



PHANTOM GAMING A6201 LIGHTNING MIE

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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Chapter 1 Introduction

Thank you for purchasing ASRock A620I Lightning WiFi 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 <u>http://www.asrock.com</u>.

1.1 Package Contents

- ASRock A620I Lightning WiFi Motherboard (Mini-ITX Form Factor)
- ASRock A620I Lightning WiFi User Manual
- 2 x Serial ATA (SATA) Data Cables (Optional)
- 2 x ASRock WiFi 2.4/5/6 GHz Antennas (Optional)
- 1 x Screw for M.2 Socket (Optional)

1.2 Specifications

Platform	Mini-ITX Form Factor8 Layer PCB
CPU	 Supports AMD Socket AM5 Ryzen[™] 7000 Series Processors* * Please refer to CPU Support List on ASRock's website for more information. (http://www.asrock.com/)
Chipset	• AMD A620
Memory	 Dual Channel DDR5 Memory Technology 2 x DDR5 DIMM Slots Supports DDR5 non-ECC, un-buffered memory up to 7200+(OC)* Max. capacity of system memory: 96GB Supports Extreme Memory Profile (XMP) and EXTended Profiles for Overclocking (EXPO) memory modules * Please refer to Memory Support List on ASRock's website for more information. (http://www.asrock.com/)
Expansion Slot	 CPU: 1 x PCIe 4.0 x16 Slot (PCIE1), supports x16 mode* Chipset: 1 x Vertical M.2 Socket (Key E), supports type 2230 WiFi/ BT PCIe WiFi module * Supports NVMe SSD as boot disks 15μ Gold Contact in VGA PCIe Slot (PCIE1)
Graphics	 Integrated AMD RDNATM 2 graphics (Actual support may vary by CPU) 1 x HDMI 2.1 TMDS/FRL 8G Compatible, supports HDR, HDCP 2.3 and max. resolution up to 4K 120Hz

Audio	7.1 CH HD Audio (Realtek ALC897 Audio Codec)Nahimic Audio
LAN	 2.5 Gigabit LAN 10/100/1000/2500 Mb/s Dragon RTL8125BG Supports Phantom Gaming LAN Software Smart Auto Adjust Bandwidth Control Visual User Friendly UI Visual Network Usage Statistics Optimized Default Setting for Game, Browser, and Streaming Modes User Customized Priority Control
Wireless LAN	 802.11ax Wi-Fi 6E Module Supports IEEE 802.11a/b/g/n/ac/ax 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 + High speed class II Supports MU-MIMO
USB	 1 x USB 3.2 Gen2 Type-C (Rear) 2 x USB 3.2 Gen2 Type-A (Rear) 1 x USB 3.2 Gen1 Type-A (Rear) 1 x USB 3.2 Gen1 Type-C (Front) 2 x USB 3.2 Gen1 Type-A (Front) 4 x USB 2.0 (2 Rear, 2 Front) * All USB ports support ESD Protection

Rear Panel I/O	 2 x Antenna Ports 1 x HDMI Port 2 x USB 3.2 Gen2 Type-A Ports (10 Gb/s)* 1 x USB 3.2 Gen1 Type-A Port* 1 x USB 3.2 Gen2 Type-C Port (10 Gb/s) 2 x USB 2.0 Ports 1 x RJ-45 LAN Port 1 x BIOS Flashback Button HD Audio Jacks: Line in / Front Speaker / Microphone * USB32_23 are Lightning Gaming Ports.
Storage	 CPU: 1 x Hyper M.2 Socket (M2_1, Key M), supports type 2280 PCIe Gen4x4 (64 Gb/s) mode* Chipset: 1 x Ultra M.2 Socket (M2_2, Key M), supports type 2280 PCIe Gen3x4 (32 Gb/s) mode* 2 x SATA3 6.0 Gb/s Connectors * Supports NVMe SSD as boot disks
RAID	 Supports RAID 0 and RAID 1 for SATA storage devices Supports RAID 0, RAID 1 and RAID 10 for M.2 NVMe storage devices* * Requires additional M.2 NVMe expansion cards to support RAID 10
Connector	 2 x Addressable LED Headers* 2 x CPU/Water Pump Fan Connectors (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 (Hi-Density 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) 1 x Front Panel Type C USB 3.2 Gen1 Header

	 * Support in total up to 5V/3A, 15W LED Strip ** CPU_FAN1/WP and CPU_FAN2/WP support the fan power up to 2A (24W). *** CHA_FAN1/WP supports the fan power up to 2A (24W). *** CPU_FAN1/WP, CPU_FAN2/WP and 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
Certifica- tions	 FCC, CE ErP/EuP ready (ErP/EuP ready power supply is required)

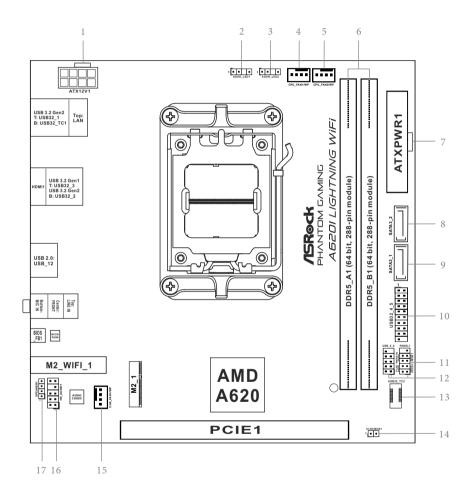
* For detailed product information, please visit our website: <u>http://www.asrock.com</u>



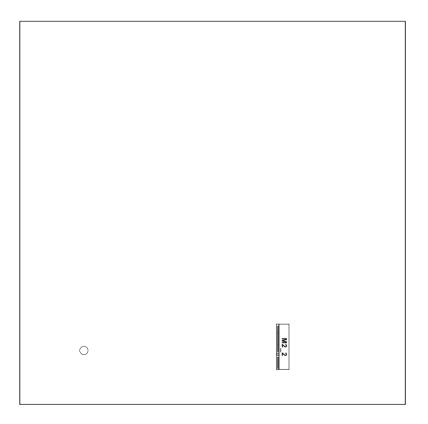
Please realize that there is a certain risk involved with overclocking, including adjusting the setting in the BIOS, applying Untied Overclocking Technology, or using third-party overclocking tools. Overclocking may affect your system's stability, or even cause damage to the components and devices of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

Top Side View

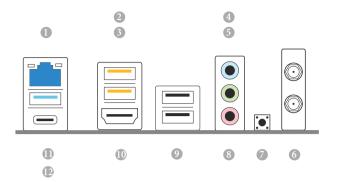


Back Side View



No.	Description
1	ATX 12V Power Connector (ATX12V1)
2	Addressable LED Header (ADDR_LED1)
3	Addressable LED Header (ADDR_LED2)
4	CPU/Water Pump Fan Connector (CPU_FAN1/WP)
5	CPU/Water Pump Fan Connector (CPU_FAN2/WP)
6	2 x 288-pin DDR5 DIMM Slots (DDR5_A1, DDR5_B1)
7	ATX Power Connector (ATXPWR1)
8	SATA3 Connector (SATA3_2)
9	SATA3 Connector (SATA3_1)
10	USB 3.2 Gen1 Header (USB32_4_5)
11	System Panel Header (PANEL1)
12	USB 2.0 Header (USB_5_6)
13	Front Panel Type C USB 3.2 Gen1 Header (USB32_TC2)
14	Clear CMOS Jumper (CLRCMOS1)
15	Chassis/Water Pump Fan Connector (CHA_FAN1/WP)
16	Front Panel Audio Header (HD_AUDIO1)
17	Chassis Speaker Header (SPEAKER1)

1.4 I/O Panel



No.	Description	No.	Description
1	2.5G LAN RJ-45 Port*	7	BIOS Flashback Button
2	USB 3.2 Gen1 Type-A Port (USB32_3)**	8	Microphone (Pink)***
3	USB 3.2 Gen2 Type-A Port (USB32_2)**	9	USB 2.0 Ports (USB_12)
4	Line In (Light Blue)***	10	HDMI Port
5	Front Speaker (Lime)***	11	USB 3.2 Gen2 Type-A Port (USB32_1)
6	Antenna Ports	12	USB 3.2 Gen2 Type-C Port (USB32_TC1)

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

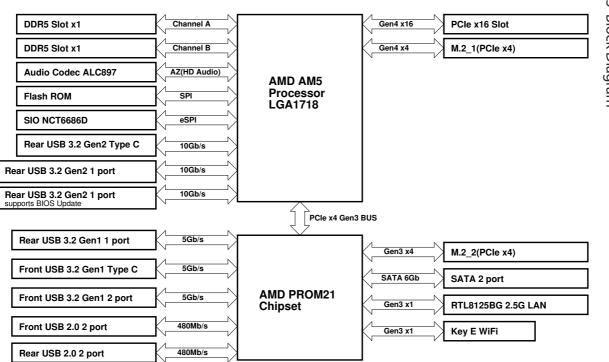


Activity / Link LED		Speed LED		
Status	Description	Status	Description	
Off	No Link	Off	10Mbps connection	
Blinking	Data Activity	Orange	100Mbps/1Gbps connection	
On	Link	Green	2.5Gbps connection	

** USB32_23 are Lightning Gaming Ports.

Tunetion of the framio Ports in 717 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	

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





1.6 802.11ax Wi-Fi 6E Module and ASRock WiFi 2.4/5/6 GHz Antennas

802.11ax Wi-Fi 6E + BT Module

This motherboard comes with an exclusive 802.11 a/b/g/n/ac/ax Wi-Fi 6E + BT v5.2 module that offers support for 802.11 a/b/g/n/ac/ax Wi-Fi 6E connectivity standards and Bluetooth v5.2. Wi-Fi 6E + BT module is an easy-to-use wireless local area network (WLAN) adapter to support Wi-Fi 6E + BT. Bluetooth v5.2 standard features Smart Ready technology that adds a whole new class of functionality into the mobile devices. BT 5.2 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.

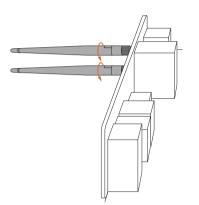
* A 6GHz compatible router is required for 6E functionality.

WiFi Antennas Installation Guide



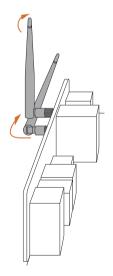
Step 1

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 Mini-ITX 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.

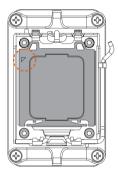
- Make sure to unplug the power cord before installing or removing the motherboard components. Failure to do so may cause physical injuries and damages to motherboard components.
- In order to avoid damage from static electricity to the motherboard's components, NEVER place your motherboard directly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

2.1 Installing the CPU

- Before you insert the 1718-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.



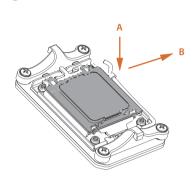
Tutorial Video

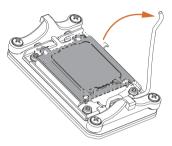


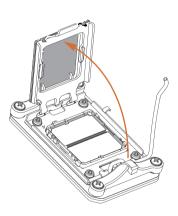


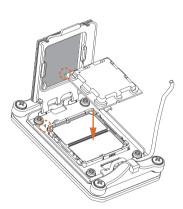


Turn your CPU to the correct orientation before opening the CPU socket cover.



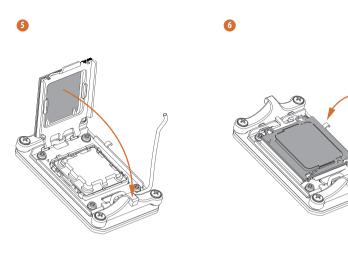




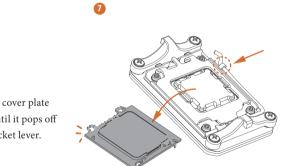




Carefully place the CPU in as flat as possible. Do not drop it.



Make sure the CPU is aligned with the socket before locking it into place.



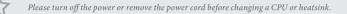
Make sure the black cover plate is always in place until it pops off when closing the socket lever.



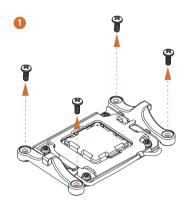
Please save the cover if the processor is removed. The cover must be placed if you wish to return the motherboard for after service.

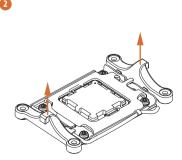
2.2 Installing the CPU Fan and Heatsink

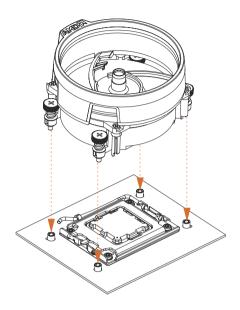
After you install the CPU into this motherboard, it is necessary to install a larger heatsink and cooling fan to dissipate heat. You also need to spray thermal grease between the CPU and the heatsink to improve heat dissipation. Make sure that the CPU and the heatsink are securely fastened and in good contact with each other.

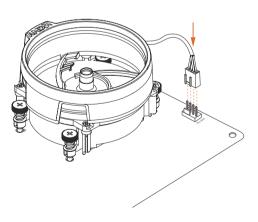


Installing the CPU Cooler (Type 1)



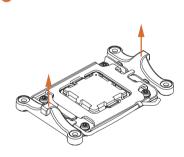


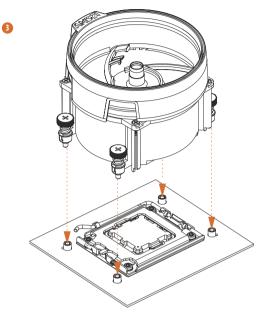




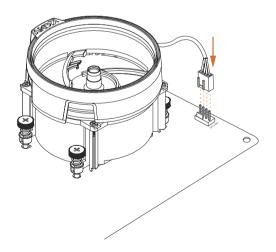
Installing the CPU Cooler (Type 2)



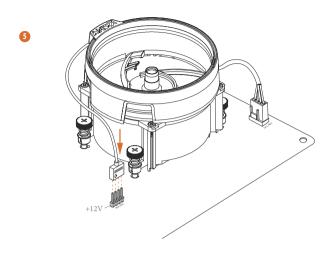






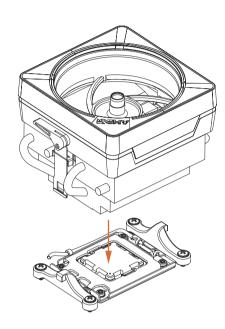


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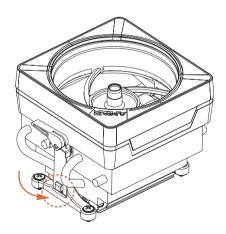
*The illustrations shown here are for reference purposes only and may not exactly match the model you purchase.

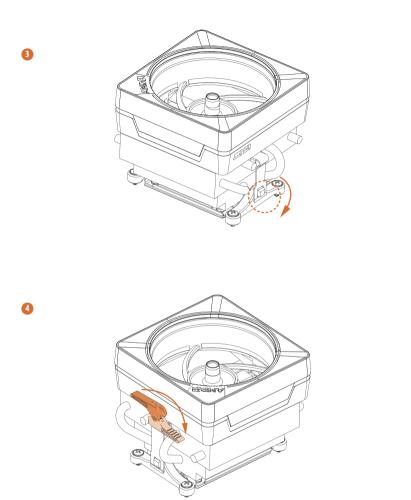
Installing the CPU Cooler (Type 3)



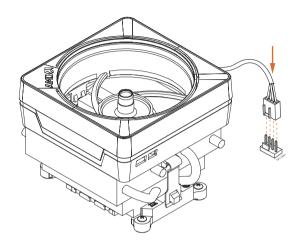
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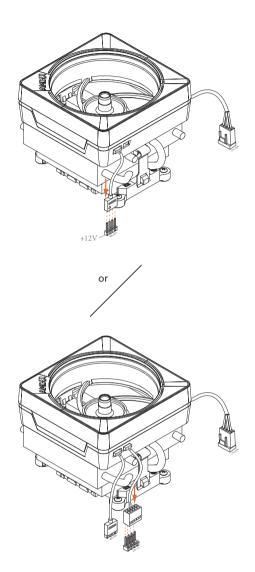








6



Please note that only one cable should be used at a time in this step. If you select RGB_LED1, please install ASRock utility "ASRock Polychrome SYNC". If you select USB connector, please install AMD utility "SR3 Settings Software".

*The illustrations shown here are for reference purposes only and may not exactly match the model you purchase.

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.

- 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.

Recommended Memory Configuration

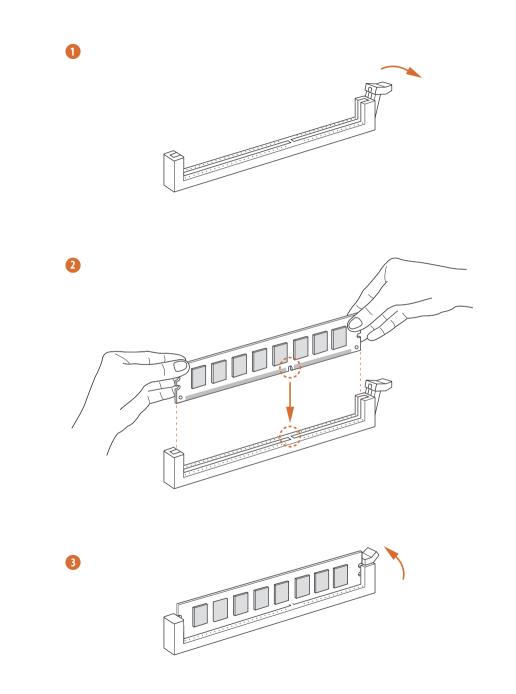
1 DIMM

A1	B1	
	V	
2 DIMMs		
A1	B1	
V	V	

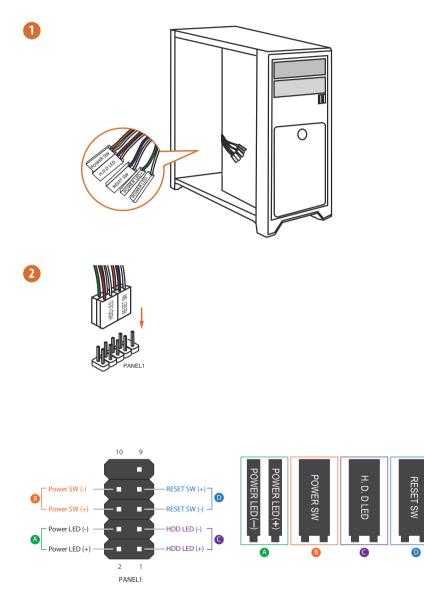
The first boot may take some time.

Please be patient and refer to the following table for booting time. *It may vary by different setups.

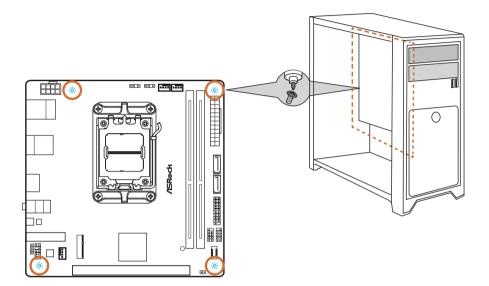
Memory	1st boot after clear CMOS
2 x 16GB	90 sec
2 x 32GB	150 sec



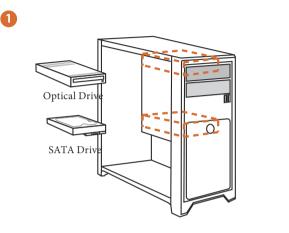
2.4 Connecting the Front Panel Header



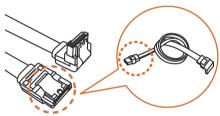
2.5 Installing the Motherboard



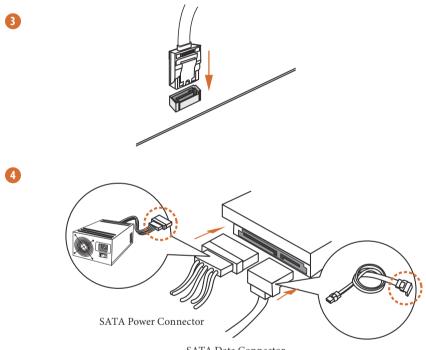
2.6 Installing SATA Drives



2

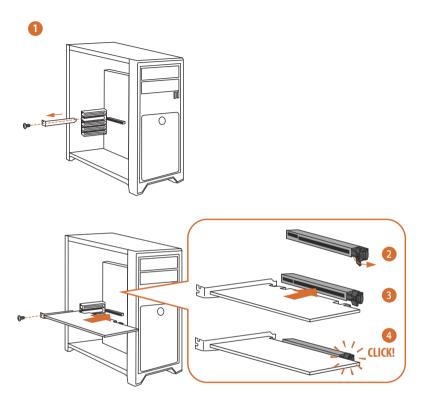


SATA Data Cable



SATA Data Connector

2.7 Installing a Graphics Card



Expansion Slot (PCle Slot)

There is 1 PCI Express slot on the motherboard.

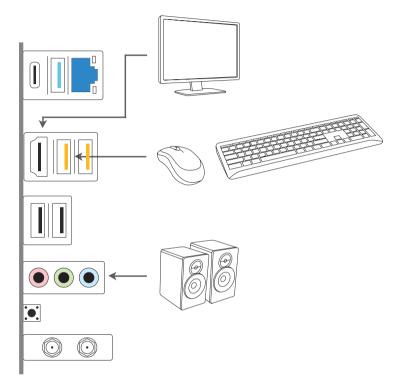


Before installing an expansion card, please make sure that the power supply is switched off or the power cord is unplugged. Please read the documentation of the expansion card and make necessary hardware settings for the card before you start the installation.

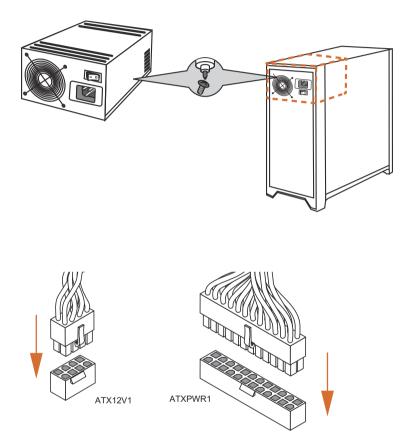
PCIe slots:

PCIE1 (PCIe 4.0 x16 slot) is used for PCIe x16 lane width graphics cards.

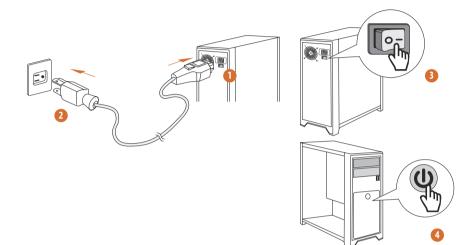
2.8 Connecting Peripheral Devices



2.9 Connecting the Power Connectors

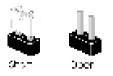


2.10 Power On



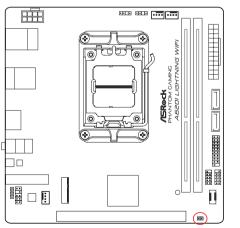
2.11 Jumpers Setup

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 (CLRCMOS1) (see p.6, No. 14)

CLRCMOS1 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 CLRCMOS1 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.



CLRCMOS1

2-pin Jumper

Short: Clear CMOS Open: Default

2.12 Onboard Headers and Connectors

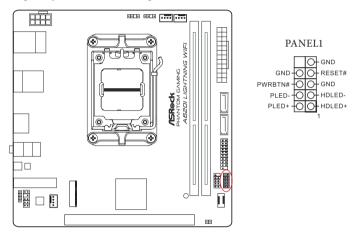


Onboard headers and connectors are NOT jumpers. Do NOT place jumper caps over these headers and connectors. Placing jumper caps over the headers and connectors will cause permanent damage to the motherboard.

System Panel Header

(9-pin PANEL1) (see p.6, No. 11)

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.



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. Please refer to the table below for PLED (System Power LED) indications.

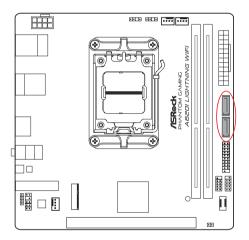
Status	Description		
Blinking (2Hz)	Booting into system		
On	Booting completed		
Blinking till BFG	DRAM overclocking failed		
On	Booting without DRAM		
Blinking (1Hz)	Entering S3 sleep mode		

Serial ATA3 Connectors

(SATA3_1) (see p.6, No. 9)

(SATA3_2) (see p.6, No. 8)

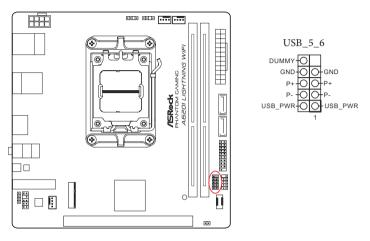
These two SATA3 connectors support SATA data cables for internal storage devices with up to 6.0 Gb/s data transfer rate.





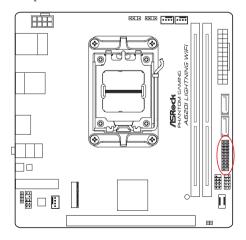
```
USB 2.0 Header
(9-pin USB_5_6) (see p.6, No. 12)
```

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

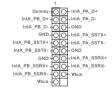


USB 3.2 Gen1 Header (19-pin USB32_4_5) (see p.6, No. 10)

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

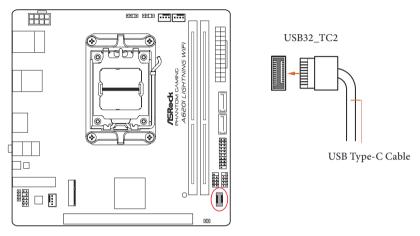


```
USB32_4_5
```



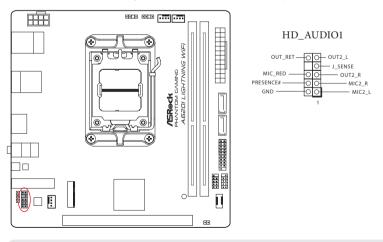
Front Panel Type C USB 3.2 Gen1 Header (20-pin USB32_TC2) (see p.6, No. 13)

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. 16)

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



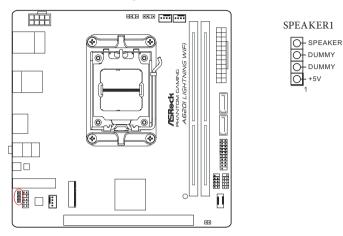
High Definition Audio supports Jack Sensing, but the panel wire on the chassis must support HDA to function correctly. Please follow the instructions in our manual and chassis manual to install your system.

÷

Chassis Speaker Header

(4-pin SPEAKER1) (see p.6, No. 17)

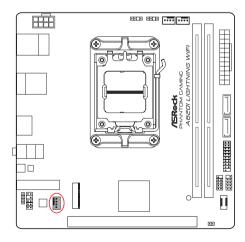
Please connect the chassis speaker to this header.



Chassis/Water Pump Fan Connector

(4-pin CHA_FAN1/WP) (see p.6, No. 15)

This motherboard provides a 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.



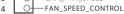
CHA_FAN1/WP



DUMMY

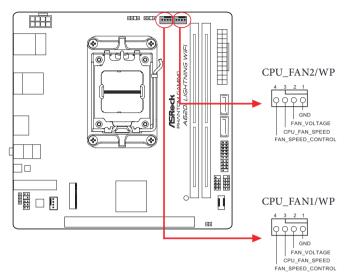
DUMMY

+5V



CPU/Water Pump Fan Connectors (4-pin CPU_FAN1/WP) (see p.6, No. 4) (4-pin CPU_FAN2/WP) (see p.6, No. 5)

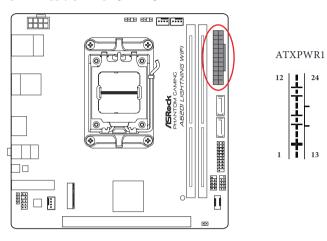
This motherboard provides two 4-Pin water cooling CPU fan connectors. If you plan to connect a 3-Pin CPU water cooler fan, please connect it to Pin 1-3.



ATX Power Connector

(24-pin ATXPWR1) (see p.6, No. 7)

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.

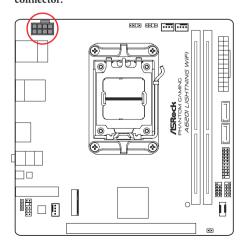


ATX 12V Power Connector

(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



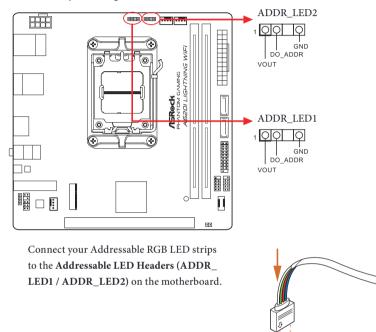
Addressable LED Headers

(3-pin ADDR_LED1) (see p.6, No. 2)

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

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.



- 1. Never install the RGB LED cable in the wrong orientation; otherwise, the cable may be damaged.
- 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.
- \overleftrightarrow

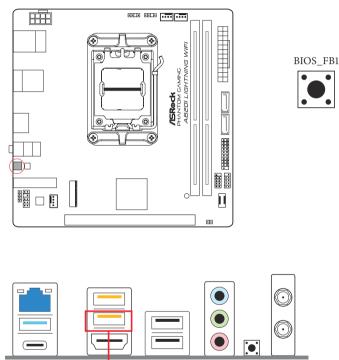
1. Please note that the RGB LED strips do not come with the package.

2. The RGB 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 Smart Button

The motherboard has a smart button: BIOS Flashback Button, allowing users to flash the BIOS.

BIOS Flashback Button (BIOS_FB1) (see p.9, No. 7) BIOS Flashback Button allows users to flash the BIOS.

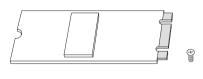


USB BIOS Flashback port

2.14 M.2 SSD Module Installation Guide (M2_1)

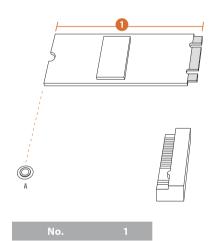
The M.2 is a small size and versatile card edge connector that aims to replace mPCIe and mSATA. The Hyper M.2 Socket (M2_1, Key M) supports type 2280 PCIe Gen4x4 (64 Gb/s) mode.

Installing the M.2 SSD Module



Step 1

Prepare a M.2 SSD module and the screw.



А

8cm

Type2280

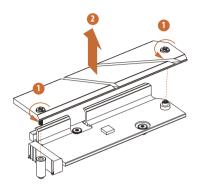
Nut Location

PCB Length

Module Type

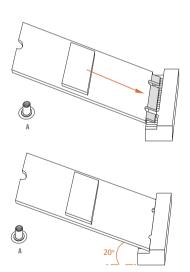
Step 2

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



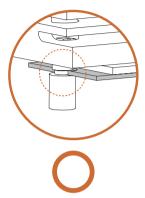
Step 3

Before installing a M.2 SSD module, please loosen the screws to remove the M.2 heatsink. *Please remove the protective films on the bottom side of the M.2 heatsink before you install a M.2 SSD module.



Step 4

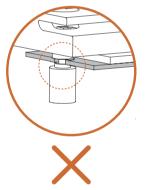
Align and gently insert the M.2 SSD module into the M.2 slot. Please be aware that the M.2 SSD module only fits in one orientation.



Step 5

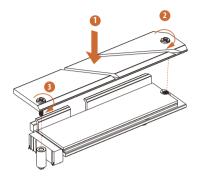
Before securing the M.2 heatsink, make sure to align the notch on the SSD to the standoff on the motherboard; otherwise, the SSD module may be damaged.

Correct Installation: The SSD's PCB is in proper place, and the M.2 heatsink can be screwed in.



Incorrect Installation: The SSD's PCB sits between M.2 heatsink and standoff. Do not continue.

A620I Lightning WiFi



Step 6

Tighten the screws with a screwdriver to secure the module and M.2 heatsink into place in the order shown. Tighten screw opposite the M.2 connector first (2), and then tighten the one next to the M.2 connector (3). *Please do not overtighten the screw

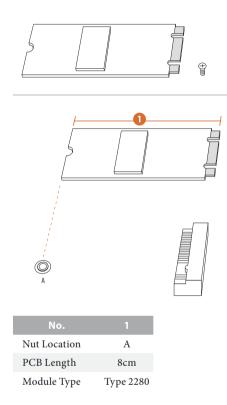
as this might damage the module and M.2 heatsink.

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

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 Ultra M.2 Socket (M2_2, Key M) supports type 2280 PCIe Gen3x4 (32 Gb/s) mode.

Installing the M.2 SSD Module

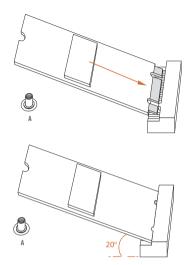


Step 1

Prepare a M.2 SSD module and the screw.

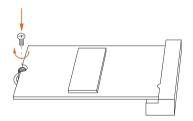
Step 2

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



Step 3

Peel off the yellow protective film on the nut to be used. 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: <u>http://www.asrock.com</u> Version 1.0 Published August 2023

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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.

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.





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.

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 <u>www.dtsc.ca.gov/hazardouswaste/</u> <u>perchlorate</u>"

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

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 <u>https://www.asrock.com/general/about.asp?cat=Responsibility</u> 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.

CE Warning

This device complies with directive 2014/53/EU issued by the Commision of the European Community.

This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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

	AT	BE	BG	СН	CY	CZ	DE
	DK	EE	EL	ES	FI	FR	HR
	ΗU	IE	IS	IT	LI	LT	LU
	LV	ΜТ	NL	NO	PL	РТ	RO
	SE	SI	SK	TR			

CE

Radio transmit power per transceiver type

Function	Frequency	Maximum Output Power (EIRP)		
	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)		
WiFi	5250-5550 WITZ	21.5 + / -1.5 dbm (TPC)		
VV IFI	5470 5725 MIL	25.5 + / -1.5 dbm (no TPC)		
	5470-5725 MHz 5725-5850 MHz 5945-6425 MHz	28.5 + / -1.5 dbm (TPC)		
		11 + / -1.5 dbm		
		21 + / -1.5 dbm		
Bluetooth	2400-2483.5 MHz	8.5 + / -1.5 dbm		

