ASRock®

B550M-ITX/ac

User Manual

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.

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"

ASRock Website: http://www.asrock.com

AUSTRALIA ONLY

HDMI®
HIGH-DEFINITION MULTIMEDIA INTERFACE

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 5.15-5.35GHz 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	UK		

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
WiFi	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

Contents

Chapter 1 Introduction

Thank you for purchasing ASRock B550M-ITX/ac 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.

In this documentation, Chapter 1 and 2 contains the introduction of the motherboard and step-by-step installation guides. Chapter 3 contains the operation guide of the software and utilities. Chapter 4 contains the configuration guide of the BIOS setup.

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 B550M-ITX/ac Motherboard (Mini-ITX Form Factor)
- ASRock B550M-ITX/ac Quick Installation Guide
- ASRock B550M-ITX/ac Support CD
- 1 x I/O Panel Shield
- 2 x Serial ATA (SATA) Data Cables (Optional)
- 2 x ASRock WiFi 2.4/5 GHz Antennas (Optional)

English

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1.2 Specifications

Platform	• Mini-ITX Form Factor • Solid Capacitor design
CPU	• Supports 3rd Gen AMD AM4 Ryzen™ / future AMD Ryzen™ Processors (3000 and 4000 Series Processors)* * Not compatible with AMD Athlon™ Processors. • Digi Power design • 8 Power Phase design
Chipset	• AMD B550
Memory	• Dual Channel DDR4 Memory Technology • 2 x DDR4 DIMM Slots • AMD Ryzen series CPUs (Matisse) support DDR4 4600+ (OC)/4533(OC)/4466(OC)/4400(OC)/4333(OC)/4333(OC)/ 4266(OC)/4200(OC)/4133(OC)/4000(OC)/3866(OC)/3800 (OC)/3733(OC)/3600(OC)/3466(OC)/3200/2933/2667/ 2400/2133 ECC & non-ECC, un-buffered memory* • AMD Ryzen series APUs (Renoir) support DDR4 4733+(OC) /4666(OC)/4600(OC)/4533(OC)/4466(OC)/4400(OC)/ 4333(OC)/4266(OC)/4200(OC)/4133(OC)/4000 (OC)/3866(OC)/3800(OC)/3733(OC)/3600(OC)/3466 (OC)/3200/2933/2667/2400/2133 ECC & non-ECC, un-buffered memory* * Please refer to Memory Support List on ASRock's website for more information. (http://www.asrock.com/) * Please refer to page 23 for DDR4 UDIMM maximum frequency support. • Max. capacity of system memory: 64GB • Supports Extreme Memory Profile (XMP) memory modules • 15μ Gold Contact in DIMM Slots

Expansion Slot	**AMD Ryzen series CPUs (Matisse)**
	• 1 x PCI Express 4.0 x16 Slot (PCIE1: x16 mode)**
	AMD Ryzen series APUs (Renoir)
	• 1 x PCI Express 3.0 x16 Slot (PCIE1: x16 mode)**
	* Supports PCIe riser cards to extend x8/x8 slots
	** Supports NVMe SSD as boot disks
	• 1 x Vertical M.2 Socket (Key E) with the bundled WiFi-802.11ac module (on the rear I/O)

Graphics	• Integrated AMD Radeon™ Vega Series Graphics in Ryzen Series APU*
	* Actual support may vary by CPU
	• DirectX 12, Pixel Shader 5.0
	• Shared memory default 2GB. Max Shared memory supports up to 16GB.
	* The Max shared memory 16GB requires 32GB system memory installed.
	• Dual graphics output: support HDMI and DisplayPort 1.4 ports by independent display controllers
	• Supports HDMI 2.1 with max. resolution up to 4K x 2K (4096x2160) @ 60Hz
	• Supports DisplayPort 1.4 Input with max. resolution up to 5K (5120x2880)@120Hz
	• Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI 2.1 Port (Compliant HDMI monitor is required)
	• Supports HDR (High Dynamic Range) with HDMI 2.1
	• Supports HDCP 2.3 with HDMI 2.1 and DisplayPort 1.4 Ports
	• Supports 4K Ultra HD (UHD) playback with HDMI 2.1 and DisplayPort 1.4 Ports
	• Supports Microsoft PlayReady®

Audio	• 7.1 CH HD Audio (Realtek ALC887 Audio Codec)
	• Supports Surge Protection

LAN	• PCIE x1 Gigabit LAN 10/100/1000 Mb/s
	• Realtek RTL8111H
	• Supports Wake-On-LAN
	• Supports Lightning/ESD Protection
	• Supports Energy Efficient Ethernet 802.3az
	• Supports PXE
Wireless LAN	• Intel® 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 4.2+ High speed class II
Rear Panel I/O	• 2 x Antenna Ports
	• 1 x PS/2 Mouse/Keyboard Port
	• 1 x HDMI Port
	• 1 x DisplayPort 1.4
	• 2 x USB 2.0 Ports (Supports ESD Protection)
	• 3 x USB 3.2 Gen1 Type-A Ports (Supports ESD Protection)
	• 1 x USB 3.2 Gen1 Type-C Port (Supports ESD Protection)
	• 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED)
	• HD Audio Jacks: Line in / Front Speaker / Microphone
Storage	• 4 x SATA3 6.0 Gb/s Connectors, support RAID (RAID 0, RAID 1 and RAID 10), NCQ, AHCI and Hot Plug
	• 1 x Hyper M.2 Socket (M2_1), supports M Key type 2280 M.2 SATA3 6.0 Gb/s module and M.2 PCI Express module up to Gen4x4 (64 Gb/s) (with Matisse) or Gen3x4 (32 Gb/s) (with Renoir)*
	* Supports NVMe SSD as boot disks
	* Supports ASRock U.2 Kit
Connector	• 1 x RGB LED Header
	* Supports in total up to 12V/3A, 36W LED Strip
	• 1 x Addressable LED Header
	* Supports in total up to 5V/3A, 15W LED Strip
	• 1 x CPU Fan Connector (4-pin)
	* The CPU Fan Connector supports the CPU fan of maximum 1A (12W) fan power.

- 2 x Chassis/Water Pump Fan Connectors (4-pin) (Smart Fan Speed Control)

* The Chassis/Water Pump Fan supports the water cooler fan of maximum 2A (24W) fan power.

* CHA_FAN1/WP and CHA_FAN2/WP can auto detect if 3-pin or 4-pin fan is in use.

- 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) (Supports ESD Protection)
- 1 x USB 3.2 Gen1 Header (Supports 2 USB 3.2 Gen1 ports) (Supports ESD Protection)

BIOS Feature	- AMI UEFI Legal BIOS with GUI support - Supports "Plug and Play" - ACPI 5.1 compliance wake up events - Supports jumperfree - SMBIOS 2.3 support - CPU, CPU VDDCR_SOC, DRAM, VPPM, +1.8VSB, VDDP Voltage Multi-adjustment
Hardware Monitor	- Temperature Sensing: CPU, Chassis/Water Pump Fans - Fan Tachometer: CPU, Chassis/Water Pump Fans - Quiet Fan (Auto adjust chassis fan speed by CPU temperature): CPU, Chassis/Water Pump Fans - Fan Multi-Speed Control: CPU, Chassis/Water Pump Fans - Voltage monitoring: +12V, +5V, +3.3V, CPU Vcore
OS	- Microsoft® Windows® 10 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

English

⚠️ *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
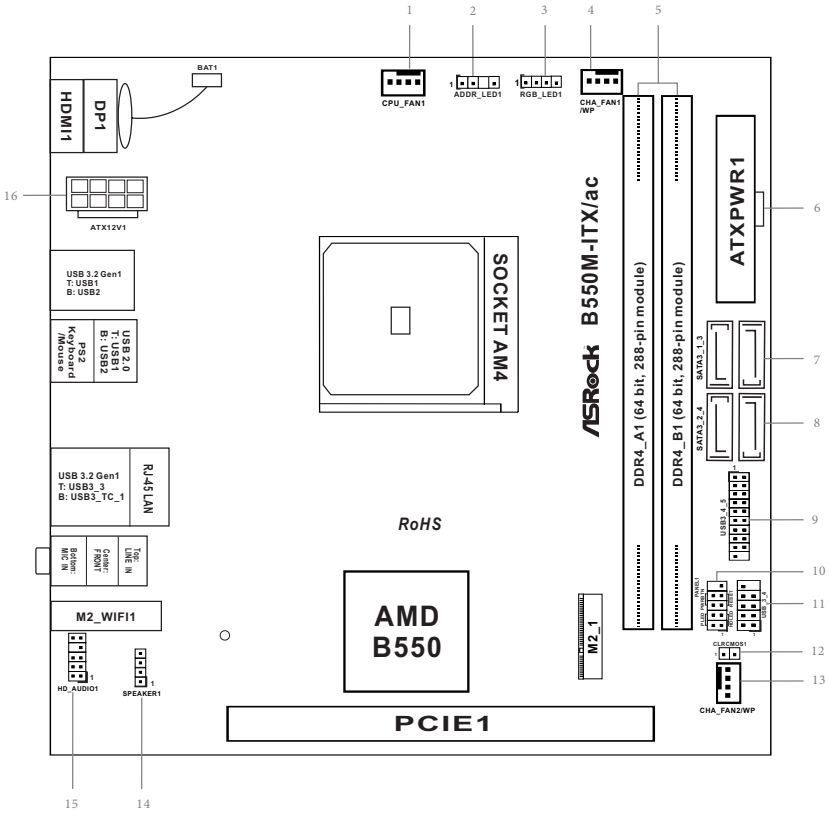
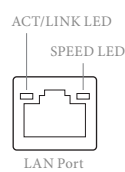| No.	Description
1	CPU Fan Connector (CPU_FAN1)
2	Addressable LED Header (ADDR_LED1)
3	RGB LED Header (RGB_LED1)
4	Chassis/Water Pump Fan Connector (CHA_FAN1/WP)
5	2 x 288-pin DDR4 DIMM Slots (DDR4_A1, DDR4_B1)
6	ATX Power Connector (ATXPWR1)
7	SATA3 Connectors (SATA3_1_3)
8	SATA3 Connectors (SATA3_2_4)
9	USB 3.2 Gen1 Header (USB3_4_5)
10	System Panel Header (PANEL1)
11	USB 2.0 Header (USB_3_4)
12	Clear CMOS Jumper (CLRCMOS1)
13	Chassis/Water Pump Fan Connector (CHA_FAN2/WP)
14	Chassis Speaker Header (SPEAKER1)
15	Front Panel Audio Header (HD_AUDIO1)
16	ATX 12V Power Connector (ATX12V1)

1.4 I/O Panel
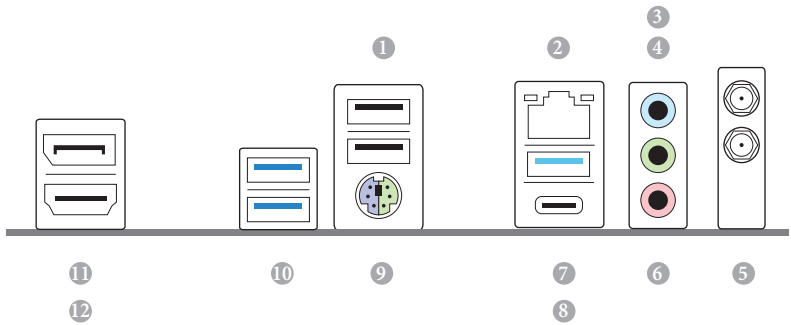
No.	Description	No.	Description
1	USB 2.0 Ports (USB_12)*	7	USB 3.2 Gen1 Type-A Port (USB3_3)
2	LAN RJ-45 Port**	8	USB 3.2 Gen1 Type-C Port (USB3_TC_1)
3	Line In (Light Blue)***	9	PS/2 Mouse/Keyboard Port
4	Front Speaker (Lime)***	10	USB 3.2 Gen1 Type-A Port (USB3_1_2)
5	Antenna Ports	11	DisplayPort 1.4
6	Microphone (Pink)***	12	HDMI Port

Please note that the USB_12 consume auxiliary power (+5VSB) while the other USB ports consume DUAL Power (+5VDUAL). The USB_12 are optimal for connecting the USB Type speaker and headset..

** 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 WiFi-802.11ac Module and ASRock WiFi 2.4/5 GHz Antennas

WiFi-802.11ac + BT Module

This motherboard comes with an exclusive WiFi 802.11 a/b/g/n/ac + BT v4.2 module (pre-installed on the rear I/O panel) that offers support for WiFi 802.11 a/b/g/n/ac connectivity standards and Bluetooth v4.2. WiFi + BT module is an easy-to-use wireless local area network (WLAN) adapter to support WiFi + BT. Bluetooth v4.2 standard features Smart Ready technology that adds a whole new class of functionality into the mobile devices. BT 4.2 also includes Low Energy Technology and ensures extraordinary low power consumption for PCs.
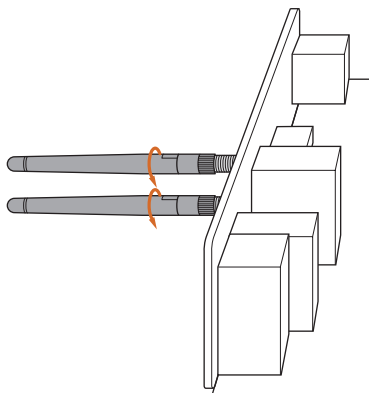
* The transmission speed may vary according to the environment.
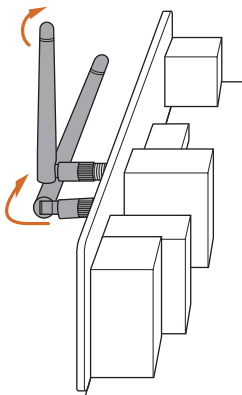
WiFi Antennas Installation Guide

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 clock-wise 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.

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. Failure to do so may cause physical injuries to you 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.

English

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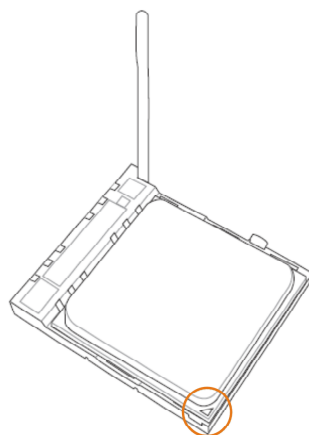## 2.1 Installing the CPU

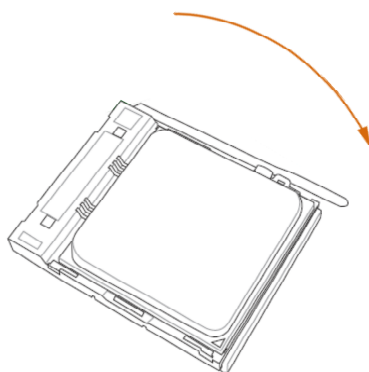☆ *Unplug all power cables before installing the CPU.*

1
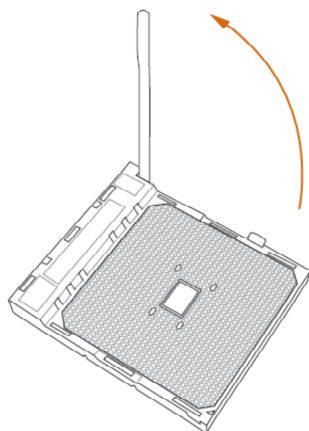
2

3

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.

☆ *Please turn off the power or remove the power cord before changing a CPU or heatsink.*

Installing the CPU Box Cooler SR1

1

2
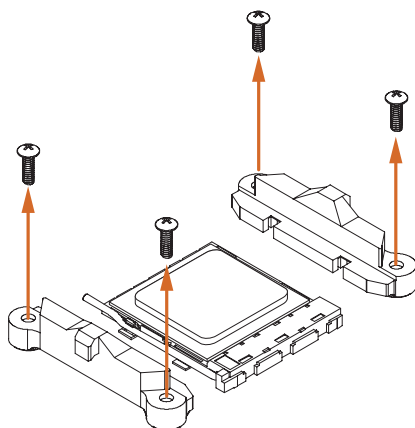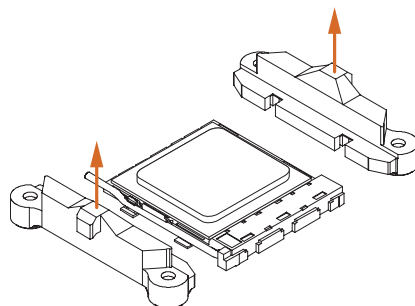
Installing the AM4 Box Cooler SR2

1

2

3
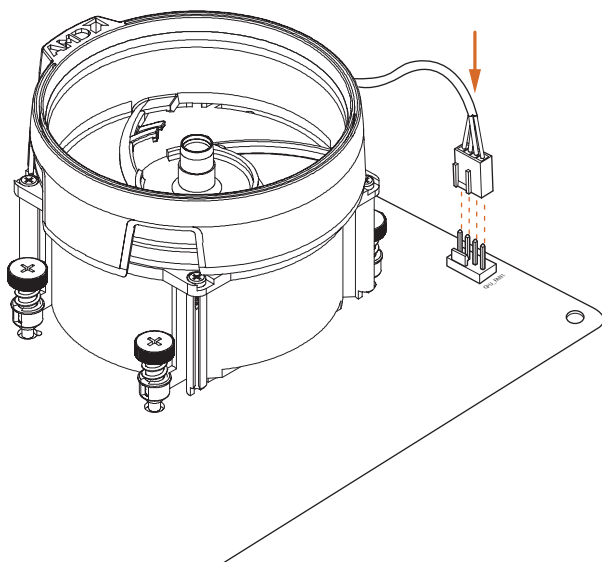
*The diagrams shown here are for reference only. The headers might be in a different position on your motherboard.

Installing the AM4 Box Cooler SR3

1
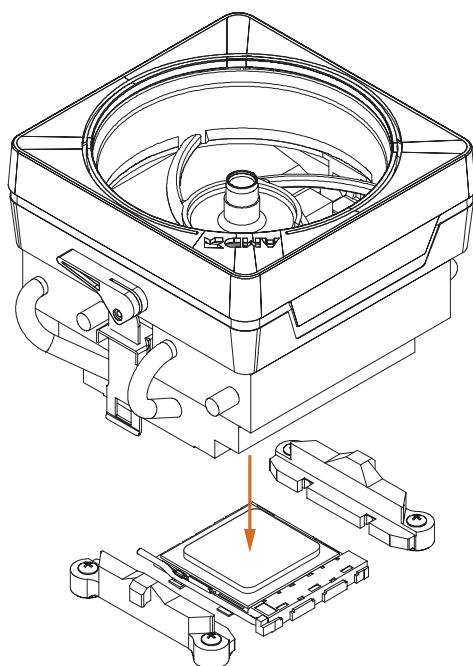
2
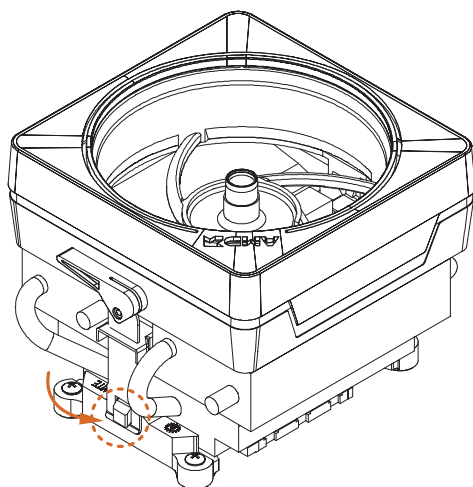
3
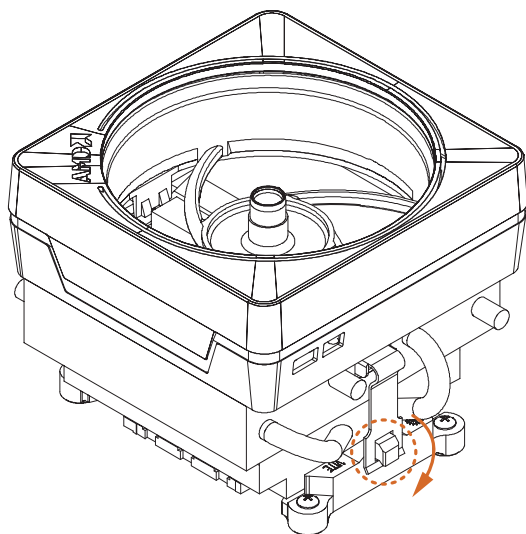
4
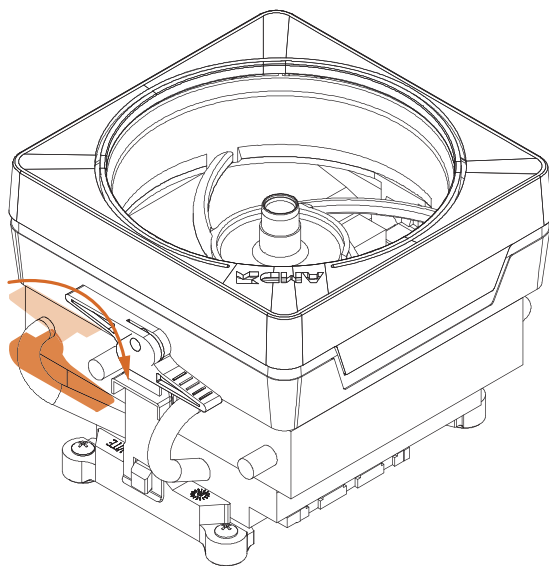
5
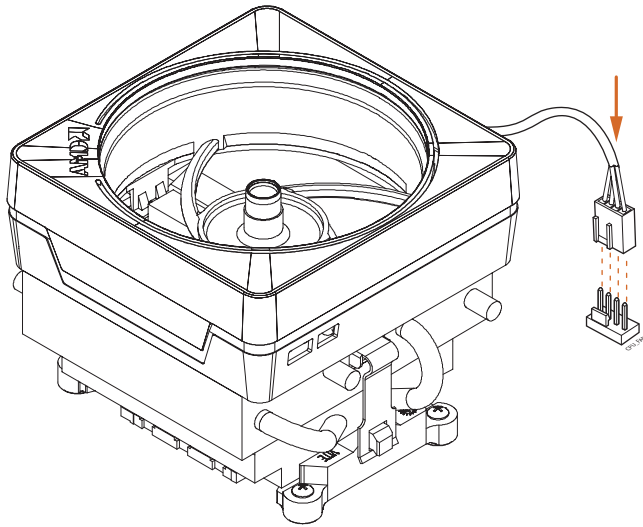
6
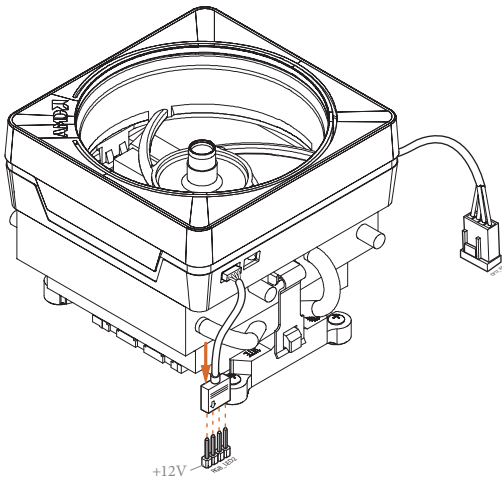
+12V

*The diagrams shown here are for reference only. The headers might be in a different position on your motherboard.

English

2.3 Installing Memory Modules (DIMM)

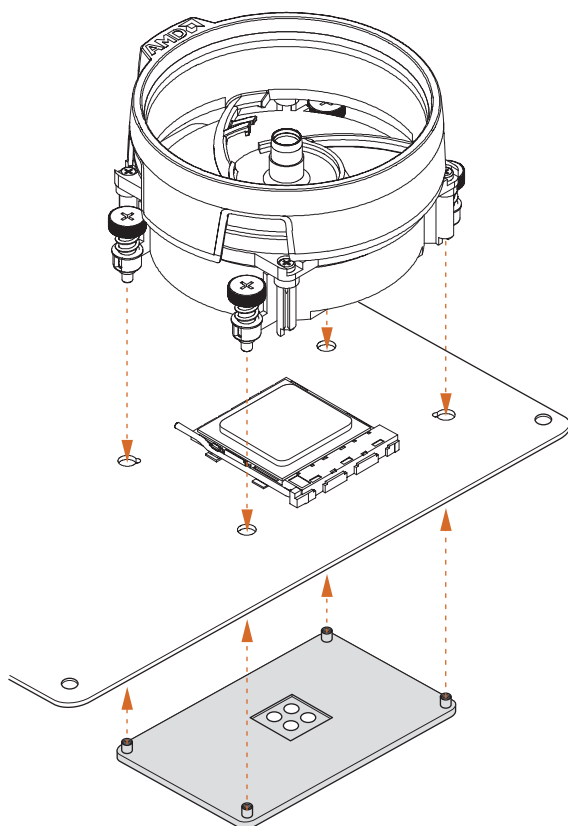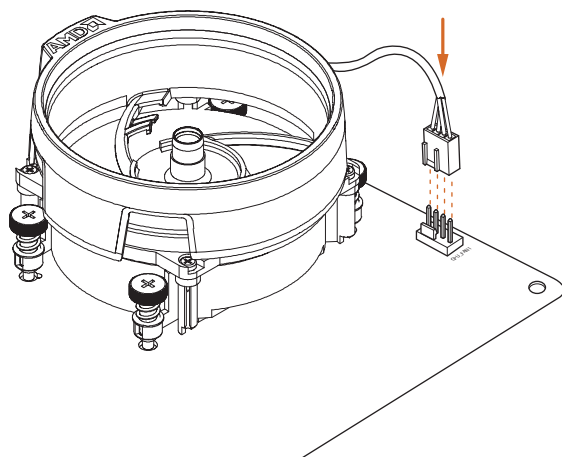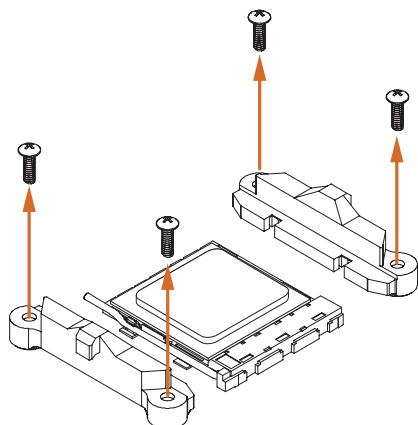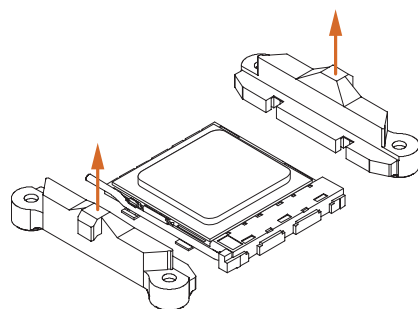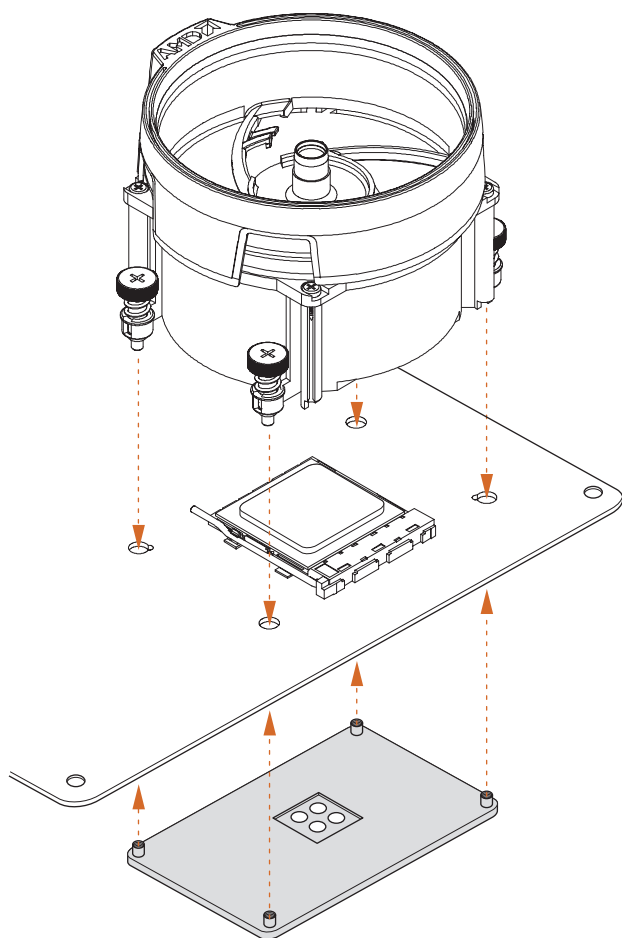This motherboard provides two 288-pin DDR4 (Double Data Rate 4) DIMM slots, and supports Dual Channel Memory Technology.

> ☆
> 1. For dual channel configuration, you always need to install identical (the same brand, speed, size and chip-type) DDR4 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 or DDR3 memory module into a DDR4 slot; otherwise, this motherboard and DIMM may be damaged.

AMD non-XMP Memory Frequency Support

Ryzen Series CPUs (Matisse):

UDIMM Memory Slot		Frequency (Mhz)
A1	B1	
SR	-	3200
-	SR	3200
DR	-	3200
-	DR	3200
SR	SR	3200
DR	DR	3200

Ryzen Series APUs (Renoir):

UDIMM Memory Slot		Frequency (Mhz)
A1	B1	
SR	-	3200
-	SR	3200
DR	-	3200
-	DR	3200
SR	SR	3200
DR	DR	3200

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.
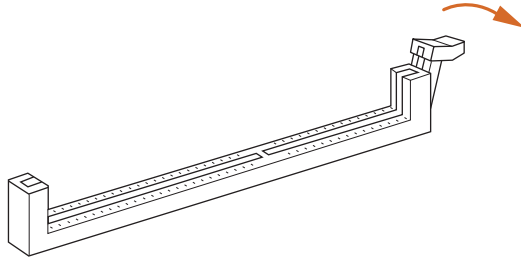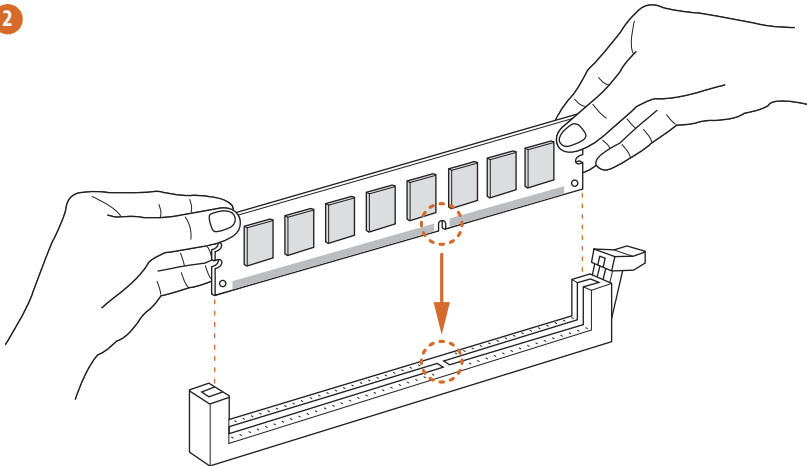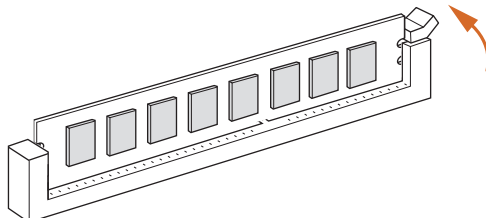
2.4 Expansion Slot (PCI Express Slot)

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 PCI Express x16 lane width graphics cards.

PCIe Slot Configurations

	PCIE1
Ryzen Series CPUs (Matisse)	Gen4x16
Ryzen Series APUs (Renoir)	Gen3x16

> 🔍 *For a better thermal environment, please connect a chassis fan to the motherboard's chassis fan connector (CHA_FAN1/WP or CHA_FAN2/WP) when using multiple graphics cards.*

2.5 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".
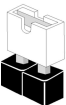
Short   Open

Clear CMOS Jumper   Short: Clear CMOS
(CLRCMOS1)   2-pin Jumper   Open: Default
(see p.7, No. 12)

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.

2.6 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.7, No. 10)

```
        GND
GND ─────── RESET#
PWRBTN# ─── GND
PLED- ───── HDLED-
PLED+ ───── HDLED+
        1
```
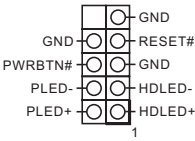
Connect the power button, reset button and system status indicator on the chassis to this header according to the pin assignments below. Note the positive and negative pins before connecting the cables.

🔍 **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.

Chassis Speaker Header
(4-pin SPEAKER1)
(see p.7, No. 14)

```
SPEAKER ─○
DUMMY ───○
DUMMY ───○
+5V ─────○
        1
```
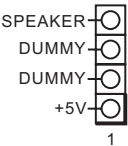
Please connect the chassis speaker to this header.

Serial ATA3 Connectors
(SATA3_1_3:
see p.7, No. 7)
(SATA3_2_4:
see p.7, No. 8)

SATA3_3 SATA3_1
SATA3_4 SATA3_2

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 Headers
(9-pin USB_3_4)
(see p.7, No. 11)

DUMMY
GND — GND
P+ — P+
P- — P-
USB_PWR — USB_PWR
1
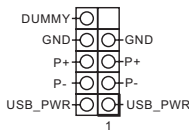
There is one header on this motherboard. This USB 2.0 header can support two ports.

USB 3.2 Gen1 Header
(19-pin USB3_4_5)
(see p.7, No. 9)

1
Dummy — IntA_PA_D+
IntA_PB_D+ — IntA_PA_D-
IntA_PB_D- — GND
GND — IntA_PA_SSTX+
IntA_PB_SSTX+ — IntA_PA_SSTX-
IntA_PB_SSTX- — GND
GND — IntA_PA_SSRX+
IntA_PB_SSRX+ — IntA_PA_SSRX-
IntA_PB_SSRX- — Vbus
Vbus
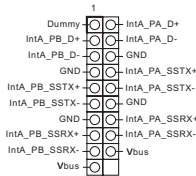
There is one header on this motherboard. This USB 3.2 Gen1 header can support two ports.

Front Panel Audio Header
(9-pin HD_AUDIO1)
(see p.7, No. 15)

OUT_DETECT — OUT L
AGND_A
MIC2_DETECT — OUT R
N/A — MIC2-R
AGND_A — MIC2-L
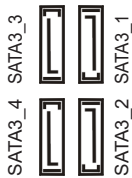1
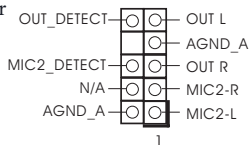
This header is for connecting audio devices to the front audio panel.

1. *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.*
2. *If you use an AC'97 audio panel, please install it to the front panel audio header by the steps below:*
   A. Connect Mic_IN (MIC) to MIC2_L.
   B. Connect Audio_R (RIN) to OUT2_R and Audio_L (LIN) to OUT2_L.
   C. Connect Ground (GND) to Ground (GND).
   D. MIC_RET and OUT_RET are for the HD audio panel only. You don't need to connect them for the AC'97 audio panel.
   E. To activate the front mic, go to the "FrontMic" Tab in the Realtek Control panel and adjust "Recording Volume".

Chassis Water Pump Fan
Connectors
(4-pin CHA_FAN1/WP)
(see p.7, No. 4)

4 3 2 1

AN_SPEED_CONTROL
CHA_FAN_SPEED
FAN_VOLTAGE
GND

This motherboard
provides two 4-Pin water
cooling chassis fan
connector. If you plan to
connect a 3-Pin chassis
water cooler fan, please
connect it to Pin 1-3.
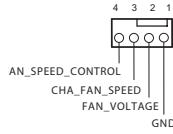
(4-pin CHA_FAN2/WP)
(see p.7, No. 13)

1 ——— GND
2 ——— FAN_VOLTAGE
3 ——— CHA_FAN_SPEED
4 ——— FAN_SPEED_CONTROL

CPU Fan Connector
(4-pin CPU_FAN1)
(see p.7, No. 1)

4 3 2 1

GND
FAN_VOLTAGE
CPU_FAN_SPEED
FAN_SPEED_CONTROL
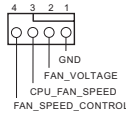
This motherboard pro-
vides a 4-Pin CPU fan
(Quiet Fan) connector.
If you plan to connect a
3-Pin CPU fan, please
connect it to Pin 1-3.

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

12 24

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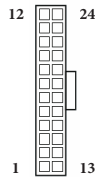
This motherboard pro-
vides a 24-pin ATX power
connector. To use a 20-pin
ATX power supply, please
plug it along Pin 1 and Pin
13.

ATX 12V Power
Connector
(8-pin ATX12V1)
(see p.7, No. 16)

1 4

5 8
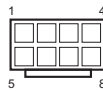
This motherboard
provides a 8-pin ATX 12V
power connector. To use a
4-pin ATX power supply,
please plug it along Pin 1
and Pin 5.
***Warning: Please make
sure that the power cable
connected is for the CPU
and not the graphics
card. Do not plug the
PCIe power cable to this
connector.**

RGB LED Header
(4-pin RGB_LED1)
(see p.7, No. 3)

1 +12V G R B

RGB header is used to connect
RGB LED extension cable which
allows users to choose from vari-
ous LED lighting effects.
**Caution: Never install the RGB
LED cable in the wrong orienta-
tion; otherwise, the cable may
be damaged.**
* Please refer to page 45 for
further instructions on this
header.

Addressable LED Header
(3-pin ADDR_LED1)
(see p.7, No. 2)

1 GND
DO_ADDR
VOUT
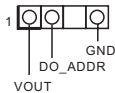
This header is used to connect
Addressable LED extension cable
which allows users to choose
from various LED lighting
effects.
**Caution: Never install the
Addressable LED cable in the
wrong orientation; otherwise,
the cable may be damaged.**
* Please refer to page 46 for
further instructions on this
header.

2.7 M.2_SSD (NGFF) Module Installation Guide (M2_1)

The M.2, also known as the Next Generation Form Factor (NGFF), is a small size and versatile card edge connector that aims to replace mPCIe and mSATA. The Hyper M.2 Socket (M2_1) supports M Key type 2280 M.2 SATA3 6.0 Gb/s module and M.2 PCI Express module up to Gen4x4 (64 Gb/s) (with Matisse) or Gen3x4 (32 Gb/s) (with Renoir).

Installing the M.2_SSD (NGFF) Module
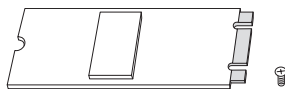
Step 1

Prepare a M.2_SSD (NGFF) module and the screw.
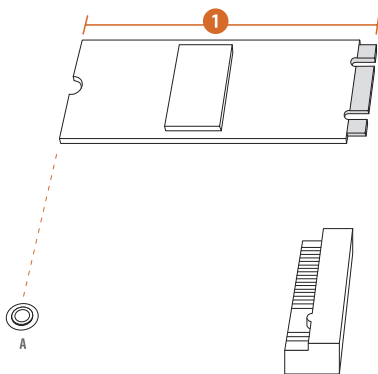
Step 2

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

No.	1
Nut Location	A
PCB Length	8cm
Module Type	Type 2280
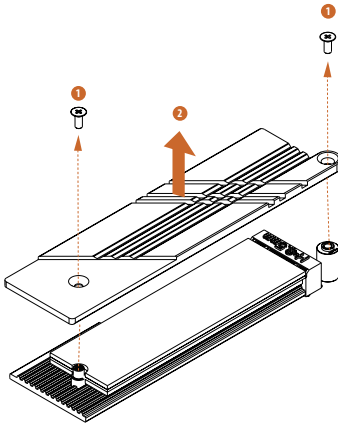
Step 3

Before installing a M.2 (NGFF) 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.
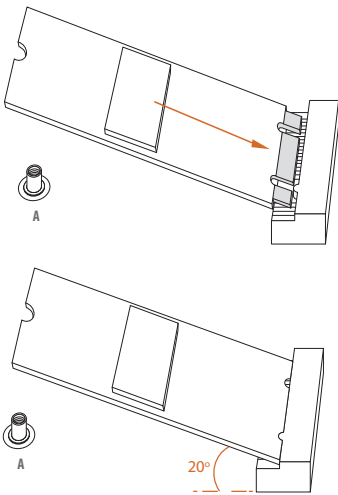
Step 4

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

20°
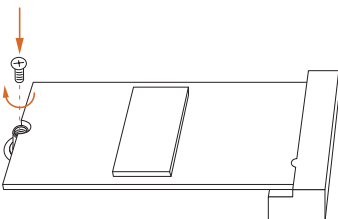
Step 5

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

M.2_SSD (NGFF) Module Support List

Vendor	Interface	P/N
ADATA	SATA3	AXNS330E-32GM-B
ADATA	SATA3	AXNS381E-128GM-B
ADATA	SATA3	AXNS381E-256GM-B
ADATA	SATA3	ASU800NS38-256GT-C
ADATA	SATA3	ASU800NS38-512GT-C
Crucial	SATA3	CT120M500SSD4
Crucial	SATA3	CT240M500SSD4
Intel	SATA3	Intel SSDSCKGW080A401/80G
Kingston	SATA3	SM2280S3
Plextor	PCIe	PX-G256M6e
Plextor	PCIe	PX-G512M6e
Samsung	PCIe x4	XP941-512G (MZHPU512HCGL)
SanDisk	PCIe	SD6PP4M-128G
SanDisk	PCIe	SD6PP4M-256G
Team	SATA3	TM4PS4128GMC105
Team	SATA3	TM4PS4256GMC105
Team	SATA3	TM8PS4128GMC105
Team	SATA3	TM8PS4256GMC105
Transcend	SATA3	TS256GMTS400
Transcend	SATA3	TS512GMTS600
Transcend	SATA3	TS512GMTS800
V-Color	SATA3	VLM100-120G-2280B-RD
V-Color	SATA3	VLM100-240G-2280RGB
V-Color	SATA3	VSM100-240G-2280
V-Color	SATA3	VLM100-240G-2280B-RD
WD	SATA3	WDS100T1B0B-00AS40
WD	SATA3	WDS240G1G0B-00RC30

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

Chapter 3 Software and Utilities Operation

3.1 Installing Drivers

The Support CD that comes with the motherboard contains necessary drivers and useful utilities that enhance the motherboard's features.

Running The Support CD

To begin using the support CD, insert the CD into your CD-ROM drive. The CD automatically displays the Main Menu if "AUTORUN" is enabled in your computer. If the Main Menu does not appear automatically, locate and double click on the file "ASRSETUP.EXE" in the Support CD to display the menu.

Drivers Menu

The drivers compatible to your system will be auto-detected and listed on the support CD driver page. Please click **Install All** or follow the order from top to bottom to install those required drivers. Therefore, the drivers you install can work properly.

Utilities Menu

The Utilities Menu shows the application software that the motherboard supports. Click on a specific item then follow the installation wizard to install it.

3.2 ASRock Motherboard Utility (A-Tuning)

ASRock Motherboard Utility (A-Tuning) is ASRock's multi purpose software suite with a new interface, more new features and improved utilities.

3.2.1 Installing ASRock Motherboard Utility (A-Tuning)

ASRock Motherboard Utility (A-Tuning) can be downloaded from ASRock Live Update & APP Shop. After the installation, you will find the icon "ASRock Motherboard Utility (A-Tuning)" on your desktop. Double-click the "ASRock Motherboard Utility (A-Tuning)" icon, ASRock Motherboard Utility (A-Tuning) main menu will pop up.

3.2.2 Using ASRock Motherboard Utility (A-Tuning)

There are five sections in ASRock Motherboard Utility (A-Tuning) main menu: Operation Mode, OC Tweaker, System Info, FAN-Tastic Tuning and Settings.

Operation Mode

Choose an operation mode for your computer.
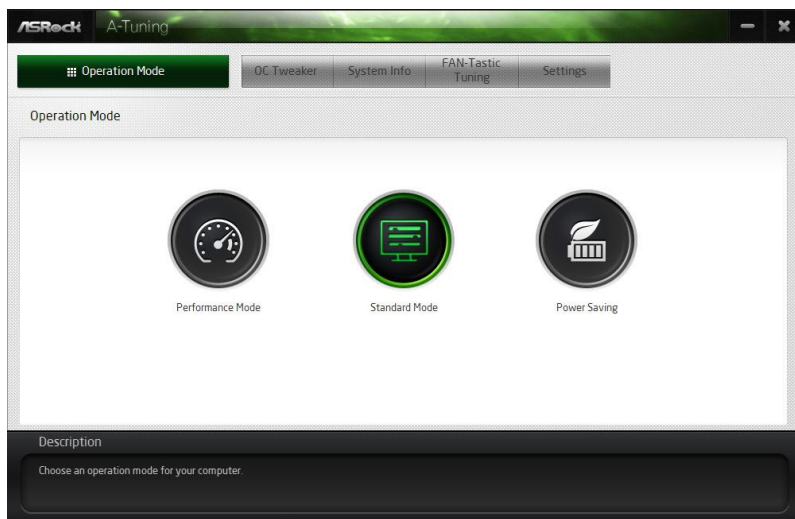
OC Tweaker

Configurations for overclocking the system.
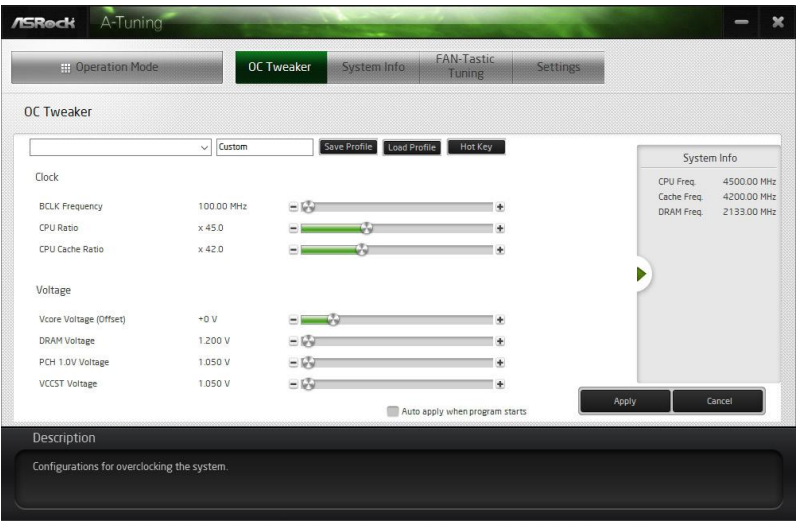
System Info

View information about the system.

*The System Browser tab may not appear for certain models.
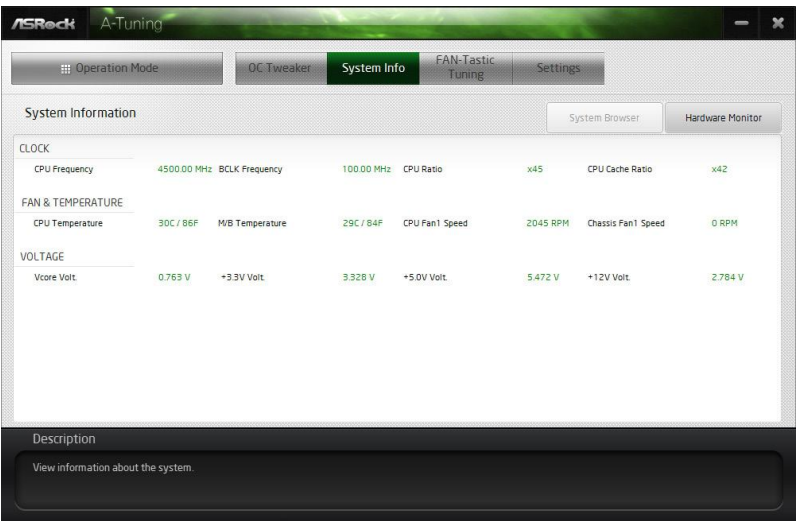
FAN-Tastic Tuning

Configure up to five different fan speeds using the graph. The fans will automatically shift to the next speed level when the assigned temperature is met.
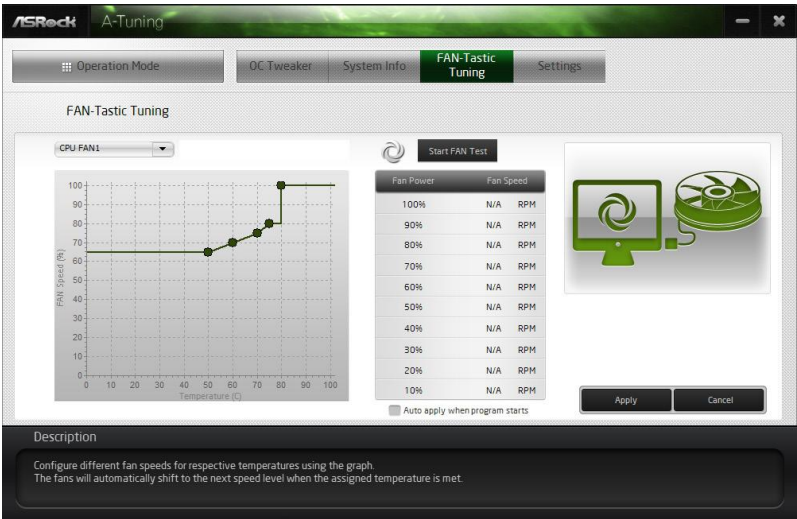
Settings

Configure ASRock ASRock Motherboard Utility (A-Tuning). Click to select "Auto run at Windows Startup" if you want ASRock Motherboard Utility (A-Tuning) to be launched when you start up the Windows operating system.
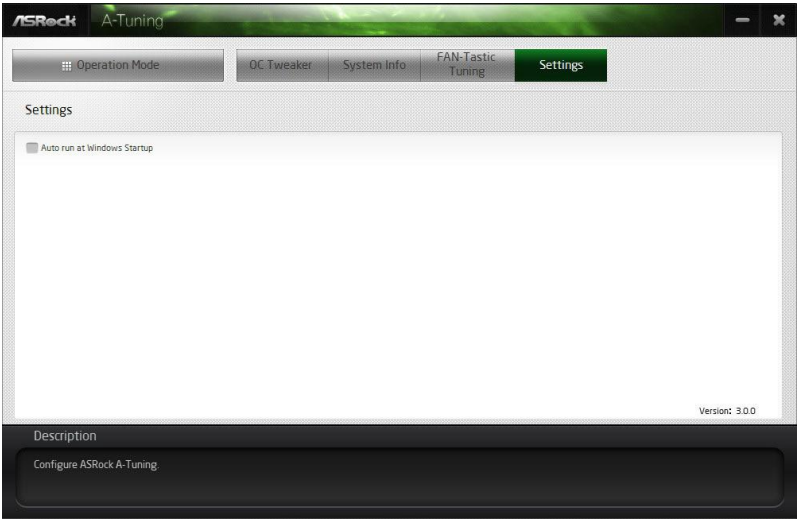
3.3 ASRock Live Update & APP Shop

The ASRock Live Update & APP Shop is an online store for purchasing and downloading software applications for your ASRock computer. You can quickly and easily install various apps and support utilities. With ASRock Live Update & APP Shop, you can optimize your system and keep your motherboard up to date simply with a few clicks.

Double-click ![icon] on your desktop to access ASRock Live Update & APP Shop utility.

You need to be connected to the Internet to download apps from the ASRock Live Update & APP Shop.

3.3.1 UI Overview

Category Panel

Hot News

Information Panel

Category Panel: The category panel contains several category tabs or buttons that when selected the information panel below displays the relative information.

Information Panel: The information panel in the center displays data about the currently selected category and allows users to perform job-related tasks.

Hot News: The hot news section displays the various latest news. Click on the image to visit the website of the selected news and know more.

English

3.3.2 Apps

When the "Apps" tab is selected, you will see all the available apps on screen for you to download.

Installing an App

Step 1

Find the app you want to install.
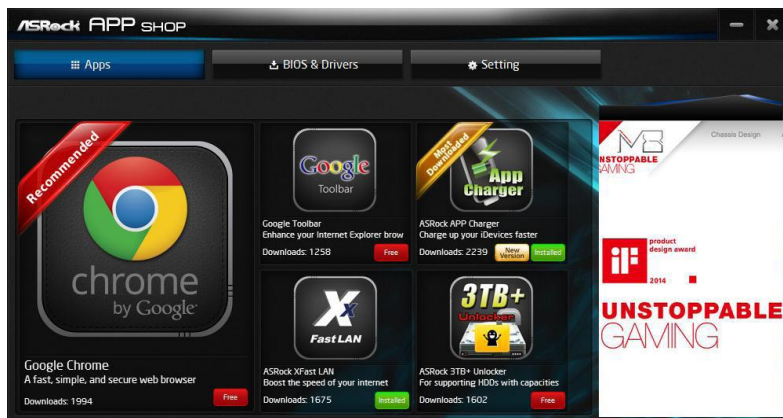
The most recommended app appears on the left side of the screen. The other various apps are shown on the right. Please scroll up and down to see more apps listed.

You can check the price of the app and whether you have already intalled it or not.

Free - The red icon displays the price or "Free" if the app is free of charge.

Installed - The green "Installed" icon means the app is installed on your computer.

Step 2

Click on the app icon to see more details about the selected app.

Step 3

If you want to install the app, click on the red icon [Free] to start downloading.

Step 4

When installation completes, you can find the green "Installed" icon appears on the upper right corner.
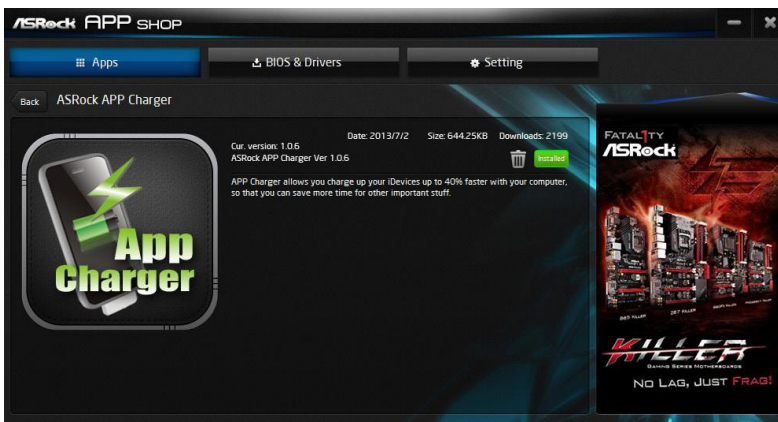
To uninstall it, simply click on the trash can icon 🗑 .
*The trash icon may not appear for certain apps.

Upgrading an App

You can only upgrade the apps you have already installed. When there is an available new version for your app, you will find the mark of "New Version" appears below the installed app icon.

Step 1

Click on the app icon to see more details.

Step 2

Click on the yellow icon to start upgrading.

3.3.3 BIOS & Drivers

Installing BIOS or Drivers

When the "BIOS & Drivers" tab is selected, you will see a list of recommended or critical updates for the BIOS or drivers. Please update them all soon.
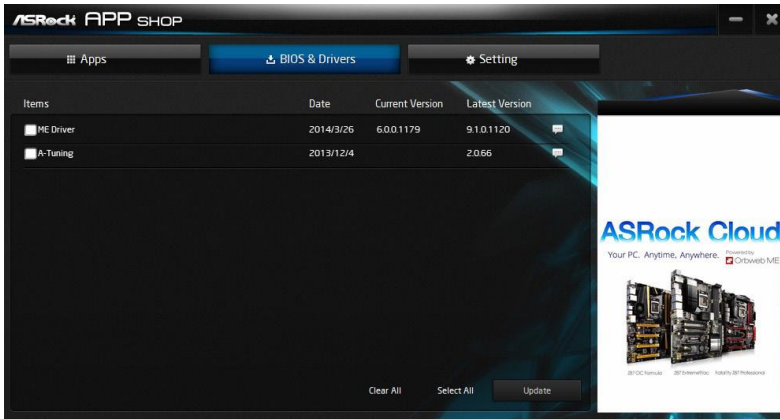
Step 1

Please check the item information before update. Click on 💬 to see more details.

Step 2

Click to select one or more items you want to update.

Step 3

Click Update to start the update process.

3.3.4 Setting

In the "Setting" page, you can change the language, select the server location, and determine if you want to automatically run the ASRock Live Update & APP Shop on Windows startup.
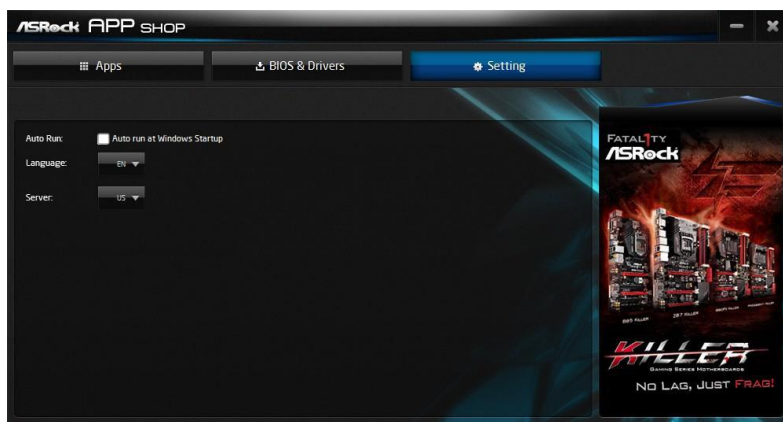
3.4 ASRock Polychrome SYNC

ASRock Polychrome SYNC is a lighting control utility specifically designed for unique individuals with sophisticated tastes to build their own stylish colorful lighting system. Simply by connecting the LED strip, you can customize various lighting schemes and patterns, including Static, Breathing, Strobe, Cycling, Music, Wave and more.

Connecting the LED Strip

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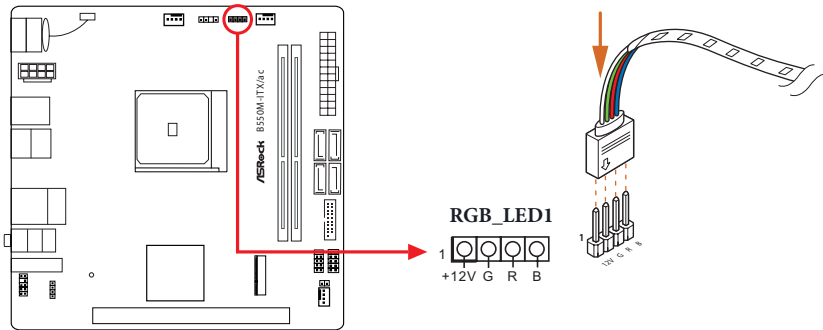
RGB_LED1

1 +12V G R B

1 12V G R B

⚠️
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 strip 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.*

English

45

Connecting the Addressable RGB LED Strip

Connect your Addressable RGB LED strip to the **Addressable LED Header (ADDR_LED1)** on the motherboard.
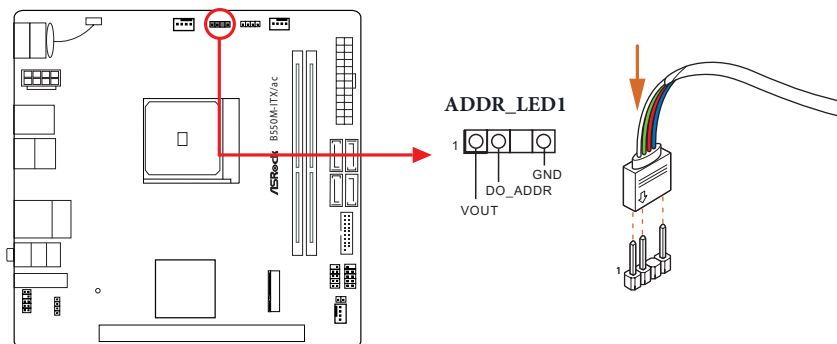
⚠️
1. Never install the RGB LED cable in the wrong orientation; otherwise, the cable may be damaged.
2. Before installing or removing your RGB LED cable, please power off your system and unplug the power cord from the power supply. Failure to do so may cause damages to motherboard components.

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

ASRock Polychrome SYNC Utility

Now you can adjust the RGB LED color through the ASRock Polychrome SYNC Utility. Download this utility from the ASRock Live Update & APP Shop and start coloring your PC style your way!

Drag the tab to customize your preference.

Toggle on/off the RGB LED switch

Select a RGB LED light effect from the drop-down menu.

Sync RGB LED effects for all LED regions of the motherboard
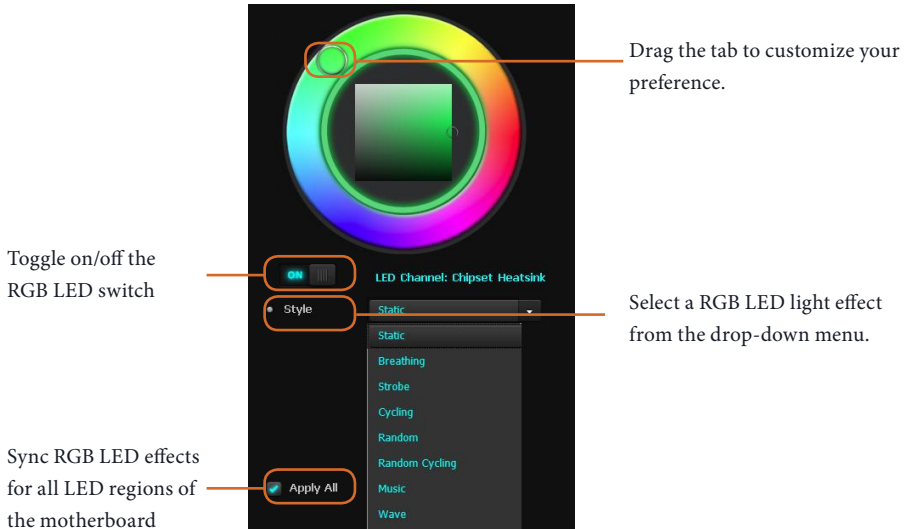
Chapter 4 UEFI SETUP UTILITY

4.1 Introduction

This section explains how to use the UEFI SETUP UTILITY to configure your system. You may run the UEFI SETUP UTILITY by pressing <F2> or <Del> right after you power on the computer, otherwise, the Power-On-Self-Test (POST) will continue with its test routines. If you wish to enter the UEFI SETUP UTILITY after POST, restart the system by pressing <Ctl> + <Alt> + <Delete>, or by pressing the reset button on the system chassis. You may also restart by turning the system off and then back on.

> *Because the UEFI software is constantly being updated, the following UEFI setup screens and descriptions are for reference purpose only, and they may not exactly match what you see on your screen.*

4.1.1 UEFI Menu Bar

The top of the screen has a menu bar with the following selections:

Main	For setting system time/date information
OC Tweaker	For overclocking configurations
Advanced	For advanced system configurations
Tool	Useful tools
H/W Monitor	Displays current hardware status
Security	For security settings
Boot	For configuring boot settings and boot priority
Exit	Exit the current screen or the UEFI Setup Utility

4.1.2 Navigation Keys

Use <←> key or <→> key to choose among the selections on the menu bar, and use < ↑ > key or < ↓ > key to move the cursor up or down to select items, then press <Enter> to get into the sub screen. You can also use the mouse to click your required item.

Please check the following table for the descriptions of each navigation key.

Navigation Key(s)	Description
+ / -	To change option for the selected items
<Tab>	Switch to next function
<PGUP>	Go to the previous page
<PGDN>	Go to the next page
<HOME>	Go to the top of the screen
<END>	Go to the bottom of the screen
<F1>	To display the General Help Screen
<F7>	Discard changes and exit the SETUP UTILITY
<F9>	Load optimal default values for all the settings
<F10>	Save changes and exit the SETUP UTILITY
<F12>	Print screen
<ESC>	Jump to the Exit Screen or exit the current screen

4.2 Main Screen

When you enter the UEFI SETUP UTILITY, the Main screen will appear and display the system overview.
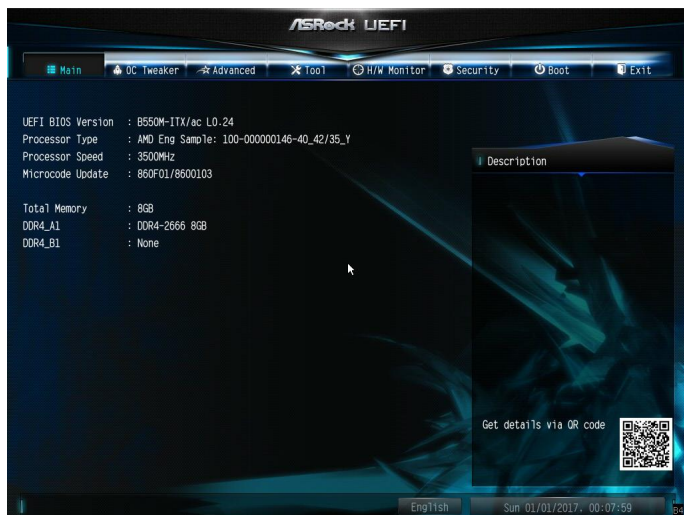
4.3 OC Tweaker Screen

In the OC Tweaker screen, you can set up overclocking features.

🔍⁺ *Because the UEFI software is constantly being updated, the following UEFI setup screens and descriptions are for reference purpose only, and they may not exactly match what you see on your screen.*

CPU Frequency and Voltage(VID) Change

If this item is set to [Manual], the multiplier and voltage will be set based on user selection. Final result is depending on the CPU's capability.

CPU Core (Per CCX)

CPU Voltage

Specifies a custom CPU core voltage (mV), Should be combined with a custom CPU core frequency. Power saving features for idle cores (e.g. cc6 sleep) remain active.

CCD0

CCX0 Frequency (MHz)

Use this item to adjust CCX0 Frequency.

CCX1 Frequency (MHz)

Use this item to adjust CCX1 Frequency.

CCD1

CCX0 Frequency (MHz)

Use this item to adjust CCX0 Frequency.

CCX1 Frequency (MHz)

Use this item to adjust CCX1 Frequency.

SoC/Uncore OC Voltage(VID)

Specify the SoC/Uncore voltage (VDD_SOC) in mV to support memory and Infinity Fabric overclocking. VDD_SOC also determines the GPU voltage on processors with integrated graphics. "SoC/Uncore OC Mode" needs to be enabled to force this voltage.

CLD0 VDDP Voltage Control

AMD Overclocking Setup VDDP is a voltage for the DDR4 bus signaling (PHY), and it is derived from your DRAM Voltage (VDDIO_Mem). As a result, VDDP voltage in mV can approach but not exceed your DRAM Voltage.

CLD0 VDDG CCD Voltage Control

AMD Overclocking Setup VDDG CCD represents voltage for the data portion of the Infinity Fabric. It is derived from the CPU SoC/Uncore Voltage (VDD_SOC). VDDG can approach but not exceed VDD_SOC.

CLD0 VDDG IOD Voltage Control

AMD Overclocking Setup VDDG IOD represents voltage for the data portion of the Infinity Fabric. It is derived from the CPU SoC/Uncore Voltage (VDD_SOC). VDDG can approach but not exceed VDD_SOC.

DRAM Information

Load XMP Setting

Load XMP settings to overclock the memory and perform beyond standard specifications.

DRAM Frequency

If [Auto] is selected, the motherboard will detect the memory module(s) inserted and assign the appropriate frequency automatically. Setting DRAM Frequency can adjust DRAM Timing.

2.50V Voltage

Configure the voltage for the 2.50V Voltage.

Infinity Fabric Frequency and Dividers

AMD Overclocking Setup Set Infinity Fabric frequency (FCLK). Auto: FCLK = MCLK. Manual: FCLK must be less than or equal to MCLK for best performance in most cases. Latency penalties are incurred if FCLK and MCLK are mismatched, but sufficiently high MCLK can negate or overcome this penalty.

DRAM Timing Configuration

External Voltage Settings and Load-line Calibration

CPU Vcore Voltage

Input voltage for the processor by the external voltage refulator.

CPU Load-Line Calibration

CPU Load-Line Calibration helps prevent CPU voltage droop when the system is under heavy loading.

VDDCR_SOC Voltage

Configure the voltage for the VID-requested VDDCR_SOC supply level.

VDDCR_SOC Load-Line Calibration

CPU VDDCR_SOC Load-Line Calibration helps prevent VDDCR_SOC voltage droop when the system is under heavy loading.U

VPPM

Configure the voltage for the VPPM.

VDDP

Configure the voltage for the VDDP.

+1.8 Voltage

Configure the voltage for the +1.8V.

DRAM Voltage

Configure the voltage for the DRAM.

Chipset 1.05V Voltage

Configure the voltage for the chipset 1.05V voltage.

Save User Default

Type a profile name and press enter to save your settings as user default.

English

Load User Default

Load previously saved user defaults.

Save User UEFI Setup Profile to Disk

Save current UEFI settings as an user default profile to disk.

Load User UEFI Setup Profile to Disk

Load previously saved user defaults from the disk.

4.4 Advanced Screen

In this section, you may set the configurations for the following items: CPU Configuration, Onboard Devices Configuration, Storage Configuration, ACPI Configuration, Trusted Computing , AMD PBS and AMD CBS.
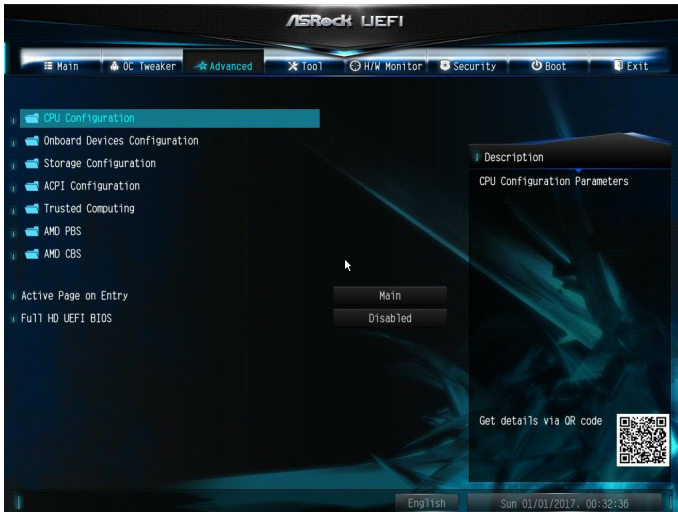
Setting wrong values in this section may cause the system to malfunction.

UEFI Configuration

Active Page on Entry

Select the default page when entering the UEFI setup utility.

Full HD UEFI

When [Auto] is selected, the resolution will be set to 1920 x 1080 if the monitor supports Full HD resolution. If the monitor does not support Full HD resolution, then the resolution will be set to 1024 x 768. When [Disable] is selected, the resolution will be set to 1024 x 768 directly.

4.4.1 CPU Configuration

PSS Support

Use this to enable or disable the generation of ACPI_PPC, _PSS, and _PCT objects.

NX Mode

Use this to enable or disable NX mode.

SVM Mode

When this is set to [Enabled], a VMM (Virtual Machine Architecture)can utilize the additional hardware capabilities provided by AMD-V. The default value is [Enabled]. Coniguration options: [Enabled] and [Disabled].

SMT Mode

This item can be used to disable symmetric multithreading. To re-enable SMT, a power cycle is needed after selecting [Auto].
Warning: S3 is not supported on systems where SMT is disabled.

AMD fTPM Switch

Use this to enable or disable AMD CPU fTPM.

4.4.2 Onboard Devices Configuration

Turn On Onboard LED in S5

Turn on/off the LED in the ACPI S5 state.

SR-IOV Support

Enable/disable the SR-IOV (Single Root IO Virtualization Support) if the system has SR-IOV capable PCIe devices.

UMA Frame buffer Size (Only for processor with integrated graphics)

This item allows you to set the size of the UMA frame buffer.

Gnb Hd Audio

Enable/disable onboard HD audio. Set to Auto to enable onboard HD audio and automatically disable it when a sound card is installed.

Front Panel

Enable/disable front panel HD audio.

Restore on AC/Power Loss

Select the power state after a power failure. If [Power Off] is selected, the power will remain off when the power recovers. If [Power On] is selected, the system will start to boot up when the power recovers.

WAN Radio

Configure the WiFi module's connectivity.

BT On/Off

Enable/disable the bluetooth.

PS2 Y-Cable

Enable the PS2 Y-Cable or set this option to Auto.

4.4.3 Storage Configuration

SATA Mode

AHCI: Supports new features that improve performance.

RAID: Combine multiple disk drives into a logical unit.

SATA Hot Plug

Enable/disable the SATA Hot Plug function.

4.4.4 ACPI Configuration
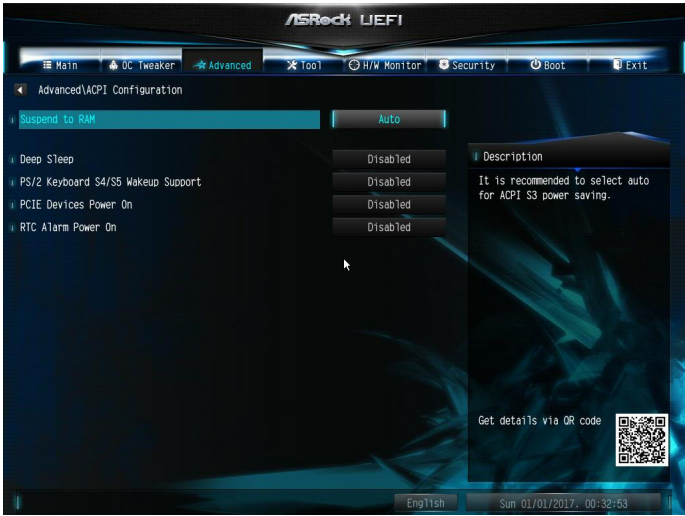
Suspend to RAM

It is recommended to select auto for ACPI S3 power saving.

Deep Sleep

Configure deep sleep mode for power saving when the computer is shut down. We recommend disabling Deep Sleep for better system compatibility and stability.

PS/2 Keyboard S4/S5 Wakeup Support

Allow the system to be waked up by a PS/2 Keyboard in S4/S5.

PCIE Devices Power On

Allow the system to be waked up by a PCIE device and enable wake on LAN.

RTC Alarm Power On

Allow the system to be waked up by the real time clock alarm. Set it to By OS to let it be handled by your operating system.

4.4.5 Trusted Computing
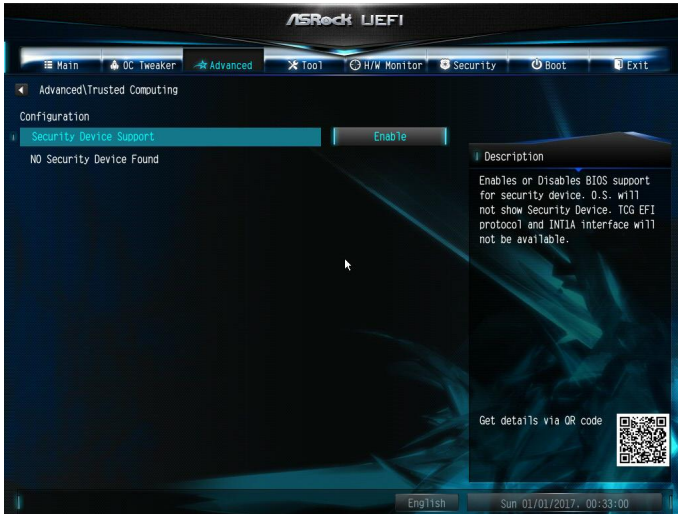
Security Device Support

Enable or disable BIOS support for security device.

4.4.6 AMD PBS

The AMD PBS menu accesses AMD specific features.

4.4.7 AMD CBS

The AMD CBS menu accesses AMD specific features.

4.5 Tools
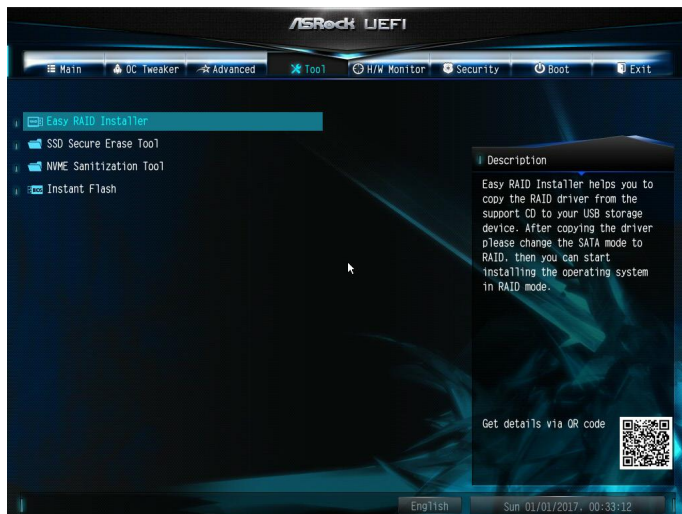
Easy RAID Installer

Easy RAID Installer helps you to copy the RAID driver from the support CD to your USB storage device. After copying the drivers please change the SATA mode to RAID, then you can start installing the operating system in RAID mode.

SSD Secure Erase Tool

All the SSD's listed that supports Secure Erase function.

NVME Sanitization Tool

After you Sanitize SSD, all user data will be permanently destroyed on the SSD and cannot be recovered.

Instant Flash

Save UEFI files in your USB storage device and run Instant Flash to update your UEFI.

4.6 Hardware Health Event Monitoring Screen

This section allows you to monitor the status of the hardware on your system, including the parameters of the CPU temperature, motherboard temperature, fan speed and voltage.

CPU FAN1 Setting

Select a fan mode for CPU Fan 1, or choose Customize to set 5 CPU temperatures and assign a respective fan speed for each temperature.

CPU FAN1 Temp Source

Select a fan temperature source for CPU Fan 1.

FAN Configuration

Chassis Fan 1 Control Mode

Select PWM mode or DC mode for Chassis Fan 1.

Chassis Fan 1 Setting

Select a fan mode for Chassis Fan 1, or choose Customize to set 5 CPU temperatures and assign a respective fan speed for each temperature.

Chassis Fan 1 Temp Source

Select a fan temperature source for Chassis Fan 1.

CHA_FAN2/WP Switch

Select CHA_FAN2 or Water Pump mode.

Chassis Fan 2 Control Mode

Select PWM mode or DC mode for Chassis Fan 2.

Chassis Fan 2 Setting

Select a fan mode for Chassis Fan 2, or choose Customize to set 5 CPU temperatures and assign a respective fan speed for each temperature.

Chassis Fan 2 Temp Source

Select a fan temperature source for Chassis Fan 2.

Fan-Tastic

Select a fan mode for Fan, or choose Customize to set 5 CPU temperatures and assign a respective fan speed for each temperature.

FanTuning

Detect the lowest fan speed in the system. Iy may take 3-5 minutes to complete.

4.7 Security Screen

In this section you may set or change the supervisor/user password for the system. You may also clear the user password.

Supervisor Password

Set or change the password for the administrator account. Only the administrator has authority to change the settings in the UEFI Setup Utility. Leave it blank and press enter to remove the password.
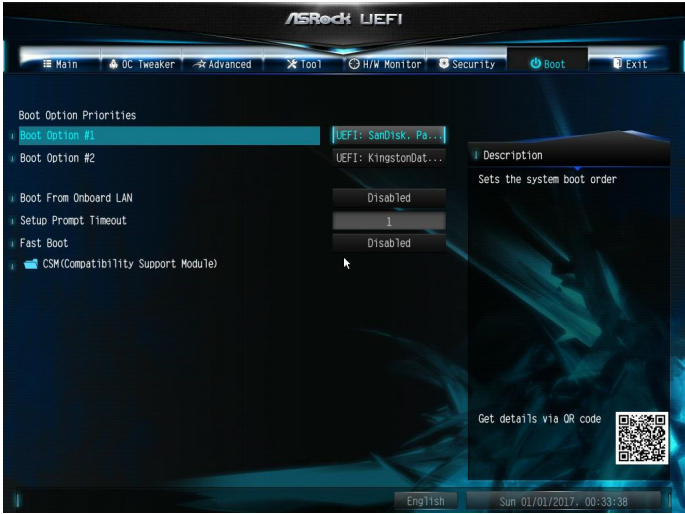
User Password

Set or change the password for the user account. Users are unable to change the settings in the UEFI Setup Utility. Leave it blank and press enter to remove the password.

Secure Boot

Enable to support Secure Boot.

4.8 Boot Screen

This section displays the available devices on your system for you to configure the boot settings and the boot priority.

Boot From Onboard LAN

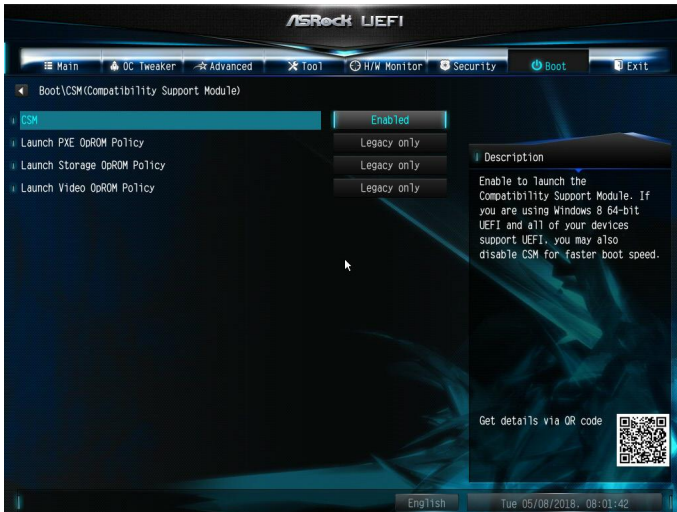Allow the system to be waked up by the onboard LAN.

Setup Prompt Timeout

Configure the number of seconds to wait for the setup hot key.

Fast Boot

Fast Boot minimizes your computer's boot time. In fast mode you may not boot from an USB storage device.

CSM (Compatibility Support Module)

CSM

Enable to launch the Compatibility Support Module. Please do not disable unless you're running a WHCK test.

Launch PXE OpROM Policy

Select UEFI only to run those that support UEFI option ROM only. Select Legacy only to run those that support legacy option ROM only. Select Do not launch to not execute both legacy and UEFI option ROM.

Launch Storage OpROM Policy

Select UEFI only to run those that support UEFI option ROM only. Select Legacy only to run those that support legacy option ROM only. Select Do not launch to not execute both legacy and UEFI option ROM.

Bootup Num-Lock

Select whether Num Lock should be turned on or off when the system boots up.

Full Screen Logo
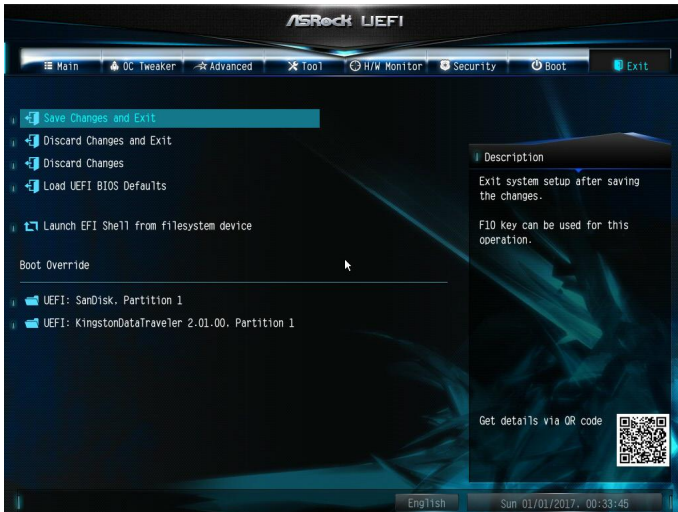
Enable to display the boot logo or disable to show normal POST messages.

AddOn ROM Display

Enable AddOn ROM Display to see the AddOn ROM messages or configure the AddOn ROM if you've enabled Full Screen Logo. Disable for faster boot speed.

4.9 Exit Screen

Save Changes and Exit

When you select this option the following message, "Save configuration changes and exit setup?" will pop out. Select [OK] to save changes and exit the UEFI SETUP UTILITY.

Discard Changes and Exit

When you select this option the following message, "Discard changes and exit setup?" will pop out. Select [OK] to exit the UEFI SETUP UTILITY without saving any changes.

Discard Changes

When you select this option the following message, "Discard changes?" will pop out. Select [OK] to discard all changes.

Load UEFI BIOS Defaults

Load UEFI BIOS Default values for all the setup questions. The F9 key can be used for this operation.

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 http://www.asrock.com/support/tsd.asp

ASRock Incorporation

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U.S.A.

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DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2.1077(a)

FC

Responsible Party Name: ASRock Incorporation

Address: 13848 Magnolia Ave, Chino, CA91710

Phone/Fax No: +1-909-590-8308/+1-909-590-1026

hereby declares that the product

Product Name : Motherboard

Model Number : B550M-ITX/ac

Conforms to the following specifications:

☒ FCC Part 15, Subpart B, Unintentional Radiators

Supplementary Information:

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.

Representative Person's Name: __James__

Signature :

Date : __May 12, 2017__

EU Declaration of Conformity /ISRock®

For the following equipment:

Motherboard

(Product Name)

B550M-ITX/ac / ASRock

(Model Designation / Trade Name)

ASRock Incorporation

(Manufacturer Name)

2F., No.37, Sec. 2, Jhongyang S. Rd., Beitou District, Taipei City 112, Taiwan (R.O.C.)

(Manufacturer Address)

☒ **EMC —Directive 2014/30/EU (from April 20th, 2016)**

☐ EN 55022:2010/AC:2011 Class B   ☒ EN 55024:2010/A1:2015
☒ EN 55032:2012+AC:2013 Class B   ☒ EN 61000-3-3:2013
☒ EN 61000-3-2:2014

☒ **RED—Directive 2014/53/EU**

☐ EN 300 328 V2.1.1   ☒ EN 301 489-17 V3.1.1
☐ EN 301 893 V2.1.1   ☐ EN 301 489-3 V2.1.1
☐ EN 300 220 V3.1.1

☐ **LVD —Directive 2014/35/EU (from April 20th, 2016)**

☐ EN 60950-1 : 2011+ A2: 2013   ☐ EN 60950-1 : 2006/A12: 2011

☒ RoHS — Directive 2011/65/EU
☒ CE marking

C E

(EU conformity marking)

ASRock EUROPE B.V.

(Company Name)

Bijsterhuizen 1111 6546 AR Nijmegen The Netherlands

(Company Address)

Person responsible for making this declaration:

(Name, Surname)

A.V.P

(Position / Title)

June 26, 2020

(Date)

P/N: 15G062238000AK V1.0