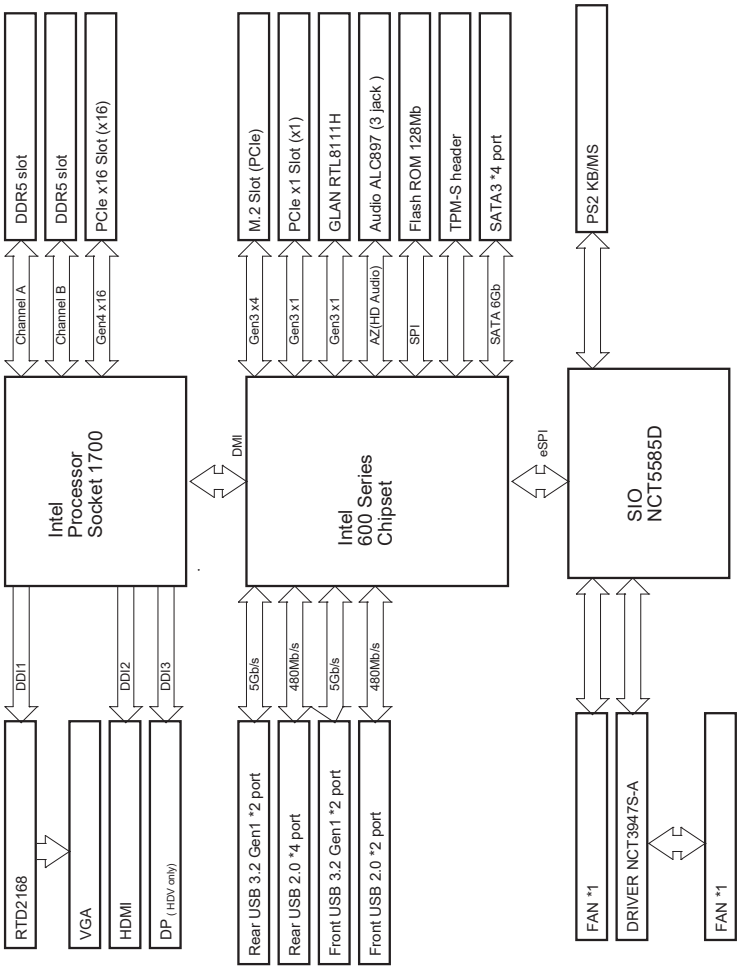
Activity / Link LED		Speed LED	
Status	**Description**	**Status**	**Description**
Off	No Link	Off	10Mbps connection
Blinking	Data Activity	Orange	100Mbps connection
On	Link	Green	1Gbps connection

*** **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

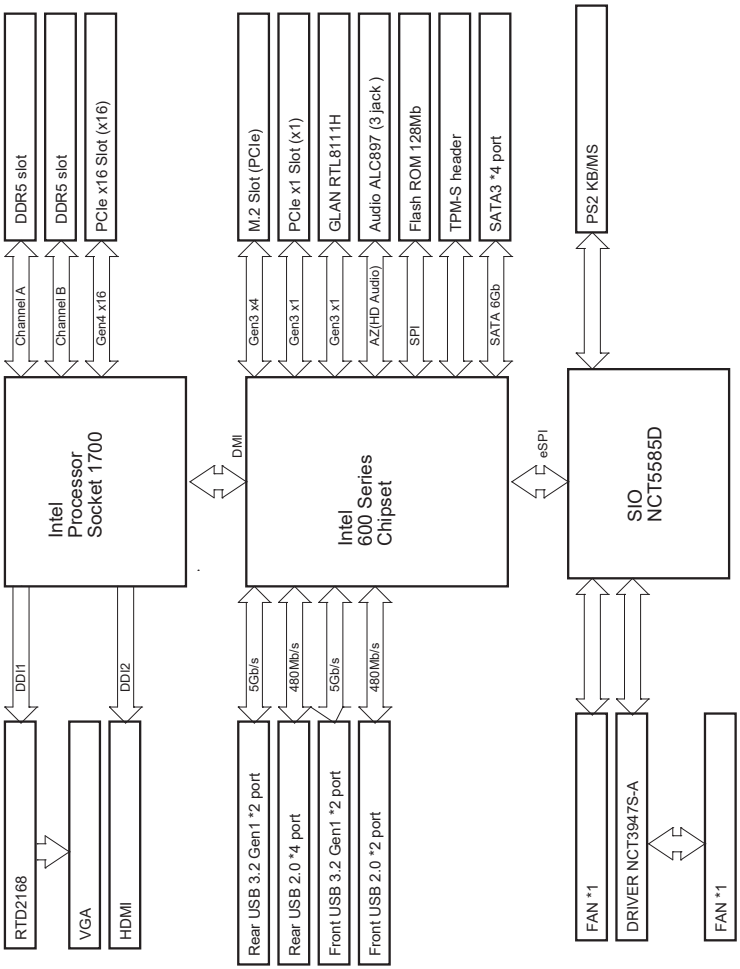
1.5 Block Diagram

H610M-HDV/M.2 D5 Gen5:



English

H610M-HVS/M.2 D5 Gen5:



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.

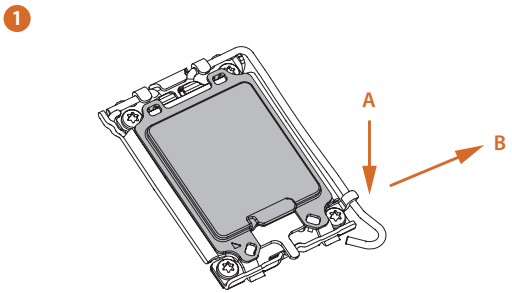
Pre-installation Precautions

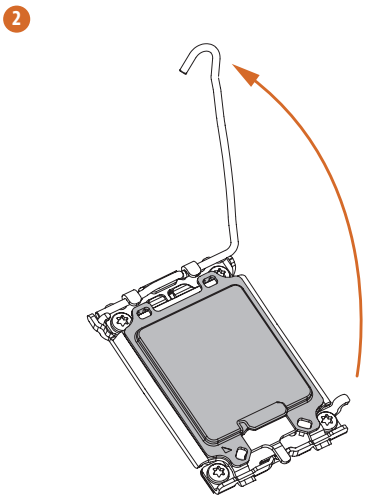
Take note of the following precautions before you install motherboard components or change any motherboard settings.

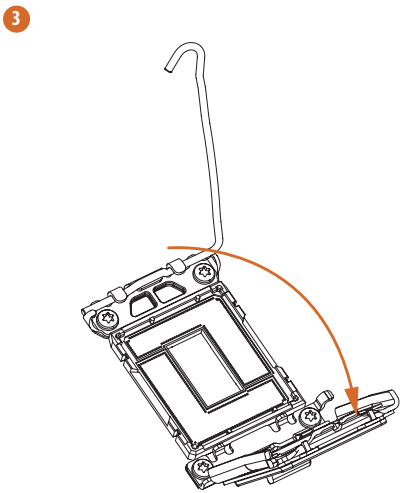
- Make sure to unplug the power cord before installing or removing the motherboard components. Failure to do so may cause physical injuries and damages to motherboard components.
- In order to avoid damage from static electricity to the motherboard's components, NEVER place your motherboard directly 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.

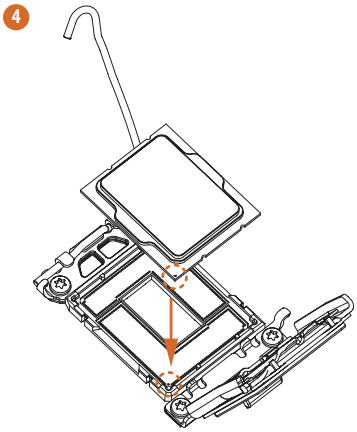
2.1 Installing the CPU

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.*





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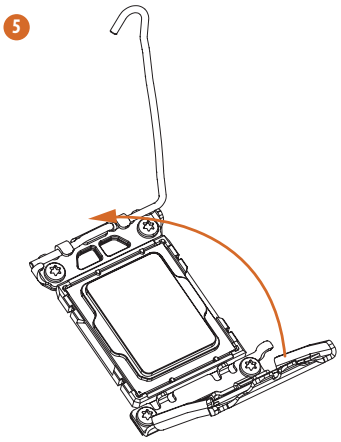
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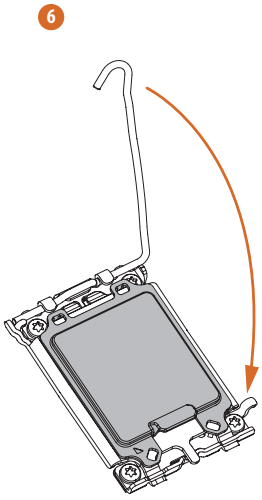
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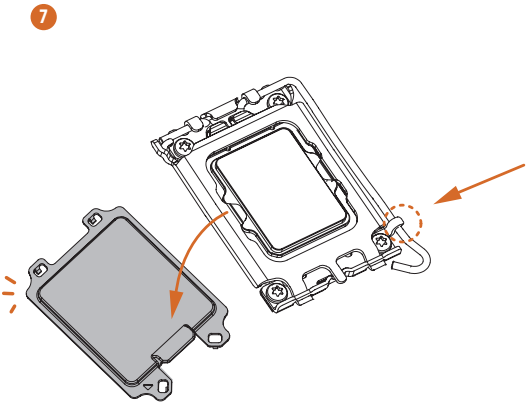
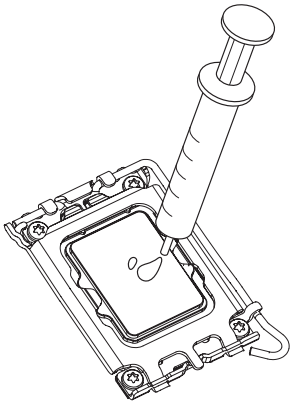

7

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



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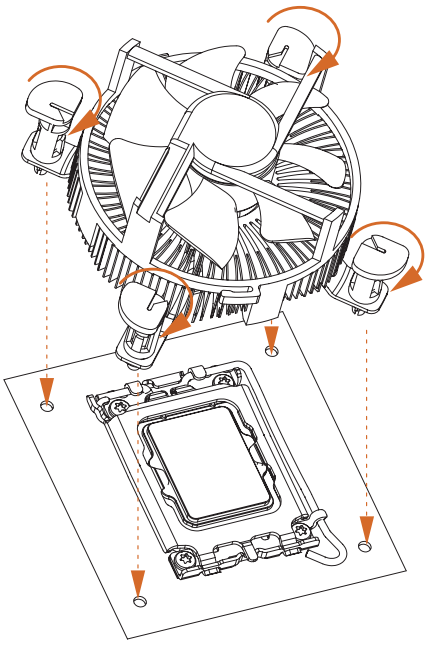

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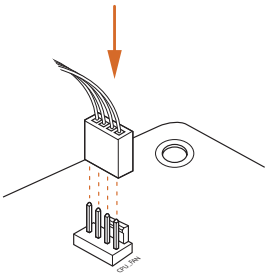
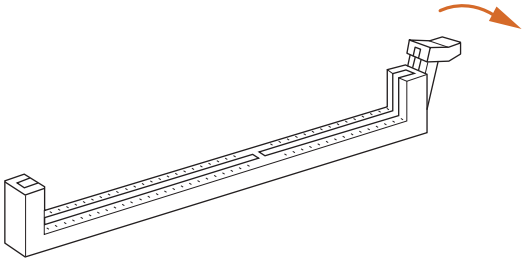


2.3 Installing Memory Modules (DIMM)

This motherboard provides two 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 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.*

1



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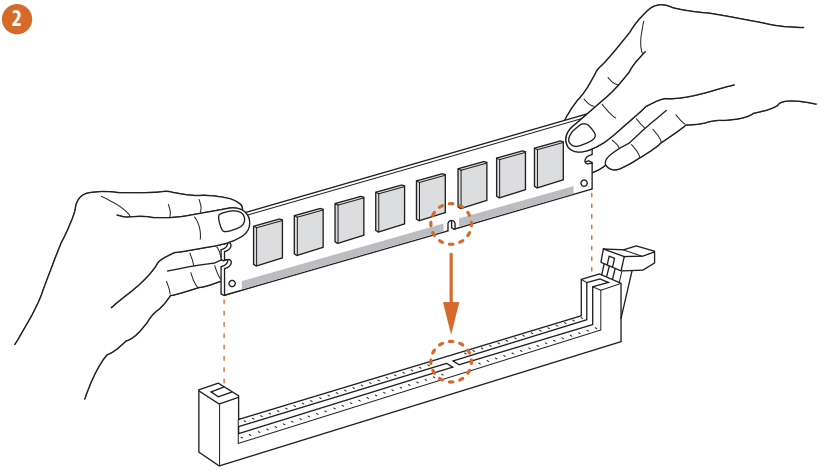

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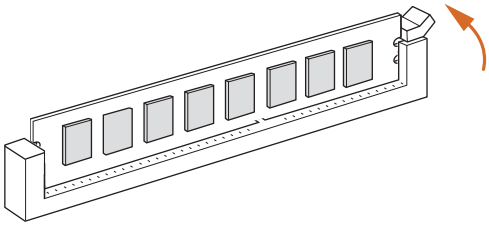
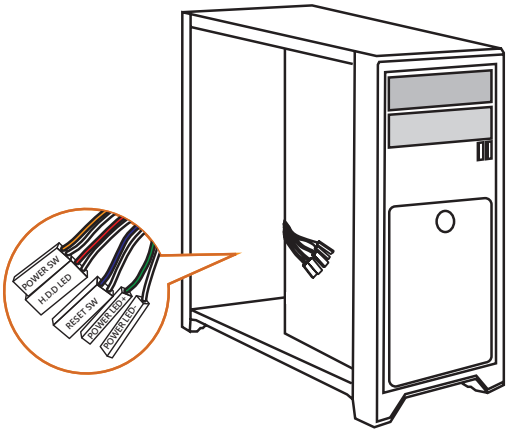


2.4 Connecting the Front Panel Header

1



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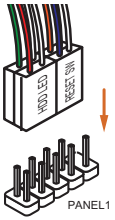
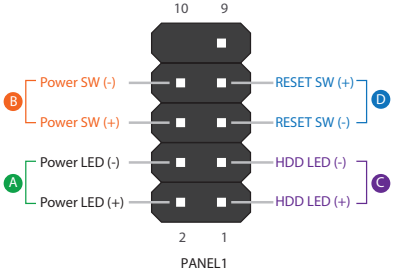
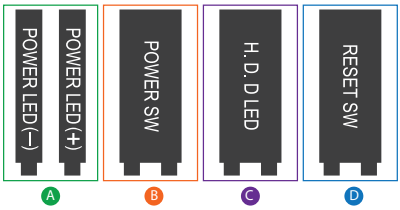


System Panel Header

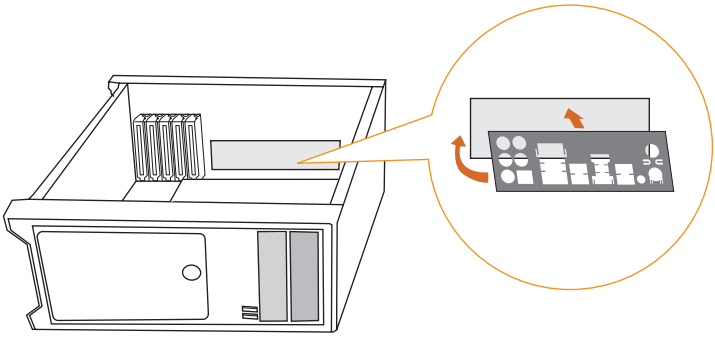


Front Panel Wires

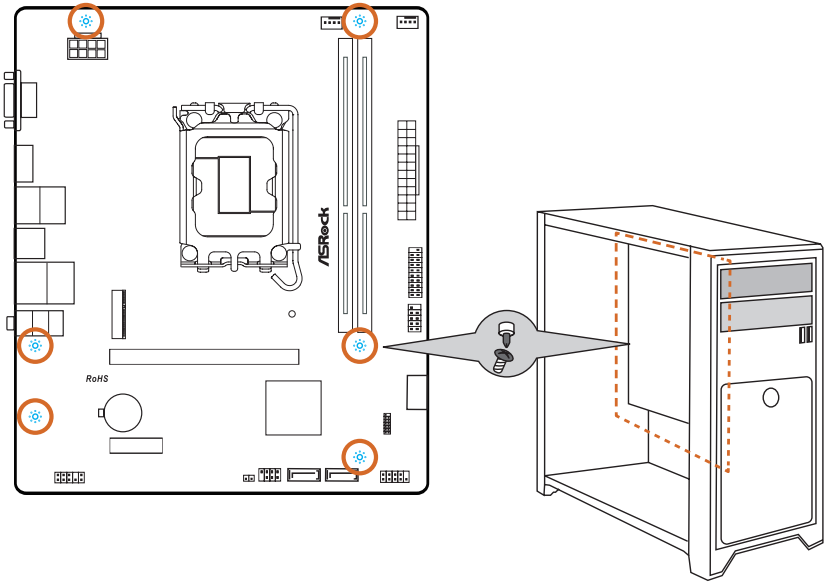


English

2.5 Installing the I/O Panel Shield



2.6 Installing the Motherboard



2.7 Installing SATA Drives

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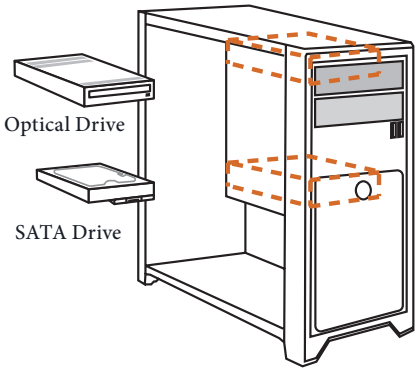

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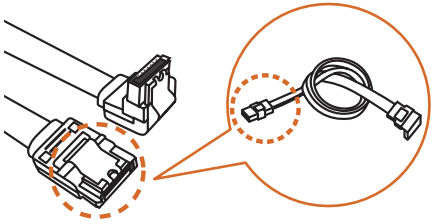
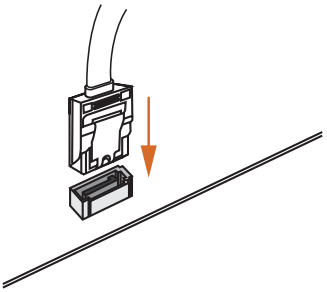


SATA Data Cable

3



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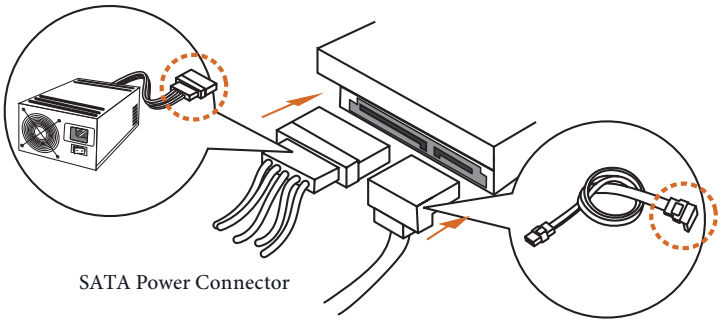
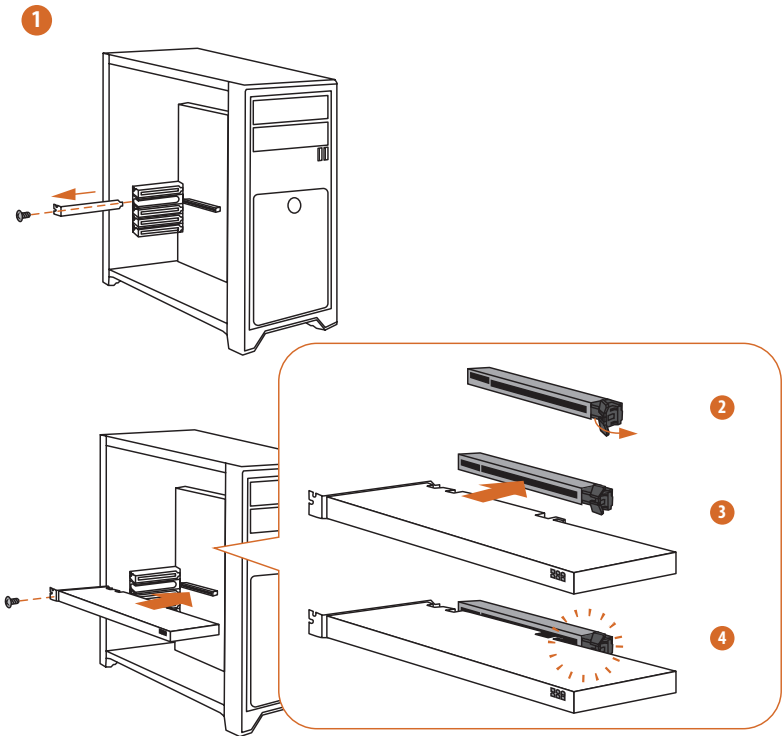


2.8 Installing a Graphics Card



Expansion Slots (PCIe Slots)

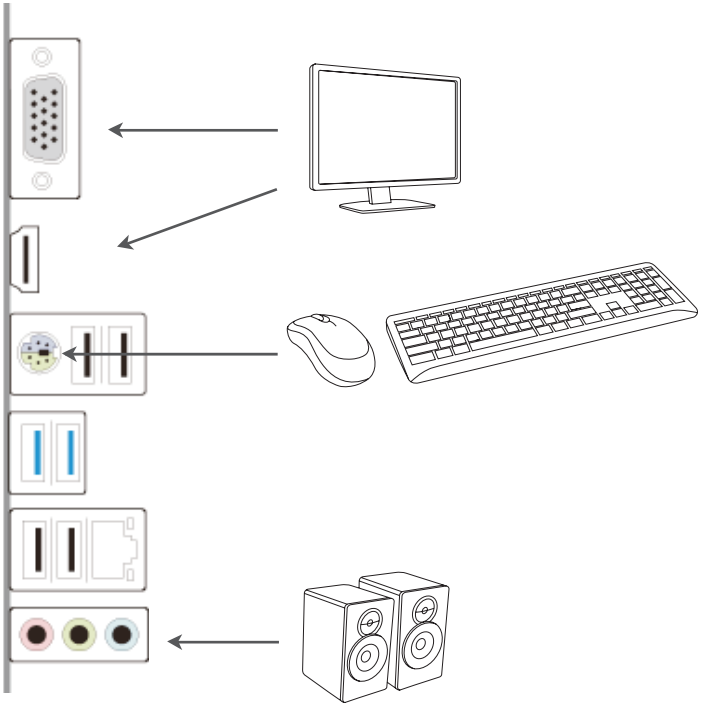
There are 2 PCI Express slots on the motherboard.

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.

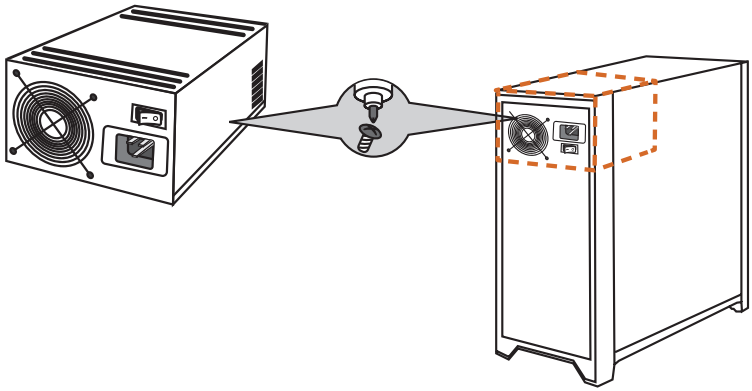
PCIe slots:

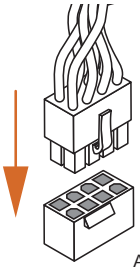
PCIE1 (PCIe 5.0 x16 slot) is used for PCIe x16 lane width graphics cards.
PCIE2 (PCIe 3.0 x1 slot) is used for PCIe x1 lane width cards.

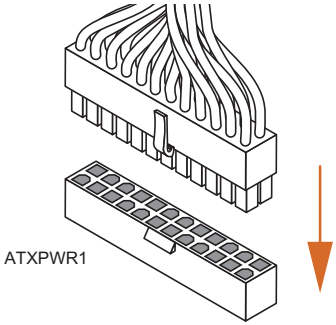
2.9 Connecting Peripheral Devices



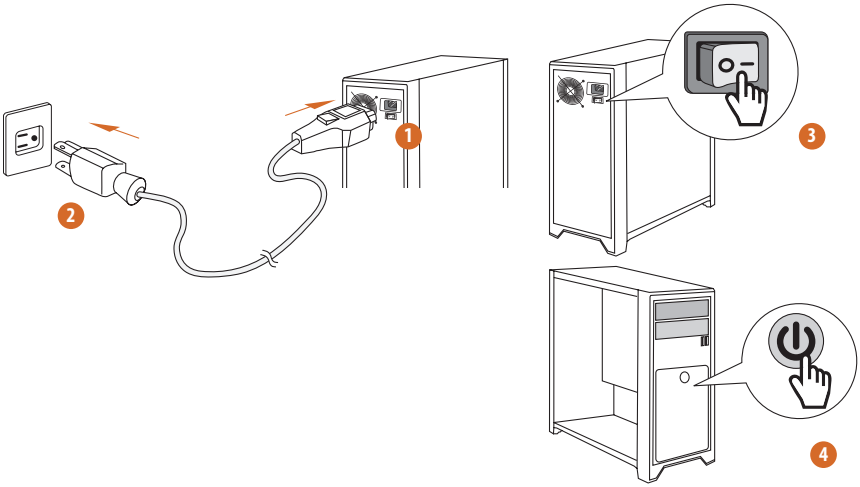
2.10 Connecting the Power Connectors





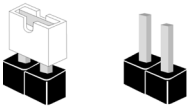


2.11 Power On



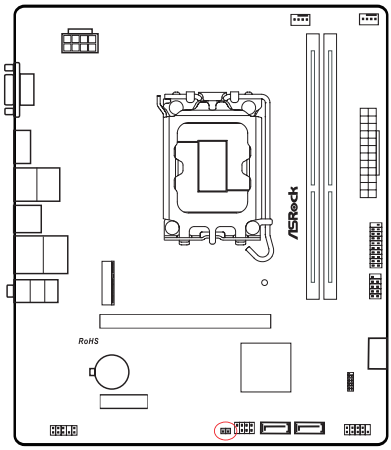
2.12 Jumpers Setup

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
(CLRMOS1) (see p.5, 6, No. 14)

CLRMOS1 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 CLRMOS1 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.



CLRMOS1

2-pin Jumper

Short: Clear CMOS
Open: Default

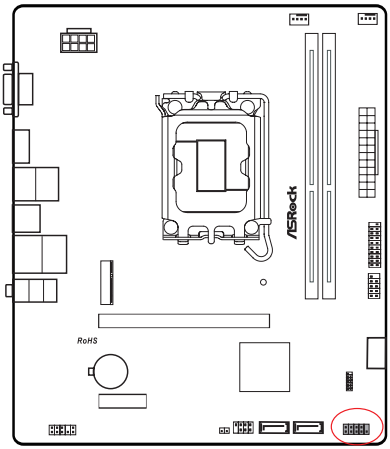
English

2.13 Onboard Headers and Connectors

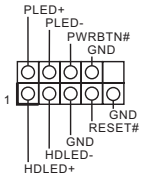
Onboard headers and connectors are NOT jumpers. Do NOT place jumper caps over these headers and connectors. Placing jumper caps over the headers and connectors will cause permanent damage to the motherboard.

System Panel Header
(9-pin PANEL1) (see p.5, 6, No. 10)

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.

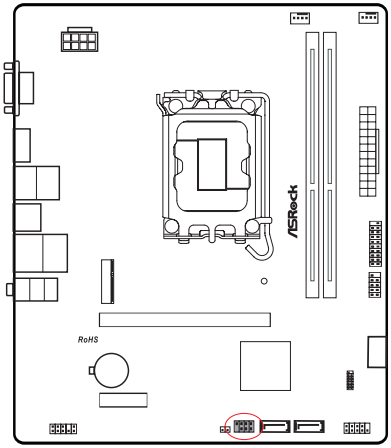
PLED (System Power LED):
Connect to the power status indicator on the chassis front panel. The LED is on when the system is operating. The LED keeps blinking when the system is in S1/S3 sleep state. The LED is off when the system is in S4 sleep state or powered off (S5).

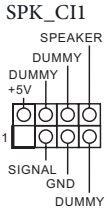
HDLED (Hard Drive Activity LED):
Connect to the hard drive activity LED on the chassis front panel. The LED is on when the hard drive is reading or writing data.

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_CI1) (see p.5, 6, No. 13)

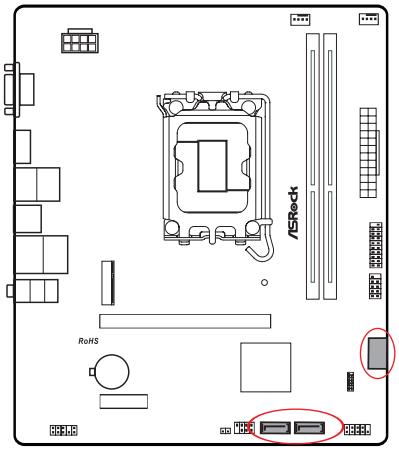
Please connect the chassis intrusion and the chassis speaker to this header.

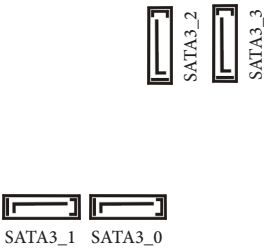




Serial ATA3 Connectors
Vertical:
(SATA3_0) (see p.5, 6, No. 11)
(SATA3_1) (see p.5, 6, No. 12)
Right Angle:
(SATA3_2) (see p.5, 6, No. 8) (Upper)
(SATA3_3) (see p.5, 6, No. 8) (Lower)

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

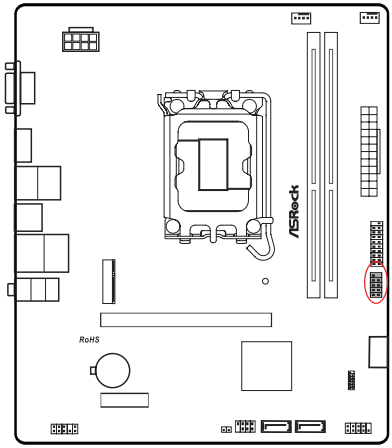




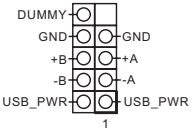
USB 2.0 Header

(9-pin USB_5_6) (see p.5, 6, No. 7)

There is one header on this motherboard. This USB 2.0 header can support two ports.



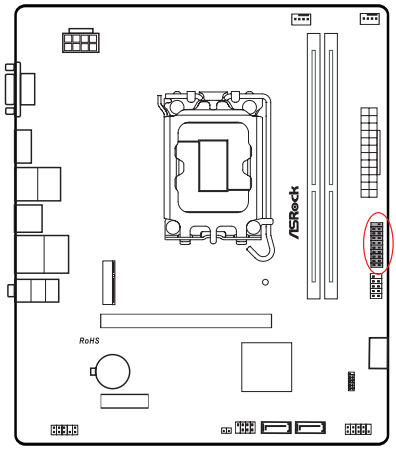
USB_5_6



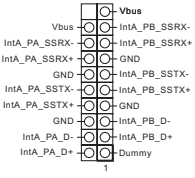
USB 3.2 Gen1 Header

(19-pin USB3_3_4) (see p.5, 6, No. 6)

There is one header on this motherboard. This USB 3.2 Gen1 header can support two ports.



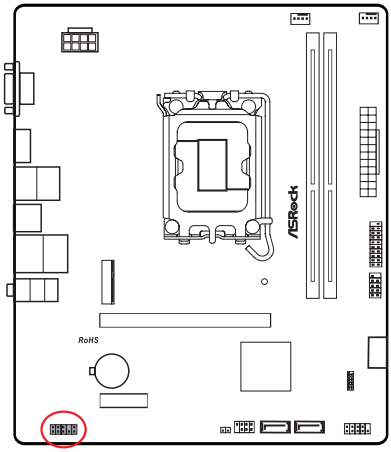
USB3_3_4



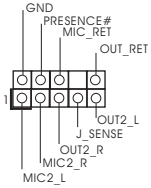
English

Front Panel Audio Header
(9-pin HD_AUDIO1) (see p.5, 6, No. 15)

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



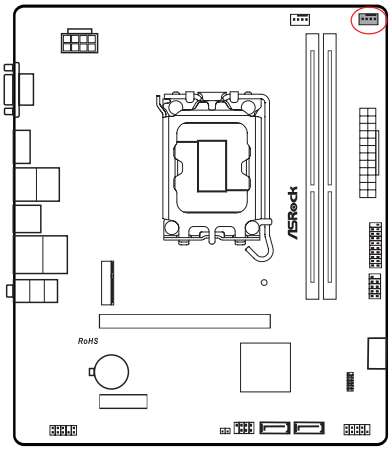
HD_AUDIO1



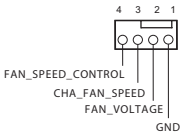
High Definition Audio supports Jack Sensing, but the panel wire on the chassis must support HDA to function correctly. Please follow the instructions in our manual and chassis manual to install your system.

Chassis/Water Pump Fan Connector
(4-pin CHA_FAN1/WP) (see p.5, 6, No. 4)

This header allows you to connect Case or Radiator fan. If you plan to connect a 3-pin fan, please connect it to Pin 1-3.



CHA_FAN1/WP

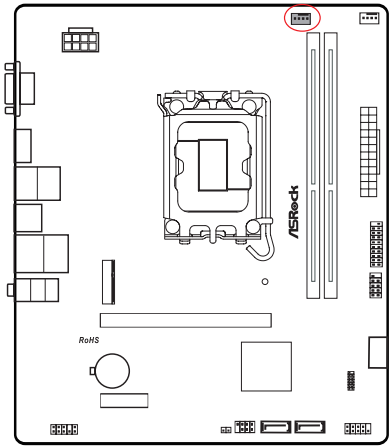


English

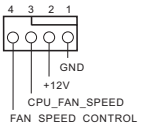
CPU Fan Connector

(4-pin CPU_FAN1) (see p.5, 6, No. 2)

This header allows you to connect CPU fan. If you plan to connect a 3-pin fan, please connect it to Pin 1-3.



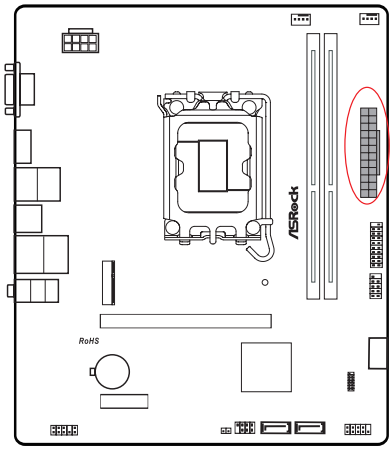
CPU_FAN1



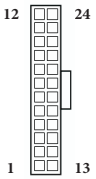
ATX Power Connector

(24-pin ATXPWR1) (see p.5, 6, No. 5)

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

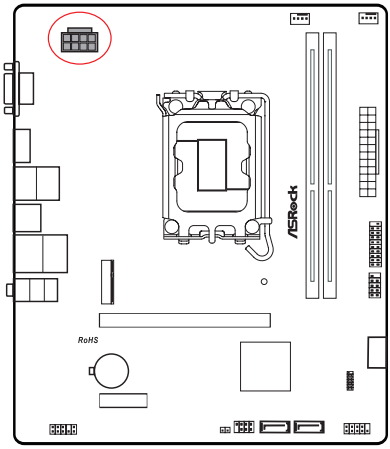


English

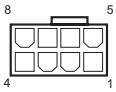
ATX 12V Power Connector
(8-pin ATX12V1) (see p.5, 6, No. 1)

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.**

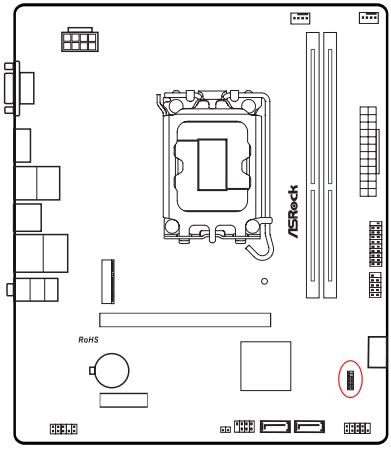


ATX12V1

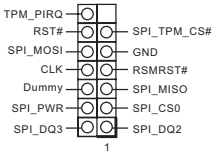


SPI TPM Header
(13-pin SPI_TPM_J1) (see p.5, 6, No. 9)

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.



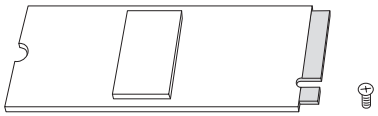
SPI_TPM_J1



2.14 M.2 SSD Module Installation Guide (M2_1)

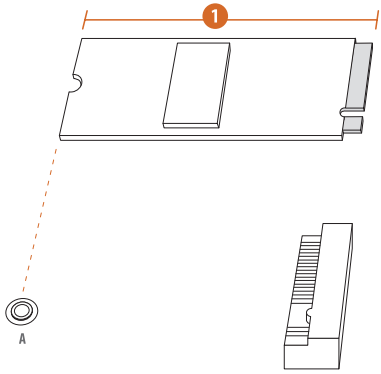
The M.2 is a small size and versatile card edge connector that aims to replace mPCIe and mSATA. The Ultra M.2 Socket (M2_1, Key M) supports type 2280 PCIe Gen3x4 (32 Gb/s) modes.

Installing the M.2 SSD



Step 1

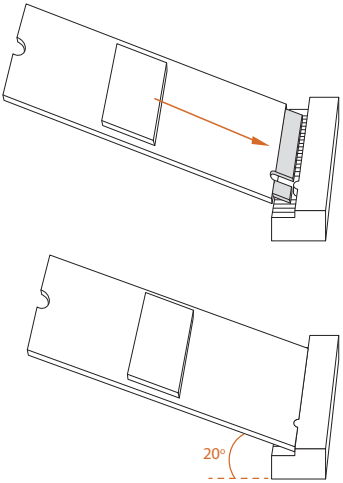
Prepare a M.2 SSD and the screw.



Step 2

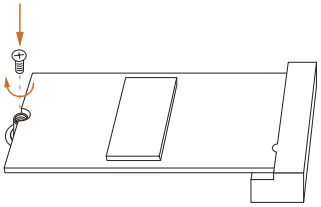
Depending on the PCB type and length of your M.2 SSD, find the corresponding nut location to be used.

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



Step 3

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



Step 4

Tighten the screw with a screwdriver to secure the M.2 SSD into place. Please do not overtighten the screw as this might damage the M.2 SSD.

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

Version 1.0
Published September 2025

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Licensee's specific rights may vary from country to country.

FCC Compliance Statement

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.

Button Battery Safety Notice

⚠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"

CALIFORNIA, USA ONLY

WARNING: Risk of cancer and reproductive harm from exposure to Lead. See www.P65Warnings.ca.gov

CE Conformity

CE

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.

UKCA Conformity

UK CA

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

Consumer Limited Warranty - Australia

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)

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.

Proper Disposal

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.

Class B ITE

この装置は、クラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをして下さい。

Trademark Information

The terms HDMI® and HDMI High-Definition Multimedia Interface, and the HDMI logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

HDMI®
HIGH-DEFINITION MULTIMEDIA INTERFACE

BSMI 限用物質及元素清單

單元	限用物質及其化學符號					
	鉛 (Pb)	鎘 (Cd)	汞 (Hg)	六價鉻 (Cr^{+6})	多溴聯苯 (PBB)	多溴聯苯醚 (PBDE)
電路板	O	O	O	O	O	O
電子元件	-	O	O	O	O	O
線材	-	O	O	O	O	O
配件	-	O	O	O	O	O

備考 1.〝超出 0.1 wt %〞及〝超出 0.01 wt %〞係指限用物質之百分比含量超出百分比含量基準值。

備考 2.〝〇〞係指該項限用物質之百分比含量未超出百分比含量基準值。

備考 3.〝－〞係指該項限用物質為排除項目。

China RoHS

电子信息产品污染控制标示

依据中国发布的「电子信息产品污染控制管理办法」及 SJ/T 11364-2006「电子信息产品污染控制标示要求」，电子信息产品应进行标示，藉以向消费者揭露产品中含有的有毒有害物质或元素不致发生外泄或突变从而对环境造成污染或对人身、财产造成严重损害的期限。依上述规定，您可于本产品之印刷电路板上看见图一之标示。图一中之数字为产品之环保使用期限。由此可知此主板之环保使用期限为 10 年。

图一

产品中有害物质的名称及含有信息表

部件名称	有害物质或元素									
	铅 (Pb)	镉 (Cd)	汞 (Hg)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)	邻苯二甲酸二 (2- 乙基) 己酯 (DEHP)	邻苯二甲酸丁基苄酯 (BBP)	邻苯二甲酸二正丁酯 (DBP)	邻苯二甲酸二异丁酯 (DIBP)
印刷电路板及电子组件	X	O	O	O	O	O	O	O	O	O
外部信号连接头及线材	X	O	O	O	O	O	O	O	O	O

以上表格依据 SJ/T 11364-2024 的规定编制。

注 1: O: 表示该有害物质在该部件所有均质材料中的含量均满足电器电子产品有害物质限制使用国家标准要求。

X: 表示该有害物质至少在该部件的某一均质材料中的含量不满足电器电子产品有害物质限制使用国家标准要求。

注 2: 以上未列出的部件 , 表明其有害物质含量均满足电器电子产品有害物质限制使用国家标准要求。

备注：此产品所标示之环保使用年限，系指在一般正常使用状况下。