ROG STRIX B460-G GAMING



E16420 First Edition March 2020

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## Safety information

## **Electrical safety**

- To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the system.
- When adding or removing devices to or from the system, ensure that the power cables for the devices are unplugged before the signal cables are connected. If possible, disconnect all power cables from the existing system before you add a device.
- Before connecting or removing signal cables from the motherboard, ensure that all
  power cables are unplugged.
- Seek professional assistance before using an adapter or extension cord. These
  devices could interrupt the grounding circuit.
- Ensure that your power supply is set to the correct voltage in your area. If you are not sure about the voltage of the electrical outlet you are using, contact your local power company.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.

# **Operation safety**

- Before installing the motherboard and adding devices on it, carefully read all the manuals that came with the package.
- Before using the product, ensure all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- To avoid short circuits, keep paper clips, screws, and staples away from connectors, slots, sockets and circuitry.
- Avoid dust, humidity, and temperature extremes. Do not place the product in any area where it may become wet.
- Place the product on a stable surface.
- If you encounter technical problems with the product, contact a qualified service technician or your retailer.
- Your motherboard should only be used in environments with ambient temperatures between 0°C and 40°C.

# About this guide

This user guide contains the information you need when installing and configuring the motherboard.

## How this guide is organized

This guide contains the following parts:

#### • Chapter 1: Product Introduction

This chapter describes the features of the motherboard and the new technology it supports. It includes description of the switches, jumpers, and connectors on the motherboard.

#### Chapter 2: Basic Installation

This chapter lists the hardware setup procedures that you have to perform when installing system components.

#### Chapter 3: BIOS and RAID Support

This chapter tells how to boot into the BIOS, upgrade BIOS using the EZ Flash Utility and support on RAID.

#### Where to find more information

Refer to the following sources for additional information and for product and software updates.

#### 1. ASUS website

The ASUS website (www.asus.com) provides updated information on ASUS hardware and software products.

#### 2. Optional documentation

Your product package may include optional documentation, such as warranty flyers, that may have been added by your dealer. These documents are not part of the standard package.

## Conventions used in this guide

To ensure that you perform certain tasks properly, take note of the following symbols used throughout this manual.



**CAUTION:** Information to prevent damage to the components and injuries to yourself when trying to complete a task.



**IMPORTANT:** Instructions that you MUST follow to complete a task.



**NOTE:** Tips and additional information to help you complete a task.

	Intel® Socket LGA 1200 for 10th Gen Intel® Core™, Pentium® Gold and Celeron® processors*	
	Supports Intel® 14 nm CPU	
СРИ	Supports Intel® Turbo Boost Technology 2.0 and Intel® Turbo Boost Max Technology 3.0**	
	* Refer to www.asus.com for CPU support list. ** Intel® Turbo Boost Max Technology 3.0 support depends on the CPU types.	
Chipset	Intel® B460 Chipset	
	4 x DIMM, Max. 128GB, DDR4 2933 / 2800 / 2666 / 2400 / 2133 MHz Non-ECC, Un-buffered Memory*	
	Dual Channel Memory Architecture	
	Supports Intel® Extreme Memory Profile (XMP)	
Memory	OptiMem	
	* For 10th Gen Intel® processors, only Core™ i9/i7 CPUs support 2933/2800/2666/2400/2133 natively, others will run at the maximum transfer rate of DDR4 2666MHz.	
	** Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).	
	1 x DisplayPort 1.4*	
	1 x HDMI™ 1.4b	
Graphics	* Support DisplayPort 1.4 with max. resolution of 4096 x 2304 @60Hz. Please refer to www.intel.com for any update.	
	** Graphics specifications may vary between CPU types.	
	Intel® 10 <sup>th</sup> Gen Processors	
	1 x PCle 3.0 x16 slots (support x16 mode)*	
	Intel® B460 Chipset	
Expansion Slots	1 x PCle 3.0 x16 slot (max. at x4 mode)	
	1 x PCle 3.0 x1 slots	
	<ul> <li>PCIEX16_2 shares bandwidth with PCIEX1. When PCIEX16_2 runs x4 mode, PCIEX1 will be disabled. When PCIEX1 runs x1 mode, PCIEX16_2 runs x2 mode.</li> </ul>	
Multi-GPU support	Supports AMD 2-Way CrossFireX™ Technology	
	Total supports 2 x M.2 slots and 6 x SATA 6Gb/s ports	
	Intel® B460 Chipset	
	M.2_1 slot (Key M), type 2242/2260/2280 (supports PCIe 3.0 x4 & SATA modes)*	
Storage	M.2_2 slot (Key M), type 2242/2260/2280 (supports PCle 3.0 x4 mode)	
Storage	6 x SATA 6Gb/s ports	
	M.2_2 supports Intel® Rapid Storage Technology	
	Supports Raid 0,1,5,10	
	Intel® Optane™ Memory Ready	
	* The M.2_1 socket shares bandwidth with SATA6G_1 port when using M.2 SATA mode device.	
Ethernet	1 x Intel® I219-V 1Gb Ethernet	
Lancinet	ASUS LANGuard	
Wireless & Bluetooth	M.2 slot (Key E) (Wi-Fi module is sold separately)	

(continued on the next page)

	Rear USB (Total 7 ports)
	1 x USB 3.2 Gen 2x2 port (1 x USB Type-C®)
USB	6 x USB 3.2 Gen 1 ports (6 x Type-A)
USD	Front USB (Total 6 ports)
	1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports
	2 x USB 2.0 headers support additional 4 USB 2.0 ports
	ROG SupremeFX 8-Channel High Definition Audio CODEC S1220A
	- Impedance sense for front and rear headphone outputs
	- Jack-detection, Multi-streaming, Front Panel Jack-retasking
	- High quality 120 dB SNR stereo playback output and 113 dB SNR recording input
	- Supports up to 32-Bit/192kHz playback*
	Audio Features
Audio	- SupremeFX Shielding Technology
	- Dual OP Amplifiers
	- LED-illuminated audio trace path design
	- Rear audio USB Type-C® port
	- Premium Japanese audio capacitors
	- Audio cover
	<ul> <li>Due to limitations in HDA bandwidth, 32-Bit/192kHz is not supported for 8-Channel audio.</li> </ul>
	1 x USB 3.2 Gen 2x2 port (1 x USB Type-C®)
	6 x USB 3.2 Gen 1 ports (6 x Type-A)
	1 x USB 2.0 port (1 x Audio USB Type-C®)
Back Panel I/O Ports	1 x DisplayPort
Dack Fallel I/O Folks	1 x HDMI™ port
	1 x Intel® I219-V 1Gb Ethernet port
	5 x Audio jacks
	1 x BIOS FlashBack™ button
	Fan and cooling related
	1 x 4-pin CPU Fan header
	1 x 4-pin AIO Pump header
	2 x 4-pin Chassis Fan headers
	Power related
	1 x 24-pin Main Power connector
Internal I/O connectors	1 x 8-pin +12V Power connector
	Storage related
	2 x M.2 slots (Key M)
	6 x SATA 6Gb/s ports
	USB
	1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports
	2 x USB 2.0 headers support additional 4 USB 2.0 ports

(continued on the next page)

	Miscellaneous
	1 x AURA Addressable Gen 2 header
	1 x AURA RGB header
	1 x Clear CMOS header
Internal I/O connectors	1 x COM Port header
	1 x Front Panel Audio header (AAFP)
	1 x M.2 slot (Key E)
	1 x S/PDIF Out header
	1 x 20-3 pin System Panel header with Chassis intrude function
	ASUS Q-Design
	- ASUS Q-DIMM
	- ASUS Q-LED (CPU [red], DRAM [yellow], VGA [white], Boot Device [yellow green])
	- ASUS Q-Slot
	ASUS Thermal Solution
	- Aluminum M.2 heatsink
	ASUS EZ DIY
	- BIOS FlashBack™ button
Special Features	- BIOS FlashBack™ LED
	- Clear CMOS header
	- Pre-mounted I/O shield
	- SafeSlot
	AURA Sync
	- Standard RGB header
	- Addressable Gen 2 RGB header
	Onboard red LED lighting accent
	Rear audio USB Type-C <sup>®</sup> connector
	ROG Exclusive Software
	- RAMCache III
	- ROG CPU-Z
	- GameFirst VI
Software Features	- Sonic Studio III + Sonic Studio Virtual Mixer
	- Sonic Radar III
	- DTS® Sound Unbound
	- Overwolf
	- Anti-virus software

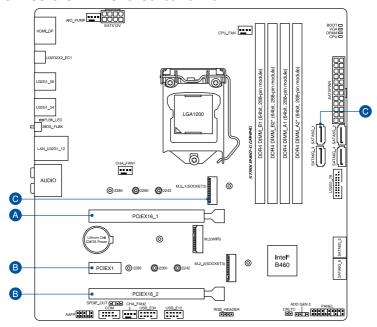
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	ASUS Exclusive Software
	Armoury Crate
	- Aura Creator
	- Aura Sync
	Al Suite 3:
	- Performance And Power Saving Utility
	EPU
	Digi+ VRM
Software Features	Fan Xpert Xpert 4
Software reatures	TurboV EVO
	- EZ update
	Al Charger
	WinRAR
	UEFI BIOS
	ASUS EZ DIY
	- ASUS CrashFree BIOS 3
	- ASUS EZ Flash 3
	- ASUS UEFI BIOS EZ Mode
BIOS	128 Mb Flash ROM, UEFI AMI BIOS
Manageability	WOL by PME, PXE
Operating System	Windows® 10 - 64 bit
Form Factor	Micro ATX Form Factor
FOITH Factor	9.6 inch x 9.6 inch ( 24.4 cm x 24.4 cm)



Specifications are subject to change without notice. Please refer to the ASUS website for the latest specifications.

# Connectors with shared bandwidth



Configuration			1
Α	PCIEX16_1	X.	16
Con	figuration	1	2
	PCIEX16_2	x4	x2
В	PCIEX1	-	x1
Con	figuration	1	2
	M.2_1	SATA mode	PCIe mode
С	SATA6G_1	Disabled	V

# Package contents

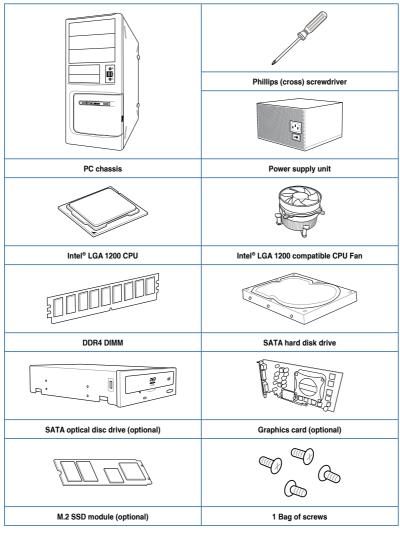
Check your motherboard package for the following items.

Motherboard	1 x ROG STRIX B460-G GAMING motherboard
	1 x Addressable RGB extension cable
Cables	2 x SATA 6Gb/s cables
	1 x ROG audio USB Type-C® cable
	1 x Cable ties pack
	1 x M.2 Rubber Package
Miscellaneous	1 x M.2 SSD screw package
Miscellaneous	1 x M.2 Key E screw package
	1 x ROG Strix stickers
	1 x ROG Strix thank you card
Installation Media	1 x Support DVD
Documentation	1 x User manual



If any of the above items is damaged or missing, contact your retailer.

# Installation tools and components





The tools and components in the table above are not included in the motherboard package.

**Product Introduction** 

# 1

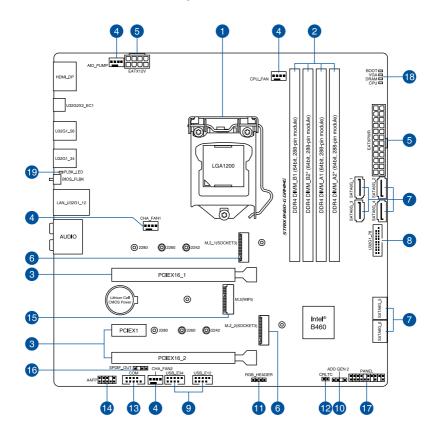
## 1.1 Before you proceed

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



- Unplug the power cord from the wall socket before touching any component.
- Before handling components, use a grounded wrist strap or touch a safely grounded object or a metal object, such as the power supply case, to avoid damaging them due to static electricity.
- Hold components by the edges to avoid touching the ICs on them.
- Whenever you uninstall any component, place it on a grounded antistatic pad or in the bag that came with the component.
- Before you install or remove any component, ensure that the ATX power supply is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard, peripherals, or components.

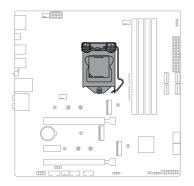
# 1.2 Motherboard layout

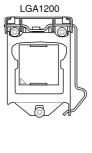


Layout contents	Page
1. CPU socket	1-4
2. DIMM slots	1-5
3. Expansion slots	1-7
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5. Power connectors	1-10
6. M.2 slot	1-11
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13. COM Port header	1-17
14. Front Panel Audio header	1-17
15. M.2 slot (Key E)	1-18
16. S/PDIF Out header	1-18
17. System Panel header	1-19
18. Q-LEDs	1-20
19. FlashBack™ LED	1-20

#### 1. CPU socket

The motherboard comes with a LGA1200 socket designed for 10<sup>th</sup> Gen Intel<sup>®</sup> Core<sup>™</sup>, Pentium<sup>®</sup> Gold and Celeron<sup>®</sup> processors.







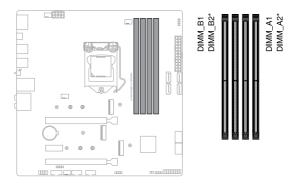
- Ensure that you install the correct CPU designed for LGA1200 socket only. DO NOT install a CPU designed for other sockets on the LGA1200 socket.
- The CPU fits in only one correct orientation. DO NOT force the CPU into the socket to prevent bending the connectors on the socket and damaging the CPU.
- Ensure that all power cables are unplugged before installing the CPU.
- Upon purchase of the motherboard, ensure that the PnP cap is on the socket and
  the socket contacts are not bent. Contact your retailer immediately if the PnP cap
  is missing, or if you see any damage to the PnP cap/socket contacts/motherboard
  components. ASUS will shoulder the cost of repair only if the damage is shipment/
  transit-related.
- Keep the cap after installing the motherboard. ASUS will process Return Merchandise Authorization (RMA) requests only if the motherboard comes with the cap on the LGA1200 socket.
- The product warranty does not cover damage to the socket contacts resulting from incorrect CPU installation/removal, or misplacement/loss/incorrect removal of the PnP cap.

#### 2. DIMM slots

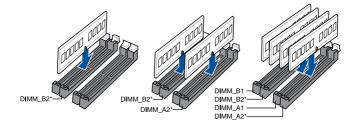
The motherboard comes with Dual Inline Memory Modules (DIMM) slots designed for DDR4 (Double Data Rate 4) memory modules.



A DDR4 memory module is notched differently from a DDR, DDR2, or DDR3 module. DO NOT install a DDR, DDR2, or DDR3 memory module to the DDR4 slot.



## **Recommended memory configurations**



#### **Memory configurations**

You may install 4 GB, 8 GB, 16 GB, and 32 GB unbuffered and non-ECC DDR4 DIMMs into the DIMM sockets.



You may install varying memory sizes in Channel A and Channel B. The system maps the total size of the lower-sized channel for the dual-channel configuration. Any excess memory from the higher-sized channel is then mapped for single-channel operation.

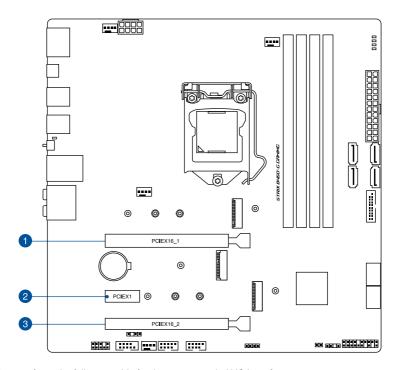


- The default memory operation frequency is dependent on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module.
   Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.
- For system stability, use a more efficient memory cooling system to support a full memory load or overclocking condition.
- Always install the DIMMS with the same CAS Latency. For an optimum compatibility, we recommend that you install memory modules of the same version or data code (D/C) from the same vendor. Check with the vendor to get the correct memory modules.
- Visit the ASUS website for the latest QVL.

#### 3. Expansion slots



Unplug the power cord before adding or removing expansion cards. Failure to do so may cause you physical injury and damage motherboard components.



Please refer to the following table for the recommended VGA configuration.

## **Recommended VGA configuration**

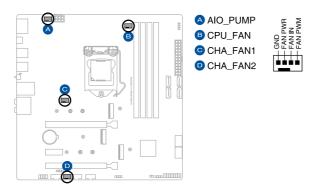
Slot Description		Single VGA	
1.	PCle 3.0 x16_1	x16	
3.	PCle 3.0 x16_2	x4	



- We recommend that you provide sufficient power when running CrossFireX<sup>™</sup> mode.
- Ensure to connect the 8-pin power plug when running CrossFireX<sup>™</sup> mode.
- Connect a chassis fan to the chassis fan connectors when using multiple graphics cards for better thermal environment.

#### 4. Fan and Pump headers

The Fan and Pump headers allow you to connect fans or pumps to cool the system.





- DO NOT forget to connect the fan cables to the fan headers. Insufficient air flow inside the system may damage the motherboard components. These are not jumpers! Do not place jumper caps on the fan headers!
- Ensure the cable is fully inserted into the header.

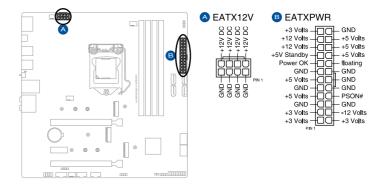


For water cooling kits, connect the pump connector to the AIO\_PUMP header.

Header	Max. Current	Max. Power	Default Speed	Shared Control
CPU_FAN	1A	12W	Q-Fan Controlled	<del>-</del>
CHA_FAN1	1A	12W	Q-Fan Controlled	-
CHA_FAN2	1A	12W	Q-Fan Controlled	-
AIO_PUMP	1A	12W	Full-Speed	-

#### 5. Power connectors

These Power connectors allow you to connect your motherboard to a power supply. The power supply plugs are designed to fit in only one orientation, find the proper orientation and push down firmly until the power supply plugs are fully inserted.





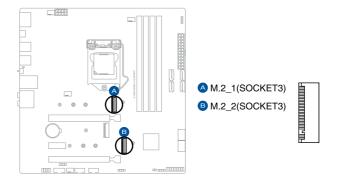
Ensure to connect the 8-pin power plug.



- For a fully configured system, we recommend that you use a power supply unit (PSU) that complies with ATX 12V Specification 2.0 (or later version) and provides a minimum power of 350 W.
- We recommend that you use a PSU with a higher power output when configuring a system with more power-consuming devices. The system may become unstable or may not boot up if the power is inadequate.
- If you want to use two or more high-end PCI Express x16 cards, use a PSU with 1000W power or above to ensure the system stability.

#### 6. M.2 slot

The M.2 slot allows you to install M.2 SSD modules.





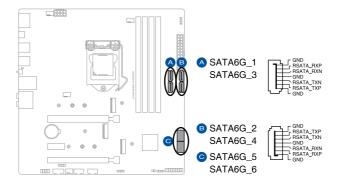
- M.2\_1 slot supports PCle 3.0 x4 and SATA mode Key M design and type 2242 / 2260/ 2280 storage devices.
- M.2\_2 slot supports PCle 3.0 x4 mode Key M design and type 2242 / 2260 / 2280 storage devices.
- The M.2\_1 socket shares bandwidth with SATA6G\_1 port when using M.2 SATA mode device.
- M.2\_2 slot supports IRST (Intel® Rapid Storage Technology).



The M.2 SSD module is purchased separately.

#### 7. SATA 6Gb/s ports

The SATA 6Gb/s ports allows you to connect SATA devices such as optical disc drives and hard disk drives via a SATA cable.





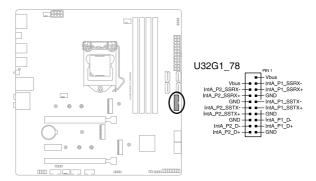
If you installed SATA storage devices, you can create a RAID 0, 1, 5, and 10 configuration with the Intel® Rapid Storage Technology through the onboard Intel® B460 chipset.



- The slots are set to [AHCI] by default. If you intend to create a SATA RAID set using these connectors, set the SATA Mode item in the BIOS to [Intel RST Premium with Intel Optane System Acceleration (RAID)].
- SATA6G 1 will be disabled when M.2 1 is using a SATA mode device.
- Before creating a RAID set, refer to the RAID Configuration Guide. You can
  download the RAID Configuration Guide from the ASUS website.

#### 8. USB 3.2 Gen 1 header

The USB 3.2 Gen 1 header allows you to connect a USB 3.2 Gen 1 module for additional USB 3.2 Gen 1 ports. The USB 3.2 Gen 1 header provides data transfer speeds of up to 5 Gb/s.

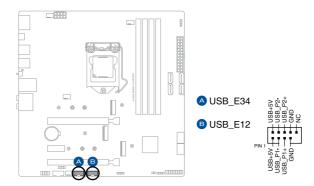




The USB 3.2 Gen 1 module is purchased separately.

#### 9. USB 2.0 header

The USB 2.0 header allows you to connect a USB module for additional USB 2.0 ports. The USB 2.0 header provides data transfer speeds of up to 480 Mb/s connection speed.





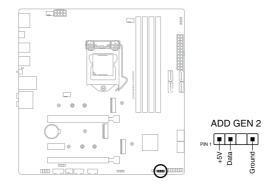
DO NOT connect a 1394 cable to the USB connectors. Doing so will damage the motherboard!



The USB 2.0 module is purchased separately.

#### 10. AURA Addressable Gen2 header

The Addressable Gen2 header allows you to connect individually addressable RGB WS2812B LED strips or WS2812B based LED strips.





The Addressable Gen2 header supports WS2812B addressable RGB LED strips (5V/Data/Ground), with a maximum power rating of 3A (5V), and the addressable headers on this board can handle a combined maximum of 500 LEDs.



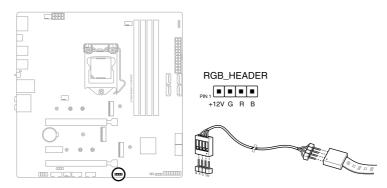
Before you install or remove any component, ensure that the power supply is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard, peripherals, or components.



- · Actual lighting and color will vary with LED strip.
- If your LED strip does not light up, check if the addressable RGB LED strip is connected in the correct orientation, and the 5V connector is aligned with the 5V header on the motherboard.
- The addressable RGB LED strip will only light up when the system is powered on.
- The addressable RGB LED strip is purchased separately.

#### 11. AURA RGB header

The AURA RGB header allows you to connect RGB LED strips.





The AURA RGB header supports 5050 RGB multi-color LED strips (12V/G/R/B), with a maximum power rating of 3A (12V).



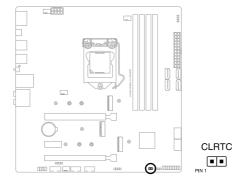
Before you install or remove any component, ensure that the power supply is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard, peripherals, or components.



- · Actual lighting and color will vary with LED strip.
- If your LED strip does not light up, check if the RGB LED extension cable and the RGB LED strip is connected in the correct orientation, and the 12V connector is aligned with the 12V header on the motherboard.
- The LED strip will only light up when the system is powered on.
- The LED strip is purchased separately.

#### 12. Clear CMOS header

The Clear CMOS header allows you to clear the Real Time Clock (RTC) RAM in the CMOS, which contains the date, time, system passwords, and system setup parameters.



#### To erase the RTC RAM:

- 1. Turn OFF the computer and unplug the power cord.
- 2. Short-circuit pin 1-2 with a metal object or jumper cap for about 5-10 seconds.
- 3. Plug the power cord and turn ON the computer.
- Hold down the <Del> key during the boot process and enter BIOS setup to re-enter data.



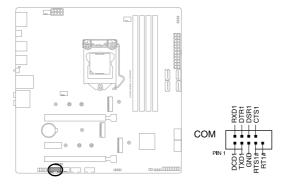
DO NOT short-circuit the pins except when clearing the RTC RAM. Short-circuiting or placing a jumper cap will cause system boot failure!



If the steps above do not help, remove the onboard button cell battery and move the jumper again to clear the CMOS RTC RAM data. After clearing the CMOS, reinstall the button cell battery.

#### 13. COM Port connector

The COM (Serial) Port connector allows you to connect a COM port module. Connect the COM port module cable to this connector, then install the module to a slot opening on the system chassis.

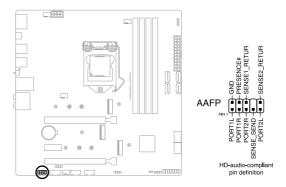




The COM port module is purchased separately.

#### 14. Front Panel Audio header

The front panel audio header is for a chassis-mounted front panel audio I/O module that supports HD Audio. Connect one end of the front panel audio I/O module cable to this header.

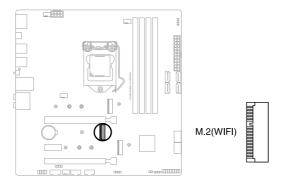




We recommend that you connect a high-definition front panel audio module to this connector to avail of the motherboard's high-definition audio capability.

#### 15. M.2 slot (Key E)

The M.2 Wi-Fi slot allows you to install an M.2 Wi-Fi module (E-key, type 2230; PCIe interface).

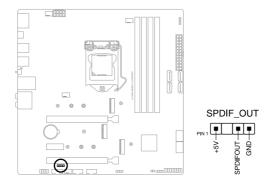




The M.2 Wi-Fi module is purchased separately.

#### 16. S/PDIF Out header

The S/PDIF Out header allows you to connect the Sony/Philips Digital Interface (S/PDIF) Out module.

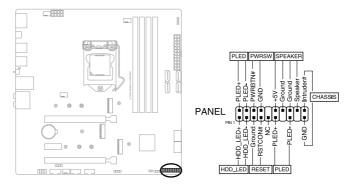




The S/PDIF module is purchased separately.

#### 17. System Panel header

The System Panel header supports several chassis-mounted functions.



#### System Power LED connector (PLED)

The 2-pin and/or 3-1 pin connectors allow you to connect the System Power LED. The System Power LED lights up when the system is connected to a power source, or when you turn on the system power, and blinks when the system is in sleep mode.

#### Storage Device Activity LED connector (HDD\_LED)

The 2-pin connector allows you to connect the Storage Device Activity LED. The Storage Device Activity LED lights up or blinks when data is read from or written to the storage device or storage device add-on card.

#### System Warning Speaker connector (SPEAKER)

The 4-pin connector allows you to connect the chassis-mounted system warning speaker. The speaker allows you to hear system beeps and warnings.

#### Power Button/Soft-off Button connector (PWRSW)

The 3-1 pin connector allows you to connect the system power button. Press the power button to power up the system, or put the system into sleep or soft-off mode (depending on the operating system settings).

#### Reset button connector (RESET)

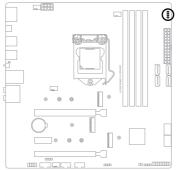
The 2-pin connector allows you to connect the chassis-mounted reset button. Press the reset button to reboot the system.

#### Chassis intrusion connector (CHASSIS)

The 2-pin connector allows you to connect the chassis-mounted intrusion detection sensor or switch. The chassis intrusion sensor or switch sends a high-level signal to the connector when a chassis component is removed or replaced, the signal is then generated as a chassis intrusion event.

#### Q-LEDs 18.

The Q-LEDs check key components (CPU, DRAM, VGA, and booting devices) during the motherboard booting process. If an error is found, the critical component's LED stays lit up until the problem is solved.



□ BOOT (YELLOW GREEN) □ VGA (WHITE)

□ DRAM (YELLOW)

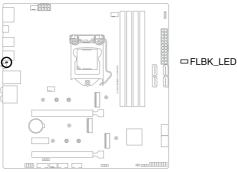
□ CPU (RED)



The Q-LEDs provide the most probable cause of an error code as a starting point for troubleshooting. The actual cause may vary from case to case.

#### 19. FlashBack™ LED

The FlashBack™ LED lights up or blinks to indicate the status of the BIOS FlashBack™.



# **Basic Installation**

2

# 2.1 Building your PC system

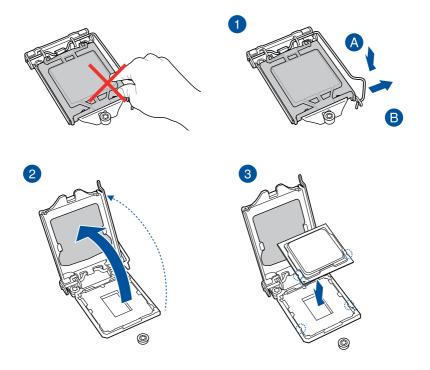


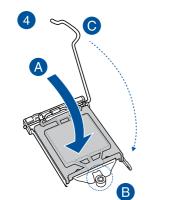
The diagrams in this section are for reference only. The motherboard layout may vary with models, but the installation steps are the same for all models.

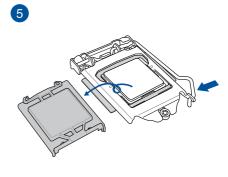
## 2.1.1 CPU installation



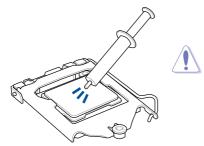
- Ensure that you install the correct CPU designed for LGA1200 socket only. DO NOT install a CPU designed for LGA1155, LGA1156, and LGA1151 sockets on the LGA1200 socket.
- ASUS will not cover damages resulting from incorrect CPU installation/removal, incorrect CPU orientation/placement, or other damages resulting from negligence by the user.





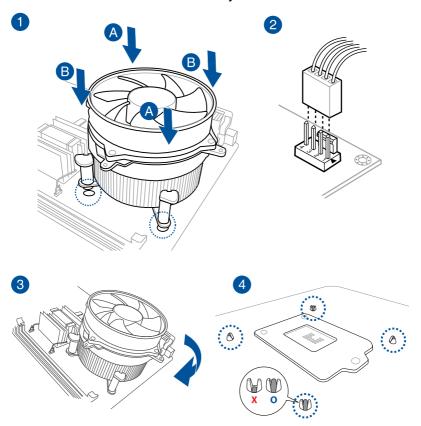


# 2.1.2 Cooling system installation



Apply Thermal Interface Material to the CPU cooling system and CPU before you install the cooling system, if necessary.

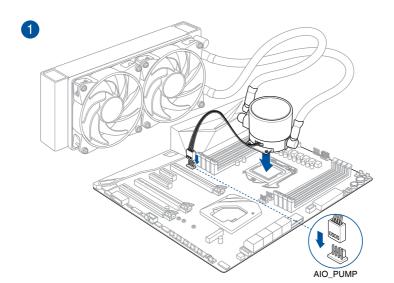
# To install a CPU heatsink and fan assembly

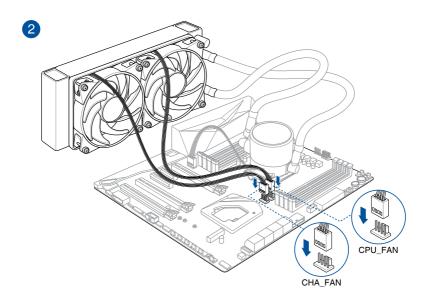


## To install an AIO cooler

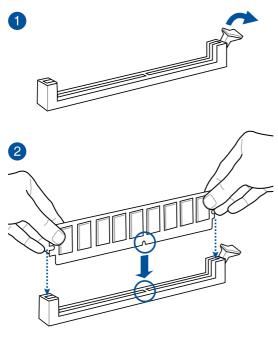


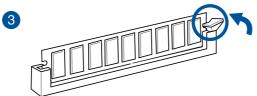
If you wish to install an AlO cooler, we recommend installing the AlO cooler after installing the motherboard into the chassis.



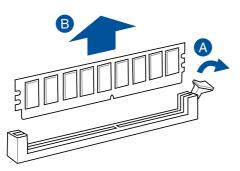


## 2.1.3 DIMM installation

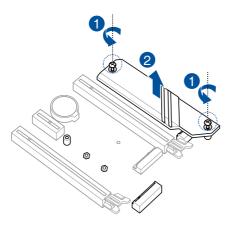


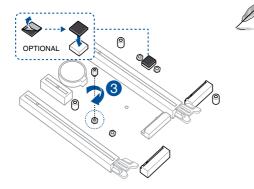


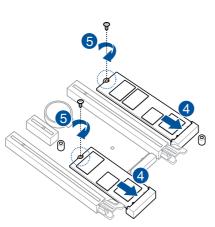
## To remove a DIMM



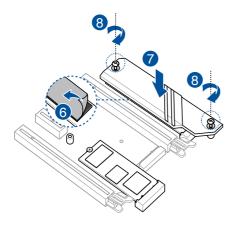
## 2.1.4 M.2 installation







- The M.2 rubber pad is optional for when installing a single sided M.2 storage device. Ensure to install the bundled M.2 rubber pad before installing your single sided M.2 storage device.
- DO NOT install the bundled M.2 rubber pads when installing a double-sided M.2 storage device. The rubber pad installed by default is compatible with double sided M.2 storage devices.

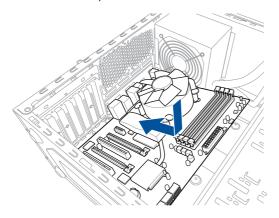




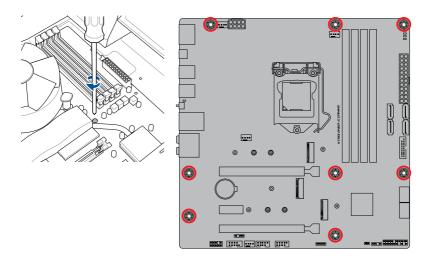
The M.2 is purchased separately.

## 2.1.5 Motherboard installation

 Place the motherboard into the chassis, ensuring that its rear I/O ports are aligned to the chassis' rear I/O panel.



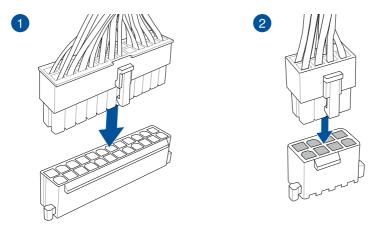
Place eight (8) screws into the holes indicated by circles to secure the motherboard to the chassis.





DO NOT over tighten the screws! Doing so can damage the motherboard.

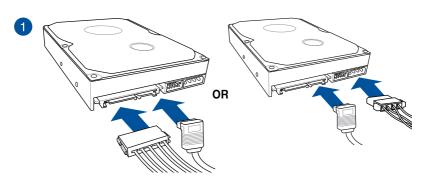
## 2.1.6 ATX power connection

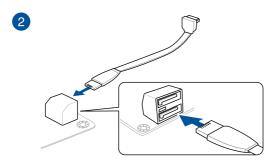




Ensure to connect the 8-pin power plug

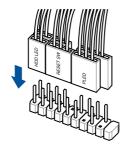
## 2.1.7 SATA device connection



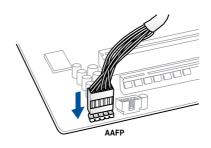


## 2.1.8 Front I/O connector

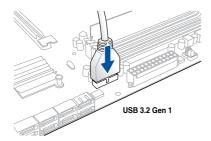
## To install front panel connector



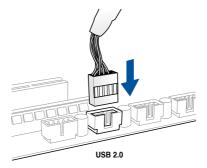
## To install front panel audio connector



## To install USB 3.2 Gen 1 connector

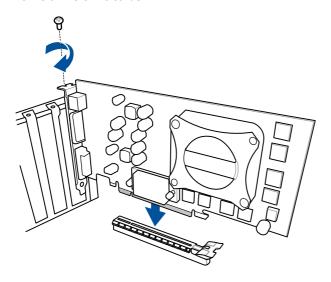


#### To install USB 2.0 connector

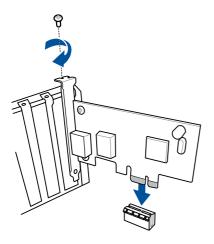


## 2.1.9 Expansion card installation

## To install PCle x16 cards

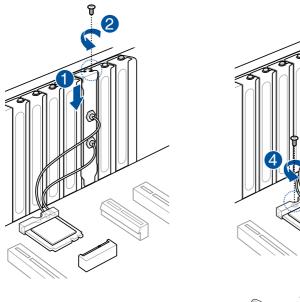


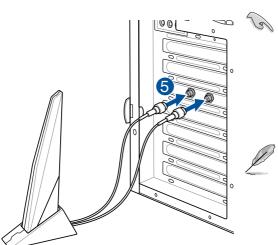
## To install PCle x1 cards



## 2.1.10 M.2 Wi-Fi module and antenna installation

## Installing the M.2 W-Fi Module





- Ensure that the ASUS 2x2 dual band Wi-Fi antenna is securely installed to the Wi-Fi ports.
- Ensure that the antenna is at least 20 cm away from all persons.
- The illustration to the left is for reference only. The I/O port layout may vary with models, but the Wi-Fi antenna installation procedure is the same for all models.
- The M.2 Wi-Fi module and antenna are purchased separately.

## 2.2 BIOS update utility

#### BIOS FlashBack™

BIOS FlashBack<sup>™</sup> allows you to easily update the BIOS without entering the existing BIOS or operating system. Simply insert a USB storage device to the USB port (the USB port hole is marked on the I/O shield) then press the BIOS FlashBack<sup>™</sup> button for three seconds to automatically update the BIOS.

#### To use BIOS FlashBack™:

Insert a USB storage device to the BIOS FlashBack™ port.



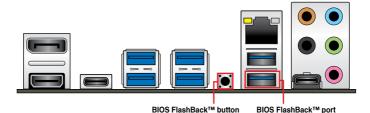
We recommend you to use a USB 2.0 storage device to save the latest BIOS version for better compatibility and stability.

- Visit <a href="https://www.asus.com/support/">https://www.asus.com/support/</a> and download the latest BIOS version for this motherboard.
- Manually rename the file as RSB460GG.CAP, or launch the BIOSRenamer.exe
  application to automatically rename the file, then copy it to your USB storage device.



The **BIOSRenamer.exe** application is zipped together with your BIOS file when you download a BIOS file for a BIOS FlashBack™ compatible motherboard.

- 4. Shut down your computer.
- Press the BIOS FlashBack™ button for three seconds until the BIOS FlashBack™
   LED blinks three times, indicating that the BIOS FlashBack™ function is enabled.



6. Wait until the light goes out, indicating that the BIOS updating process is completed.



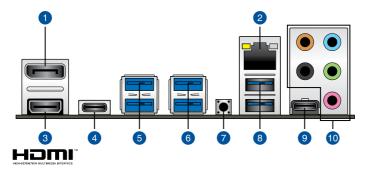
For more BIOS update utilities in BIOS setup, refer to the section **Updating BIOS** in Chapter 3.



- Do not unplug portable disk, power system, or short the CLRTC header while BIOS update is ongoing, otherwise update will be interrupted. In case of interruption, please follow the steps again.
- If the light flashes for five seconds and turns into a solid light, this means that the BIOS FlashBack™ is not operating properly. This may be caused by improper installation of the USB storage device and filename/file format error. If this scenario happens, please restart the system to turn off the light.
- Updating BIOS may have risks. If the BIOS program is damaged during the process and results to the system's failure to boot up, please contact your local ASUS Service Center.

## 2.3 Motherboard rear and audio connections

## 2.3.1 Rear I/O connection



Rear	Rear panel connectors			
1.	DisplayPort			
2.	Intel® I219-V 1Gb Ethernet port*			
3.	HDMI™ port			
4.	USB 3.2 Gen 2x2 Type-C <sup>®</sup> port EC1			
5.	USB 3.2 Gen 1 Type-A ports 5 and 6			
6.	USB 3.2 Gen 1 Type-A ports 3 and 4			
7.	BIOS FlashBack™ button			
8.	USB 3.2 Gen 1 Type-A ports 1 and 2			
9.	Audio USB Type-C®			
10.	Audio jacks**			

<sup>\*</sup> and \*\*: Refer to the tables on the next page for LAN port LEDs, and audio port definitions.



- We strongly recommend that you connect your devices to ports with matching data transfer rate. Please connect your USB 3.2 Gen 1 devices to USB 3.2 Gen 1 ports and your USB 3.2 Gen 2 devices to USB 3.2 Gen 2 ports for faster and better performance for your devices.
- Due to the design of the Intel chipset, all USB devices connected to the USB 3.2 Gen
  1 ports are controlled by the xHCl controller. Some legacy USB devices must update
  their firmware for better compatibility.

## \* Intel® I219-V 1Gb Ethernet port LED indications

Activity Link LE	)	Speed LED		
Status	Description	Status	Description	
Off	No link	Off	10 Mbps connection	
Orange	Linked	Orange	100 Mbps connection	
Blinking	Data activity	Green	1 Gbps connection	



## \*\* Audio 2, 4, 5.1 or 7.1-channel configuration

Port	Headset 2-channel	4-channel	5.1-channel	7.1-channel
Light Blue	Line In	Line In	Line In	Side Speaker Out
Lime	Line Out	Front Speaker Out	Front Speaker Out	Front Speaker Out
Pink	Mic In	Mic In	Mic In	Mic In
Orange	_	_	Center/Sub woofer	Center/Sub woofer
Black	_	Rear Speaker Out	Rear Speaker Out	Rear Speaker Out

## 2.3.2 Audio I/O connections

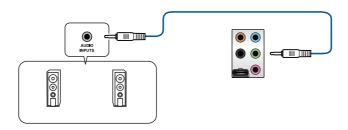
## Audio I/O ports



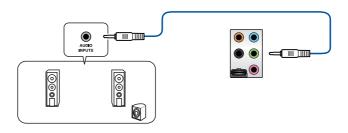
## Connect to Headphone and Mic



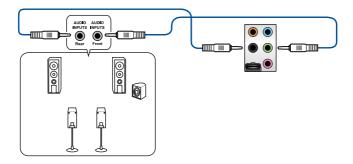
## **Connect to Stereo Speakers**



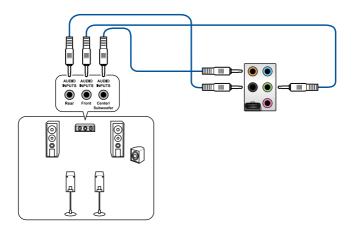
## **Connect to 2-channel Speakers**



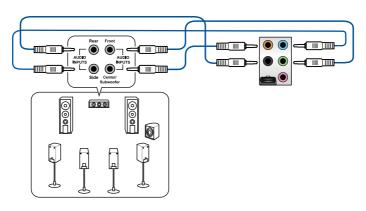
## **Connect to 4-channel Speakers**



## Connect to 5.1-channel Speakers



## Connect to 7.1-channel Speakers



## 2.4 Starting up for the first time

- After making all the connections, replace the system case cover.
- Ensure that all switches are off.
- 3. Connect the power cord to the power connector at the back of the system chassis.
- 4. Connect the power cord to a power outlet that is equipped with a surge protector.
- 5. Turn on the devices in the following order:
  - a. Monitor
  - b. External storage devices (starting with the last device on the chain)
  - c. System power
- 6. After applying power, the system power LED on the system front panel case lights up. For systems with ATX power supplies, the system LED lights up when you press the ATX power button. If your monitor complies with the "green" standards or if it has a "power standby" feature, the monitor LED may light up or change from orange to green after the system LED turns on.

The system then runs the power-on self tests (POST). While the tests are running, the BIOS beeps (refer to the BIOS beep codes table) or additional messages appear on the screen. If you do not see anything within 30 seconds from the time you turned on the power, the system may have failed a power-on test. Check the jumper settings and connections or call your retailer for assistance.

BIOS Beep	Description		
One short beep	VGA detected Quick boot set to disabled No keyboard detected		
One continuous beep followed by two short beeps then a pause (repeated)	No memory detected		
One continuous beep followed by three short beeps	No VGA detected		
One continuous beep followed by four short beeps	Hardware component failure		

 At power on, hold down the <Delete> key to enter the BIOS Setup. Follow the instructions in Chapter 3.

## 2.5 Turning off the computer

While the system is ON, press the power button for less than four seconds to put the system on sleep mode or soft-off mode, depending on the BIOS setting. Press the power button for more than four seconds to let the system enter the soft-off mode regardless of the BIOS setting.

## **BIOS and RAID Support**





For more details on BIOS and RAID configurations, please refer to <a href="www.asus.com/support">www.asus.com/support</a>.

## 3.1 Knowing BIOS



The new ASUS UEFI BIOS is a Unified Extensible Interface that complies with UEFI architecture, offering a user-friendly interface that goes beyond the traditional keyboard-only BIOS controls to enable a more flexible and convenient mouse input. You can easily navigate the new UEFI BIOS with the same smoothness as your operating system. The term "BIOS" in this user manual refers to "UEFI BIOS" unless otherwise specified.

BIOS (Basic Input and Output System) stores system hardware settings such as storage device configuration, overclocking settings, advanced power management, and boot device configuration that are needed for system startup in the motherboard CMOS. In normal circumstances, the default BIOS settings apply to most conditions to ensure optimal performance. **DO NOT change the default BIOS settings** except in the following circumstances:

- An error message appears on the screen during the system bootup and requests you to run the BIOS Setup.
- You have installed a new system component that requires further BIOS settings or update.



Inappropriate BIOS settings may result to instability or boot failure. We strongly recommend that you change the BIOS settings only with the help of a trained service personnel.



- When downloading or updating the BIOS file, rename it as RSB460GG.CAP for this
  motherboard.
- BIOS settings and options may vary due to different BIOS release versions. Please refer to the latest BIOS version for settings and options.

## 3.2 BIOS setup program

Use the BIOS Setup to update the BIOS or configure its parameters. The BIOS screen include navigation keys and brief onscreen help to guide you in using the BIOS Setup program.

#### Entering BIOS at startup

To enter BIOS Setup at startup, press <Delete> or <F2> during the Power-On Self Test (POST). If you do not press <Delete> or <F2>, POST continues with its routines.

#### **Entering BIOS Setup after POST**

To enter BIOS Setup after POST:

- Press <Ctrl>+<Alt>+<Delete> simultaneously.
- Press the reset button on the system chassis.
- Press the power button to turn the system off then back on. Do this option only if you failed to enter BIOS Setup using the first two options.

After doing either of the three options, press < Delete > key to enter BIOS.



- Ensure that a USB mouse is connected to your motherboard if you want to use the mouse to control the BIOS setup program.
- If the system becomes unstable after changing any BIOS setting, load the default settings to ensure system compatibility and stability. Select the Load Optimized Defaults item under the Exit menu or press hotkey <F5>.
- If the system fails to boot after changing any BIOS setting, try to clear the CMOS and
  reset the motherboard to the default value.
- The BIOS setup program does not support Bluetooth devices.

#### BIOS menu screen

The BIOS Setup program can be used under two modes: **EZ Mode** and **Advanced Mode**. You can change modes from **Setup Mode** in **Boot menu** or by pressing the <F7> hotkey.

## 3.3 EZ Update

The EZ Update is a utility that allows you to update the motherboard BIOS in Windows® environment.



- EZ Update requires an Internet connection either through a network or an ISP (Internet Service Provider).
- This utility is available in the support USB drive that comes with the motherboard package.

## 3.4 ASUS EZ Flash 3

The ASUS EZ Flash 3 feature allows you to update the BIOS without using an OS-based utility.



Ensure to load the BIOS default settings to ensure system compatibility and stability. Select the **Load Optimized Defaults** item under the **Exit** menu or press hotkey **<F5>**.

### To update the BIOS:



- This function can support devices such as a USB flash disk with FAT 32/16 format and single partition only.
- DO NOT shut down or reset the system while updating the BIOS to prevent system boot failure!
- 1. Insert the USB flash disk that contains the latest BIOS file to the USB port.
- Enter the Advanced Mode of the BIOS setup program. Go to the Tool menu to select ASUS EZ Flash 3 Utility and press <Enter>.
- Press < Tab > to switch to the **Drive** field.
- Press the Up/Down arrow keys to find the USB flash disk that contains the latest BIOS, and then press <Enter>.
- 5. Press <Tab> to switch to the Folder field.
- Press the Up/Down arrow keys to find the BIOS file, and then press <Enter> to
  perform the BIOS update process. Reboot the system when the update process is
  done.

#### 3.5 ASUS CrashFree BIOS 3

The ASUS CrashFree BIOS 3 utility is an auto recovery tool that allows you to restore the BIOS file when it fails or gets corrupted during the updating process. You can restore a corrupted BIOS file using the motherboard support DVD or a USB flash drive that contains the BIOS file.



The BIOS file in the motherboard support DVD may be older than the BIOS file published on the ASUS official website. If you want to use the newer BIOS file, download the file at <a href="https://www.asus.com/support/">https://www.asus.com/support/</a> and save it to a USB flash drive.

#### Recovering the BIOS

#### To recover the BIOS:

- 1. Turn on the system.
- Insert the motherboard support DVD to the optical drive, or the USB flash drive containing the BIOS file to the USB port.
- The utility automatically checks the devices for the BIOS file. When found, the utility reads the BIOS file and enters ASUS EZ Flash 3 automatically.
- The system requires you to enter BIOS Setup to recover the BIOS setting. To ensure system compatibility and stability, we recommend that you press <F5> to load default BIOS values.



DO NOT shut down or reset the system while updating the BIOS! Doing so can cause system boot failure!

## 3.6 RAID configurations

The motherboard comes with the Intel® Rapid Storage Technology that supports RAID 0, RAID 1, RAID 5 and RAID 10 configuration.



For more information on configuring your RAID sets, please refer to the RAID Configuration Guide which you can find at <a href="https://www.asus.com/support">https://www.asus.com/support</a>, or by scanning the QR code.



#### **RAID** definitions

**RAID 0 (Data striping)** optimizes two identical hard disk drives to read and write data in parallel, interleaved stacks. Two hard disks perform the same work as a single drive but at a sustained data transfer rate, double that of a single disk alone, thus improving data access and storage. Use of two new identical hard disk drives is required for this setup.

**RAID 1 (Data mirroring)** copies and maintains an identical image of data from one drive to a second drive. If one drive fails, the disk array management software directs all applications to the surviving drive as it contains a complete copy of the data in the other drive. This RAID configuration provides data protection and increases fault tolerance to the entire system. Use two new drives or use an existing drive and a new drive for this setup. The new drive must be of the same size or larger than the existing drive.

**RAID 5** stripes both data and parity information across three or more hard disk drives. Among the advantages of RAID 5 configuration include better HDD performance, fault tolerance, and higher storage capacity. The RAID 5 configuration is best suited for transaction processing, relational database applications, enterprise resource planning, and other business systems. Use a minimum of three identical hard disk drives for this setup.

**RAID 10** is data striping and data mirroring combined without parity (redundancy data) having to be calculated and written. With the RAID 10 configuration you get all the benefits of both RAID 0 and RAID 1 configurations. Use four new hard disk drives or use an existing drive and three new drives for this setup.

## **Appendix**

#### **Notices**

## **FCC Compliance Information**

Responsible Party: Asus Computer International

Address: 48720 Kato Rd., Fremont, CA 94538, USA

Phone / Fax No: (510)739-3777 / (510)608-4555

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.

# Compliance Statement of Innovation, Science and Economic Development Canada (ISED)

This device complies with Innovation, Science and Economic Development Canada licence exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

CAN ICES-3(B)/NMB-3(B)

# Déclaration de conformité de Innovation, Sciences et Développement économique Canada (ISED)

Le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CAN ICES-3(B)/NMB-3(B)

## **VCCI: Japan Compliance Statement**

#### Class B ITE

```
この装置は、クラス目情報技術製設です。この情報は、家庭電視で使用することを目
的としていますが、この装置がラジオやテレビジョン受信権に近接して使用されると、
受信障害を引き起こすことがあります。
最後規則者に従って近しい取り扱いをして下さい。
VCCI-18
```

## **KC: Korea Warning Statement**

```
B합 기기 (가정용 방송통신기자제)
이 기기는 가정용(B합) 전자과적합기기로서 주로 가정에서 사용하는 것을 목적으로
하며, 모든 지역에서 사용할 수 있습니다.
```

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A-2 Appendix

# Declaration of compliance for product environmental regulation

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

Please refer to <a href="http://csr.asus.com/Compliance.htm">http://csr.asus.com/Compliance.htm</a> for information disclosure based on regulation requirements ASUS is complied with:

#### **EU REACH and Article 33**

Complying with the REACH (Registration, Evaluation, Authorisation, and Restriction of Chemicals) regulatory framework, we published the chemical substances in our products at ASUS REACH website at http://csr.asus.com/english/REACH.htm.

#### **EU RoHS**

This product complies with the EU RoHS Directive. For more details, see http://csr.asus.com/english/article.aspx?id=35

#### India RoHS

This product complies with the "India E-Waste (Management) Rules, 2016" and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs) in concentrations exceeding 0.1% by weight in homogenous materials and 0.01% by weight in homogenous materials for cadmium, except for the exemptions listed in Schedule II of the Rule.

#### Vietnam RoHS

ASUS products sold in Vietnam, on or after September 23, 2011, meet the requirements of the Vietnam Circular 30/2011/TT-BCT.

Các sản phẩm ASUS bán tại Việt Nam, vào ngày 23 tháng 9 năm2011 trở về sau, đều phải đáp ứng các yêu cầu của Thông tư 30/2011/TT-BCT của Việt Nam.

#### **Turkey RoHS**

AEEE Yönetmeliğine Uygundur

#### **ASUS Recycling/Takeback Services**

ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for you to be able to responsibly recycle our products, batteries, other components as well as the packaging materials. Please go to <a href="http://csr.asus.com/english/Takeback.htm">http://csr.asus.com/english/Takeback.htm</a> for detailed recycling information in different regions.



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.



DO NOT throw the mercury-containing button cell battery in municipal waste. This symbol of the crossed out wheeled bin indicates that the battery should not be placed in municipal waste.

### Regional notice for California



**WARNING** 

Cancer and Reproductive Harm - www.P65Warnings.ca.gov

A-4 Appendix

English ASUSTEK Computer 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: <a href="https://www.asus.com/support">www.asus.com/support</a>

Français AsusTek Computer Inc. déclare par la présente que cet appareil est conforme aux critères essentiels et autres clauses pertinentes des directives concernées. La déclaration de conformité de l'UE peut être téléchargée à partir du site Internet suivant: <a href="https://www.asus.com/support">www.asus.com/support</a>

Deutsch ASUSTeK Computer Inc. erklärt hiermit, dass dieses Gerät mit den wesentlichen Anforderungen und anderen relevanten Bestimmungen der zugehörigen Richtlinien übereinstimmt. Der gesamte Text der EU-Konformitätserklärung ist verfügbar unter: <a href="https://www.asus.com/support">www.asus.com/support</a>

Italiano ASUSTEK Computer Inc. con la presente dichiara che questo dispositivo è conforme ai requisiti essenziali e alle altre disposizioni pertinenti con le direttive correlate. Il testo completo della dichiarazione di conformità UE è disponibile all'indirizzo: <a href="https://www.asus.com/support">www.asus.com/support</a>

Русский Компания ASUS заявляет, что это устройство соответствует основным требованиям и другим соответствующим условиям соответствующих директив. Подробную информацию, пожалуйста, смотрите на <u>www.asus.com/support</u>

Български С настоящого ASUSTEK Computer Inc. декларира, че това устройство е в съответствие със съществените изисквания и другите приложими постановления на свързаните директиви. Пълният текст на декларацията за съответствие на ЕС е достъпна на адрес: www.asus.com/support

**Hrvatski** ASUSTeK Computer Inc. ovim izjavljuje da je ovaj uređaj sukladan s bitnim zahtjevima i ostalim odgovarajućim odredbama vezanih direktiva. Cijeli tekst EU izjave o sukladnosti dostupan je na: <a href="www.asus.com/support">www.asus.com/support</a>

Čeština Společnost ASUSTeK Computer Inc. tímto prohlašuje, že toto zařízení splňuje základní požadavky a další příslušná ustanovení souvisejících směrnic. Plné znění prohlášení o shodě EU je k dispozici na adrese: www.asus.com/support

Dansk ASUSTeK Computer Inc. erklærer hermed, at denne enhed er i overenstemmelse med hovedkravene og andre relevante bestemmelser i de relasterede direktiver. Hele EU-overensstemmelseserklæringen kan findes på: www.asus.com/support

Nederlands ASUSTEK Computer Inc. verklaart hierbij dat dit apparaat voldoet aan de essentiële vereisten en andere relevante bepalingen van de verwante richtlijnen. De volledige tekst van de EU-verklaring van conformiteit is beschikbaar op: <a href="https://www.asus.com/support">www.asus.com/support</a>

Eesti Käesolevaga kinnitab ASUSTeK Computer Inc, et see seade vastab asjakohaste direktiivide oluliste nõuetele ja teistele asjassepuutuvatele sätetele. EL vastavusdeklaratsiooni täielik tekst on saadaval järgmisel aadressil: www.asus.com/Support

Suomi ASUSTeK Computer Inc. ilmoittaa täten, että tämä laite on asiaankuuluvien direktiivien olennaisten vaatimusten ja muiden tätä koskevien säädösten mukainen. EU-yhdenmukaisuusilmoituksen koko teksti on luettavissa osoitteessa: <u>www.asus.com/support</u>

**Ελληνικά** Με το παρόν, η AsusTek Computer Inc. δηλώνει ότι αυτή η συσκευή συμμορφώνεται με τις θεμελιώδεις απαιτήσεις και άλλες οχετικές διατάζεις των Οδηγιών της ΕΕ. Το πλήρες κείμενο της δήλωσης συμβατότητας είναι διαθέσιμο στη διεύθυνοη: <u>www.asus.com/support</u>

Magyar Az ASUSTeK Computer Inc. ezennel kijelenti, hogy ez az eszköz megfelel a kapcsolódó írányelvek lényeges követelményeinek és egyéb vonatkozó rendelkezéseinek. Az EU megfelelőségi nyilatkozat teljes szövege innen letőlíthető: www.asus.com/support

Latviski ASUSTEK Computer Inc. ar šo paziņo, ka šī ierīce atbilst saistīto Direktīvu būtiskajām prasībām un citiem citiem saistošajiem nosacijumiem. Pilns ES atbilstības paziņojuma teksts pieejams šeit: <u>www.asus.com/support</u>

Lietuvių "ASUSTeK Computer Inc." šiuo tvirtina, kad šis įrenginys atitinka pagrindinius reikalavimus ir kitas svarbias susijusių direktyvų nuostatas. Visą ES atitikties deklaracijos tekstą galima rasti: <a href="www.asus.com/support">www.asus.com/support</a>

Norsk ASUSTEK Computer Inc. erklærer herved at denne enheten er i samsvar med hovedsaklige krav og andre relevante forskrifter i relaterte direktiver. Fullstendig tekst for EU-samsvarserklæringen finnes på: www.asus.com/support

Polski Firma ASUSTeK Computer Inc. niniejszym oświadcza, że urządzenie to jest zgodne z zasadniczymi wymogami i innymi właściwymi postanowieniami powiązanych dyrektyw. Pełny tekst deklaracji zgodności UE jest dostępny pod adresem: www.asus.com/support

Português A ASUSTEK Computer Inc. declara que este dispositivo está em conformidade com os requisitos essenciais e outras disposições relevantes das Diretivas relacionadas. Texto integral da declaração da UE disponível em: www.asus.com/support Română ASUSTEK Computer Inc. declară că acest dispozitiv se conformează cerințelor esențiale și altor prevederi relevante ale directivelor conexe. Textul complet al declarației de conformitate a Uniunii Europene se găsește la: www.asus.com/support

Srpski ASUSTeK Computer Inc. ovim izjavljuje da je ovaj uređaj u saglasnosti sa osnovnim zahtevima i drugim relevantnim odredbama povezanih Direktiva. Pun tekst EU deklaracije o usaglašenosti je dostupan da adresi:

Slovensky Spoločnosť ASUSTeK Computer Inc. týmto vyhlasuje, že toto zariadenie vyhovuje základným požiadavkám a ostatým príslušným ustanoveniam príslušných smerníc. Celý text vyhlásenia o zhode pre štáty EÚ je dostupný na adrese: www.asus.com/support

Slovenščina ASUSTeK Computer Inc. izjavlja, da je ta naprava skladna z bistvenimi zahtevami in drugimi ustreznimi določbami povezanih direktiv. Celotno besedilo EU-izjave o skladnosti je na voljo na spletnem mestu: www.asus.com/support

Español Por la presente, ASUSTEK Computer Inc. declara que este dispositivo cumple los requisitos básicos y otras disposiciones pertinentes de las directivas relacionadas. El texto completo de la declaración de la UE de conformidad está disponible en: <a href="https://www.asus.com/support">www.asus.com/support</a>

Svenska ASUSTeK Computer Inc. förklarar härmed att denna enhet överensstämmer med de grundläggande kraven och andra relevanta föreskrifter i relaterade direktiv. Fulltext av EU-försäkran om överensstämmelse finns på: www.asus.com/support

Українська ASUSTEK Computer Inc. заявляє, що цей пристрій відповідає основним вимогам та іншим відповідним положенням відповідних Директив. Повний текст декларації відповідності стандартам ЄС доступний из: <u>www.asus.com/support</u>

Türkçe Asus Tek Computer Inc., bu aygıtın temel gereksinimlerle ve ilişkili Yönergelerin diğer ilgili koşullarıyla uyumlu olduğunu beyan eder. AB uygunluk bildiriminin tam metni şu adreste bulunabilir: www.asus.com/support

**Bosanski** ASUSTeK Computer Inc. ovim izjavljuje da je ovaj uređaj usklađen sa bitnim zahtjevima i ostalim odgovarajućim odredbama vezanih direktiva. Cijeli tekst EU izjave o usklađenosti dostupan je na: <u>www.asus.com/support</u>

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Services/questionform/?lang=de-de

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A-6 Appendix