ROG STRIX Z370-G GAMING (WI-FI AC)

E13613 Revised Edition v2 Oct. 2017

Copyright@ 2017 ASUSTeK COMPUTER INC. All Rights Reserved.

No part of this manual, including the products and software described in it, may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form or by any means, except documentation kept by the purchaser for backup purposes, without the express written permission of ASUSTeK COMPUTER INC. ("ASUS").

Product warranty or service will not be extended if: (1) the product is repaired, modified or altered, unless such repair, modification of alteration is authorized in writing by ASUS; or (2) the serial number of the product is defaced or missing.

ASUS PROVIDES THIS MANUAL "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL ASUS, ITS DIRECTORS, OFFICERS, EMPLOYEES OR AGENTS BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (INCLUDING DAMAGES FOR LOSS OF PROFITS, LOSS OF BUSINESS, LOSS OF USE OR DATA, INTERRUPTION OF BUSINESS AND THE LIKE), EVEN IF ASUS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES ARISING FROM ANY DEFECT OR ERROR IN THIS MANUAL OR PRODUCT.

SPECIFICATIONS AND INFORMATION CONTAINED IN THIS MANUAL ARE FURNISHED FOR INFORMATIONAL USE ONLY, AND ARE SUBJECT TO CHANGE AT ANY TIME WITHOUT NOTICE, AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY ASUS. ASUS ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS OR INACCURACIES THAT MAY APPEAR IN THIS MANUAL. INCLUDING THE PRODUCTS AND SOFTWARE DESCRIBED IN IT.

Products and corporate names appearing in this manual may or may not be registered trademarks or copyrights of their respective companies, and are used only for identification or explanation and to the owners' benefit. without intent to infringe.

Offer to Provide Source Code of Certain Software

This product contains copyrighted software that is licensed under the General Public License ("GPL"), under the Lesser General Public License Version ("LGPL") and/or other Free Open Source Software Licenses. Such software in this product is distributed without any warranty to the extent permitted by the applicable law. Copies of these licenses are included in this product.

Where the applicable license entitles you to the source code of such software and/or other additional data, you may obtain it for a period of three years after our last shipment of the product, either

(1) for free by downloading it from https://www.asus.com/support/

or

(2) for the cost of reproduction and shipment, which is dependent on the preferred carrier and the location where you want to have it shipped to, by sending a request to:

ASUSTEK Computer Inc. Legal Compliance Dept. 15 Li Te Rd., Beitou, Taipei 112 Taiwan

In your request please provide the name, model number and version, as stated in the About Box of the product for which you wish to obtain the corresponding source code and your contact details so that we can coordinate the terms and cost of shipment with you.

The source code will be distributed WITHOUT ANY WARRANTY and licensed under the same license as the corresponding binary/object code.

This offer is valid to anyone in receipt of this information.

ASUSTeK is eager to duly provide complete source code as required under various Free Open Source Software licenses. If however you encounter any problems in obtaining the full corresponding source code we would be much obliged if you give us a notification to the email address gpl@asus.com, stating the product and describing the problem (please DO NOT send large attachments such as source code archives, etc. to this email address).

Contents

Safety	intormati	on	VI
About	this guide	B	vii
ROG S	TRIX Z37	0-G GAMING (WI-FI AC) specifications summary	ix
Packa	ge conten	ts	xiii
Installa	ation tools	s and components	xiv
Chapt	ter 1:	Product Introduction	
1.1	Mother	ooard overview	1-1
	1.1.1	Before you proceed	1-1
	1.1.2	Motherboard layout	1-2
	1.1.3	Central Processing Unit (CPU)	1-4
	1.1.4	System memory	1-5
	1.1.5	Expansion slots	1-7
	1.1.6	Jumpers	1-9
	1.1.7	Onboard LEDs	1-10
	1.1.8	Internal connectors	1-11
Chapt	ter 2:	Basic Installation	
2.1	Building	g your PC system	2-1
	2.1.1	Motherboard installation	2-1
	2.1.2	CPU installation	2-3
	2.1.3	CPU heatsink and fan assembly installation	2-5
	2.1.4	DIMM installation	2-7
	2.1.5	ATX power connection	2-8
	2.1.6	SATA device connection	2-9
	2.1.7	Front I/O connector	2-10
	2.1.8	Expansion card installation	2-11
	2.1.9	M.2 installation	2-13
	2.1.10	Wi-Fi antenna installation	2-15
	2.1.11	Fan holder installation	2-16
2.2	Mother	ooard rear and audio connections	2-17
	2.2.1	Rear I/O connection	2-17
	2.2.2	Audio I/O connections	2-18
2.3	Starting	g up for the first time	2-21
2.4	Turning	off the computer	2-21

Chapt	er 3:	BIOS Setup	
3.1	Knowing	g BIOS	3-1
3.2	BIOS se	tup program	3-2
	3.2.1	EZ Mode	3-3
	3.2.2	Advanced Mode	3-4
	3.2.3	QFan Control	3-7
	3.2.4	EZ Tuning Wizard	3-9
3.3	My Favo	orites	3-12
3.4	Main me	enu	3-14
3.5	Ai Twea	ker menu	3-14
3.6	Advance	ed menu	3-16
	3.6.1	Platform Misc Configuration	3-16
	3.6.2	CPU Configuration	3-16
	3.6.3	System Agent (SA) Configuration	3-16
	3.6.4	PCH Configuration	3-17
	3.6.5	PCH Storage Configuration	3-17
	3.6.6	PCH-FW Configuration	3-18
	3.6.7	Onboard Devices Configuration	3-18
	3.6.8	APM Configuration	3-18
	3.6.9	Network Stack Configuration	3-18
	3.6.10	HDD/SSD SMART Information	3-18
	3.6.11	USB Configuration	3-19
3.7	Monitor	menu	3-19
3.8	Boot me	enu	3-20
3.9	Tool me	nu	3-21
	3.9.1	ASUS EZ Flash 3 Utility	3-21
	3.9.2	Secure Erase	3-22
	3.9.3	ASUS Overclocking Profile	3-23
	3.9.4	ASUS SPD Information	3-23
	3.9.5	Graphics Card Information	3-23
3.10	Exit me	nu	3-24
3.11	Updatin	g BIOS	3-24
	3.11.1	EZ Update	3-24
	3.11.2	ASUS EZ Flash 3	3-25
	3 11 3	ASUS CrashFree BIOS 3	3-27

Chapt	er 4:	RAID Support	
4.1	RAID o	configurations	4-1
	4.1.1	RAID definitions	4-1
	4.1.2	Installing Serial ATA hard disks	4-2
	4.1.3	Intel® Rapid Storage Technology in UEFI BIOS	4-2
	4.1.4	Intel® Rapid Storage Technology Option ROM utility	4-6
4.2	Creatin	ng a RAID driver disk	4-10
	4.2.1	Creating a RAID driver disk in Windows®	4-10
Appen	dix		
Notices	3		A-1
ASUS (contact i	information	A-7

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.

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:

1. 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.

2. Chapter 2: Basic Installation

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

3. Chapter 3: BIOS Setup

This chapter tells how to change system settings through the BIOS Setup menus. Detailed descriptions of the BIOS parameters are also provided.

4. Chapter 4: RAID Support

This chapter describes the RAID configurations.

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.



DANGER/WARNING: Information to prevent injury to yourself when trying to complete a task.



CAUTION: Information to prevent damage to the components 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.

Typography

Bold text Indicates a menu or an item to select.

Italics Used to emphasize a word or a phrase.

<Key> Keys enclosed in the less-than and greater-than sign

means that you must press the enclosed key.

Example: <Enter> means that you must press the Enter or

Return key.

<Key1> + <Key2> + <Key3> If you must press two or more keys simultaneously, the key

names are linked with a plus sign (+).

	Intel® Socket 1151 for 8th Generation Core™ Processors Supports Intel®14nm CPU			
CPU	Supports Intel® Turbo Boost Technology 2.0*			
	* The support of these features depends on the CPU types.			
	** Refer to www.asus.com for Intel® CPU support list.			
Chipset Intel® Z370 Chipset				
	4 x DIMM, max. 64GB DDR4 4000(OC)* / 3866(OC)* / 3733(OC)* / 3600(OC)* / 3466(OC)* / 3400(OC)* / 3333(OC)* / 3300(OC)* / 3200(OC)* / 3000(OC)* / 2800(OC)* / 2666 / 2400 / 2133 MHz			
	Dual channel memory architecture*			
Memory	Supports Intel® Extreme Memory Profile (XMP)**			
	* For DRAM compatibility and performance, please use A2 slot for priority 1.			
	** Hyper DIMM support is subject to the physical characteristics of individual CPUs. Please refer to Memory QVL (Qualified Vendors List) for details.			
	2 x PCIe 3.0/2.0 x16 slots (supports x16, x8/x8, x8/x4 x4*, x8+x4+x4/x0**)			
	2 x PCle 3.0/2.0 x1 slot			
Expansion slots	 For 2 Intel® SSD on CPU support, install a Hyper M.2 X16 card (sold separately) into the PCleX8_2 slot, enable this card under BIOS settings. 			
	 For 3 Intel® SSD on CPU support, install a Hyper M.2 X16 card (sold separately) into the PCleX16/X8_1 slot, then enable this card under BIOS settings. 			
	Integrated Graphics Processor- Intel® HD Graphics support			
	Multi-VGA output support: HDMI/DisplayPort 1.2 ports			
	Supports HDMI with max. resolution 4096 x 2160 @ 24 Hz			
	Supports DisplayPort with max. resolution 4096 x 2304 @ 60 Hz			
VGA	Supports Intel [®] InTru™ 3D, Quick Sync Video, Clear Video HD Technology, Insider™			
	Supports up to 3 displays simultaneously			
	Maximum shared memory of 1024MB			
	DP 1.2 Multi-Stream Transport compliant, supports DP 1.2 monitor daisy chain up to 3 displays.			
Multi-GPU	Supports NVIDIA® 2-Way SLI™ Technology			
support	Supports AMD [®] 2-Way CrossFireX [™] Technology			
	1 x ASUS Wi-Fi module (Wi-Fi 802.11a/b/g/n/ac and Bluetooth v4.2)			
	1 x PS/2 keyboard/mouse combo port			
	1 x DisplayPort			
	1 x HDMI port			
Rear Panel I/O	1 x LAN (RJ45) port			
Ports	2 x USB 3.1 Gen 2, Type-A			
	2 x USB 2.0			
	4 x USB 3.1 Gen 1			
	1 x Optical S/PDI Fout			
	5 x Audio jack(s)			

(continued on the next page)

	Intel® Z370 Chipset with RAID 0, 1, 5, 10 and Intel Rapid Storage Technology support
	- 6 x SATA 6Gb/s port(s)
	- 1 x M.2 Socket 3, with M key, type 2242/2260/2280 storage devices support (SATA & PCIE 3.0 x 4 modes)*
Storage	- 1 x M.2 Socket 3, with M key, type 2242/2260/2280/22110 storage devices support (PCIE 3.0 x 4 mode)
Storage	- Ready for Intel® Optane Memory**
	 The M.2_1 socket shares bandwidth with SATA_1 port when using M.2 SATA mode device. Adjust BIOS settings to use SATA device.
	** Intel® Optane Technology is only supported when using 8th Generation Intel® processors. Before using Intel® Optane memory modules, ensure that you have updated your motherboard drivers and BIOS to the latest version from ASUS support website.
	ROG SupremeFX S1220A 8-Channel High Definition Audio CODEC
	- Supports up to 32-Bit/192kHz playback*
	- Impedance sense for front and rear headphone outputs
	- High quality 120 dB SNR stereo playback output and 113 dB SNR recording input
	- SupremeFX Shielding Technology
	- Dual Headphone Amplifiers
Audio	- Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking
	- Optical S/PDIF out port(s) at back panel
	Audio Features:
	- Sonic Radar III
	- Sonic Studio III + Sonic Studio Link
	* Due to limitations in HDA bandwidth, 32-Bit/192kHz is not supported for 8-Channel audio
	Intel® Z370 Chipset*:
	- 6 x USB 3.1 Gen 1 port(s) (4 at back panel, blue, 2 at mid-board)
	- 6 x USB 2.0 port(s) (2 at back panel, black, 4 at mid-board)
USB	ASMedia® USB 3.1 controller*:
	- 2 x USB 3.1 Gen 2 port(s) (2 at back panel, red, Type-A)
	* Supports 3A power output.
Wireless &	Wi-Fi 802.11 a/b/g/n/ac supports dual frequency band 2.4/5 GHz with MU-MIMO support
Bluetooth	Bluetooth v4.2,4.0LE, 3.0+HS
	Intel® 1219V, Dual interconnect between the Integrated Media Access
LAN	Controller (MAC) and Physical Layer (PHY)
	Anti-surge LANGuard
	ROG GameFirst Technology

(continued on the next page)

	ROG RAMCache II
	ROG GameFirst IV
ROG Exclusive Features	ROG CPU-Z
reatures	ROG Overwolf
	ROG CloneDrive
	Performance Optimization:
	5-way Optimization
	 Whole system optimization with a single click! Perfectly consolidates better CPU performance, power saving digital power control, system cooling and app usages Digi+VRM
	EPU
	- EPU
	TPU
	- Auto Tuning, TPU, GPU Boost
	Fan Xpert 4 featuring Fan Auto Tuning Function and multiple thermistors selection for optimized system cooling control
	AURA
	- Aura Lighting Control
	- Aura Lighting Effects Synchronization with compatible ASUS ROG devices
	ASUS Exclusive Features
ASUS Special	- Al Suite 3
Features	- Al Charger
	ASUS EZ DIY
	- ASUS CrashFree BIOS 3
	- ASUS EZ Flash 3
	ASUS Q-Design
	- Q-Shield
	- Q-LED (CPU, DRAM, VGA, Boot Device LED)
	- Q-Slot
	- Q-DIMM
	Gamer's Gurdian
	- SafeSlot
	- DIGI+ VRM
	- DRAM Overcurrent Protection
	- ESD Guards on LAN, Audio and USB ports
	- Highly Durable Componnets
	- Stainless Steel Back I/O

(continued on the next page)

1 x USB 3.1 Gen 1 connector supports additional 2 USB 3.1 Gen 1 port(s)
2 x USB 2.0 connector(s) supports additional 4 USB 2.0 port(s)
1 x M.2 Socket 3, with M key, type 2242/2260/2280 (SATA&PCIE 3.0 x 4 mode)
1x M.2 Socket 3, with M key, type 2242/2260/2280/22110 (PCIE 3.0 x 4 mode)* Vertical near to PWR 24-pin
6 x SATA 6Gb/s connector(s)
1 x CPU Fan connector (1 x 4 -pin)
1 x CPU OPT Fan connector (1 x 4 -pin)
2 x Chassis Fan connector(s) (2 x 4 -pin)
1 x W_PUMP+ connector (1 x 4 -pin)
1 x 24-pin EATX Power connector
1 x 8-pin ATX 12V Power connector
1 x Thermal sensor connector
1 x AAFP connector
1 x Clear CMOS jumper
1 x System panel connector
1 x CPU_OV jumper
128 Mb Flash ROM, UEFI AMI BIOS, PnP, WfM2.0, SM BIOS 3.0, ACPI 6.0, Multi-language BIOS, ASUS EZ Flash 3, CrashFree BIOS 3, F11 EZ Tuning Wizard, F6 Qfan Control, F3 My Favorites, Last Modified log, F12 PrintScreen and ASUS DRAM SPD (Serial Presence Detect) memory information
WfM2.0, DMI3.0, WOL by PME, PXE
Drivers
ASUS Utilities
EZ Update
Anti-virus software (OEM version)
Windows® 10 64-bit
Micro ATX Form 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.

Package contents

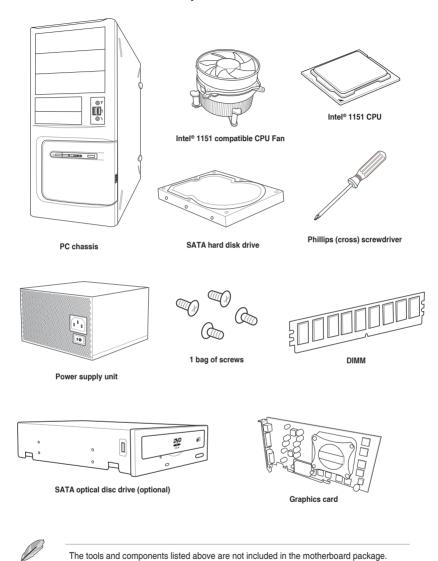
Check your motherboard package for the following items.

Motherboard	ROG STRIX Z370-G GAMING (WI-FI AC)
	4 x SATA 6Gb/s cables
Cables	1 x SLI HB BRIDGE (2-WAY-S)
	1 x Thermal sensor cable
	1 x I/O shield
	1 x ASUS 2x2 dual band Wi-Fi moving antennas (Wi-Fi 802.11a/b/g/n/ac compliant)
	1 x CPU Fan holder
	1 x CPU Installation tool
Accessories	1 x Cable ties pack(s)
	1 x MB CABLEMOD COUPON
	1 x STRIX DOOR HANGER
	1 x M.2 screws Package
	1 x STRIX Series sticker
	1 x Vertical M.2 bracket set
Application drive	ROG motherboard support DVD
Documentation	User guide



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

Installation tools and components



Product Introduction



1.1 Motherboard overview

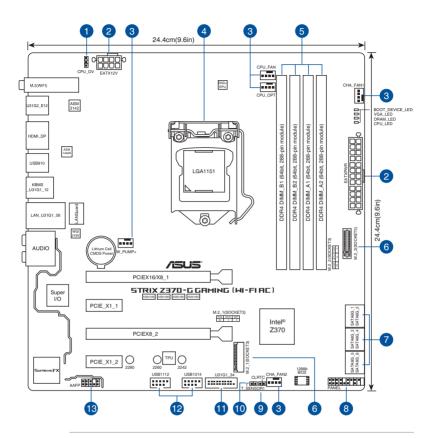
1.1.1 Before you proceed

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.

1.1.2 Motherboard layout





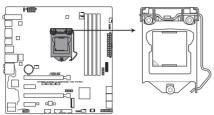
Refer to 1.1.8 Internal connectors and 2.2.1 Rear I/O connection for more information about rear panel connectors and internal connectors.

Layout contents

Connectors/Jumpers/Buttons and switches/Slots		
1.	CPU Over Voltage jumper (3-pin CPU_OV)	1-10
2.	ATX power connectors (24-pin EATXPWR; 8-pin EATX12V)	1-15
3.	CPU, CPU optional, water pump, and chassis fan connectors (4-pin CPU_FAN; 4-pin CPU_OPT; 4-pin W_PUMP; 4-pin CHA_FAN1-2)	1-14
4.	LGA1151 CPU socket	1-4
5.	DDR4 DIMM slots	1-5
6.	M.2 sockets (M.2_1; M.2_2)	1-12
7.	Intel® Serial ATA 6 Gb/s connectors (7-pin SATA6G_12, SATA 6G_34, SATA 6G_56)	1-11
8.	System panel connector (20-5 pin PANEL)	1-16
9.	Thermal sensor cable connector (2-pin T_SENSOR1)	1-14
10.	Clear RTC RAM jumper (2-pin CLRTC)	1-9
11.	USB 3.1 Gen1 connectors (20-1 pin U31G1_34)	1-13
12.	USB 2.0 connectors (10-1 pin USB1112, USB13142)	1-13
13.	Front panel audio connector (10-1 pin AAFP)	1-12

1.1.3 Central Processing Unit (CPU)

The motherboard comes with a surface mount LGA1151 socket designed for the 8th Generation $\mathsf{Core}^{\mathsf{TM}}$ Processors.



ROG STRIX Z370-G GAMING (WI-FI AC) CPU LGA1151



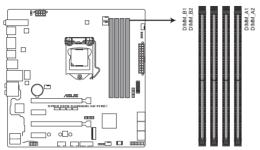
- Ensure that all power cables are unplugged before installing the CPU.
- Upon purchase of the motherboard, ensure that the PnP cap is on the socket and
 the socket contacts are not bent. Contact your retailer immediately if the PnP cap
 is missing, or if you see any damage to the PnP cap/socket contacts/motherboard
 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 LGA1151 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.

1.1.4 System memory

The motherboard comes with four DDR4 (Double Data Rate 4) Dual Inline Memory Modules (DIMM) slots.

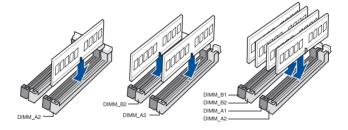


A DDR4 module is notched differently from a DDR, DDR2, or DDR3 module. DO NOT install a DDR, DDR2, or DDR3 memory module to the DDR4 slot.



ROG STRIX Z370-G GAMING (WI-FI AC) 288-pin DDR4 DIMM sockets

Recommended memory configurations



Memory configurations

You may install 1 GB, 2 GB, 4 GB, 8 GB and 16 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.
 - For more details, refer to the Microsoft[®] support site at http://support.microsoft.com/kb/929605/en-us.
- The design of the DIMM fan may vary. Ensure that the DIMM fan fits to the motherboard

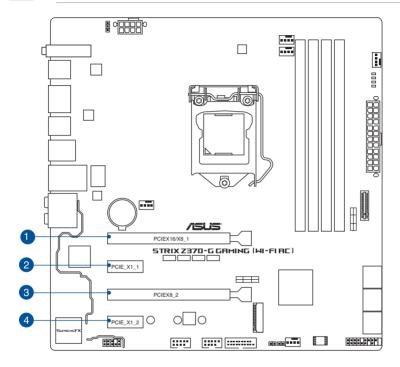


- The default memory operation frequency is dependent on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module.
 Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.
- For system stability, use a more efficient memory cooling system to support a full memory load (4 DIMMs) or overclocking condition.
- Memory modules with memory frequency higher than 2133MHz and their corresponding timing or the loaded XMP profile is not the JEDEC memory standard. The stability and compatibility of the memory modules depend on the CPU's capabilities and other installed devices.
- 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
- ASUS exclusively provides hyper DIMM support function.
- Hyper DIMM support is subject to the physical characteristics of individual CPUs. Load the X.M.P. or D.O.C.P. settings in the BIOS for the hyper DIMM support.
- Visit the ASUS website for the latest QVL.

1.1.5 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.



Slot No.	Slot Description
1	PCIE_x16/x8_1 slot
2	PCIE_x1_1 slot
3	PCIE_x8_2 slot
7	PCIE_x1_2 slot

	PCI Express 3.0 operating mode		
VGA configuration	PCle_x16/x8_1	PCle_x8_2	
Single VGA/PCle card	x16 (single VGA recommended)	N/A	
Dual VGA/PCle cards	x8	х8	



- We recommend that you provide sufficient power when running CrossFireX[™] or SLI[™] mode.
- Connect a chassis fan to the motherboard connector labeled CHA_FAN1-2 when using multiple graphics cards for better thermal environment.

	PCI Express 3.0 operating mode		
Hyper M.2 X16 card configuration	PCle_x16/x8_1	PCle_x8_2	
2 Intel® SSD on CPU support	x8	x4+x4	
3 Intel® SSD on CPU support	x8+x4+x4	N/A	

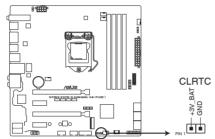


- Hyper M.2 X16 card is purchased separately.
- Enable the Hyper M.2 X16 card under BIOS settings.

1.1.6 Jumpers

1. Clear RTC RAM jumper (2-pin CLRTC)

This jumper allows you to clear the Real Time Clock (RTC) RAM in CMOS. You can clear the CMOS memory of date, time, and system setup parameters by erasing the CMOS RTC RAM data. The onboard button cell battery powers the RAM data in CMOS, which include system setup information such as system passwords.



ROG STRIX Z370-G GAMING (WI-FI AC) Clear RTC RAM

To erase the BTC BAM:

- 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 <Delete> key during the boot process and enter BIOS setup to re-enter data.



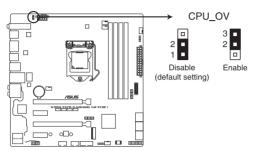
Except when clearing the RTC RAM, never remove the cap on CLRTC jumper default position. Removing the cap will cause system boot failure!



- If the steps above do not help, remove the onboard battery and move the jumper again to clear the CMOS RTC RAM data. After the CMOS clearance, reinstall the battery.
- You do not need to clear the RTC when the system hangs due to overclocking. For system failure due to overclocking, use the C.P.R. (CPU Parameter Recall) feature. Shut down and reboot the system so the BIOS can automatically reset parameter settings to default values.
- Due to the chipset behavior, AC power off is required to enable C.P.R. function. You
 must turn off and on the power supply or unplug and plug the power cord before
 rebooting the system.

2. CPU Over Voltage jumper (3-pin CPU_OV)

The CPU Over Voltage jumper allows you to set a higher CPU voltage for a flexible overclocking system, depending on the type of the installed CPU. To gain more CPU voltage setting, insert the jumper to pins 2-3. To go back to its default CPU voltage setting, insert the jumper to pins 1-2.

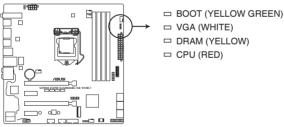


ROG STRIX Z370-G GAMING (WI-FI AC)CPU OV setting

1.1.7 Onboard LEDs

1. POST State LEDs

The POST State LEDs provide the status of these key components during POST (Power-On Self-Test): CPU, memory modules, VGA card, and hard disk drives. If an error is found, the critical component's LED stays lit up until the problem is solved.



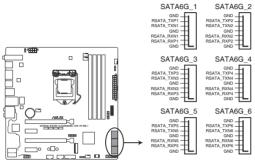
ROG STRIX Z370-G GAMING (WI-FI AC) CPU/DRAM/BOOT_DEVICE/VGA LED

1.1.8 Internal connectors

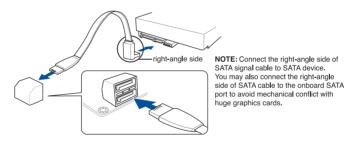
Intel® Serial ATA 6 Gb/s connectors (7-pin SATA6G_12, SATA 6G_34, SATA 6G_56)

These connectors connect to Serial ATA 6 Gb/s hard disk drives via Serial ATA 6 Gb/s signal cables.

If you installed Serial ATA hard disk drives, you can create a RAID 0, 1, 5, and 10 configuration with the Intel® Rapid Storage Technology through the onboard Intel® Z370 chipset.



ROG STRIX Z370-G GAMING (WI-FI AC) Intel® SATA 6 Gb/s connectors

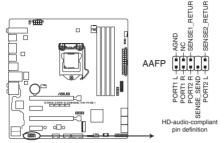




- These connectors are set to [AHCI] by default. If you intend to create a Serial ATA RAID set using these connectors, set the SATA Mode item in the BIOS to [Intel RST Premium With Intel Optane System Acceleration (RAID)].
- Before creating a RAID set, refer to the manual bundled in the motherboard support DVD.

2. Front panel audio connector (10-1 pin AAFP)

This connector 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 connector.



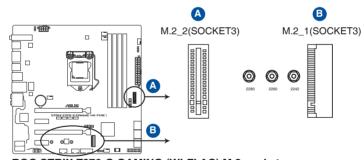
ROG STRIX Z370-G GAMING (WI-FI AC) Analog front panel connector



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.

3. M.2 sockets (M.2_1; M.2_2)

These sockets allow you to install M.2 SSD modules.



ROG STRIX Z370-G GAMING (WI-FI AC) M.2 sockets



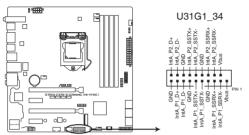
- M.2_1 socket supports PCIe 3.0 x4 and SATA mode M Key design and type 2242 / 2260 / 2280 PCIe and SATA storage devices.
- M.2_2 socket supports PCle 3.0 x4 M Key design and type 2242 / 2260 / 2280 / 22110 PCle storage devices.
- These sockets support IRST (Intel® Rapid Storage Technology).



The M.2 SSD module is purchased separately.

4. USB 3.1 Gen1 connectors (20-1 pin U31G1_34)

These connectors allow you to connect a USB 3.1 Gen1 module for additional USB 3.1 Gen1 front or rear panel ports. With an installed USB 3.1 Gen1 module, you can enjoy all the benefits of USB 3.1 Gen1 including faster data transfer speeds of up to 5 Gb/s, faster charging time for USB-chargeable devices, optimized power efficiency, and backward compatibility with USB 2.0.



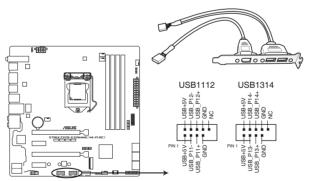
ROG STRIX Z370-G GAMING (WI-FI AC) USB 3.1 Gen 1 connector



The USB 3.1 Gen1 module is purchased separately.

5. USB 2.0 connectors (10-1 pin USB1112, USB1314)

These connectors are for USB 2.0 ports. Connect the USB module cable to these connectors, then install the module to a slot opening at the back of the system chassis. This USB connector complies with USB 2.0 specification that supports up to 480 Mb/s connection speed.



ROG STRIX Z370-G GAMING (WI-FI AC) USB2.0 connectors



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



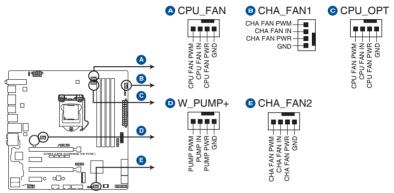
The USB 2.0 module is purchased separately.

CPU, CPU optional, W_PUMP+, and chassis fan connectors (4-pin CPU_FAN; 4-pin CPU_OPT; 4-pin W_PUMP+, 4-pin CHA_FAN1-2)

Connect the fan cables to the fan connectors on the motherboard, ensuring that the black wire of each cable matches the ground pin of the connector.



- DO NOT forget to connect the fan cables to the fan connectors. Insufficient air flow inside the system may damage the motherboard components. These are not jumpers!
 Do not place jumper caps on the fan connectors!
- Ensure that the CPU fan cable is securely installed to the CPU fan connector.



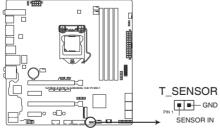
ROG STRIX Z370-G GAMING (WI-FI AC) Fan connectors



- The CPU_FAN connector supports the CPU fan of maximum 1A (12 W) fan power.
- Connect the fan of your water cooling kit to the W PUMP+ connector.

7. Thermal sensor connector (2-pin T_SENSOR1)

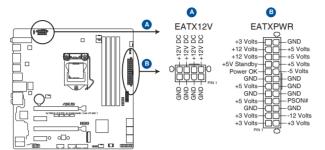
This connector is for the thermistor cable that monitors the temperature of the devices and the critical components inside the motherboard. Connect the thermistor cable and place the sensor on the device or the motherboard's component to detect its temperature.



ROG STRIX Z370-G GAMING (WI-FI AC) T SENSOR connector

8. ATX power connectors (24-pin EATXPWR; 8-pin EATX12V)

These connectors are for ATX power supply plugs. The power supply plugs are designed to fit these connectors in only one orientation. Find the proper orientation and push down firmly until the connectors completely fit.



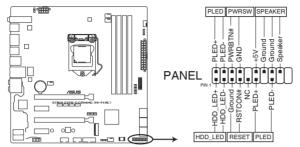
ROG STRIX Z370-G GAMING (WI-FI AC) ATX power connectors



- For a fully configured system, we recommend that you use a power supply unit (PSU) that complies with ATX 12 V Specification 2.0 (or later version) and provides a minimum power of 350 W.
- DO NOT forget to connect the 8-pin EATX12V power plug. Otherwise, the system will not boot.
- 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.

9. System panel connector (20-5 pin PANEL)

This connector supports several chassis-mounted functions.



ROG STRIX Z370-G GAMING (WI-FI AC) System panel connector

System power LED (4-pin +PWR LED-)

This 2-pin connector is for the system power LED. Connect the chassis power LED cable to this connector. The system power LED lights up when you turn on the system power, and blinks when the system is in sleep mode.

Hard disk drive activity LED (2-pin +HDD_LED-)

This 2-pin connector is for the HDD Activity LED. Connect the HDD Activity LED cable to this connector. The HDD LED lights up or flashes when data is read from or written to the HDD.

System warning speaker (4-pin SPEAKER)

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

ATX power button/soft-off button (2-pin PWR SW)

This connector is for the system power button. Pressing the power button turns the system on or puts the system in sleep or soft-off mode depending on the operating system settings. Pressing the power switch for more than four seconds while the system is ON turns the system OFF.

Reset button (2-pin RESET)

This 2-pin connector is for the chassis-mounted reset button for system reboot without turning off the system power.

Basic Installation

2

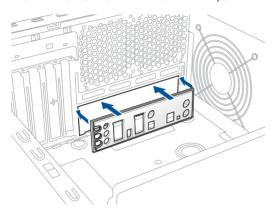
2.1 Building your PC system



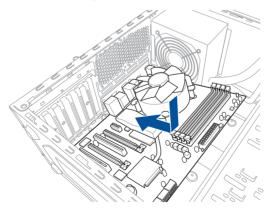
The diagrams in this section are for reference only. The motherboard layout may vary with models, but the installation steps are the same for all models.

2.1.1 Motherboard installation

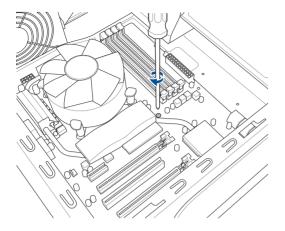
1. Install the ASUS Q-Shield to the chassis rear I/O panel.

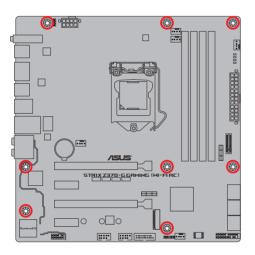


2. Place the motherboard into the chassis, ensuring that its rear I/O ports are aligned to the chassis' rear I/O panel.



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





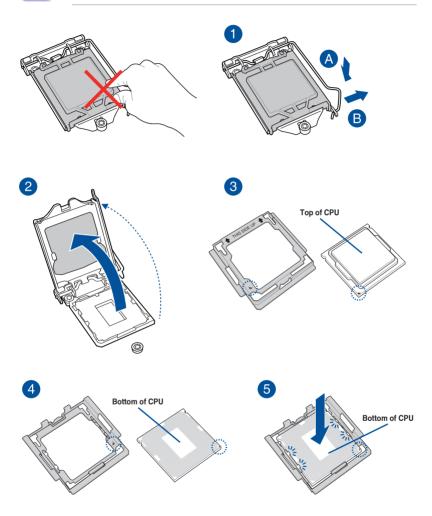


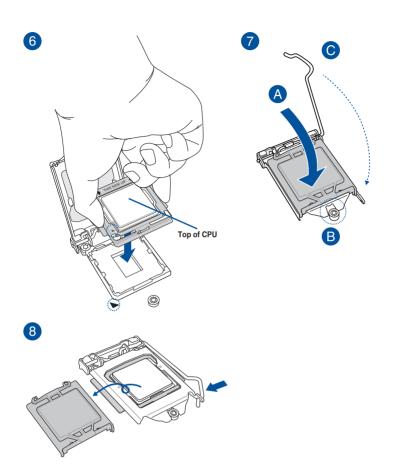
DO NOT overtighten the screws! Doing so can damage the motherboard.

2.1.2 CPU installation



Ensure that you install the correct CPU designed for LGA1151 socket only. DO NOT install a CPU designed for LGA1155 and LGA1156 sockets on the LGA1151 socket.







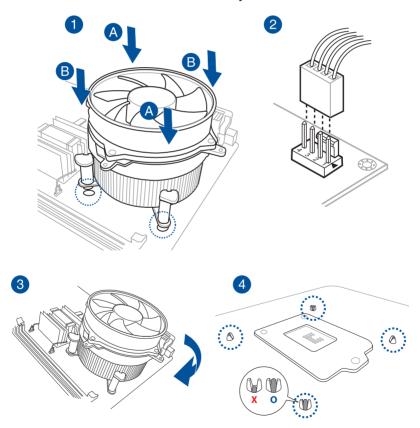
- The CPU Installation Tool is only compatible on ASUS motherboards with a Intel® LGA1151 socket.
- Ensure that the CPU is firmly clicked into place before installing it onto the CPU socket on the motherboard.
- Use the CPU Installation Tool for installing the CPU only. DO NOT damage or bend the CPU Installation Tool.
- Always firmly hold both sides of the CPU Installation Tool when installing, removing, or picking up the CPU Installation Tool.
- Ensure to use a soft stable surface when installing the CPU to the CPU Installation Tool to prevent CPU damage.
- ASUS will not cover damages resulting from incorrect CPU installation/removal, incorrect CPU orientation/placement, or other damages resulting from negligence by the user.

2.1.3 CPU heatsink and fan assembly installation

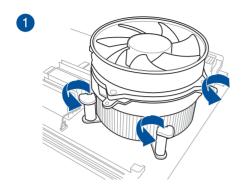


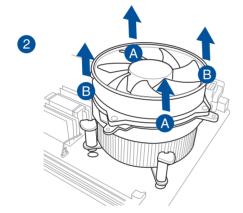
Apply the Thermal Interface Material to the CPU heatsink and CPU before you install the heatsink and fan, if necessary.

To install the CPU heatsink and fan assembly

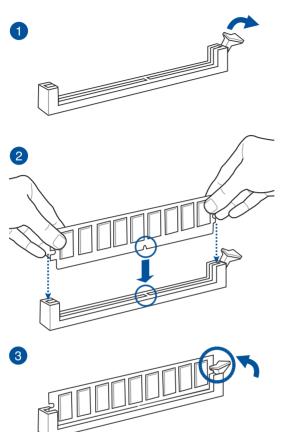


To uninstall the CPU heatsink and fan assembly

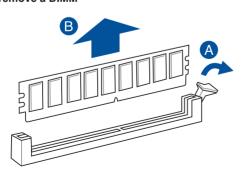




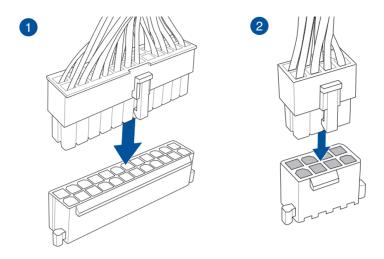
2.1.4 DIMM installation



To remove a DIMM



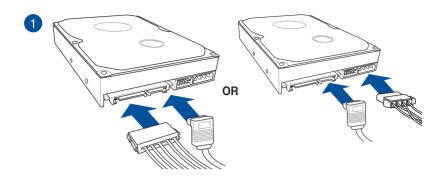
2.1.5 ATX power connection

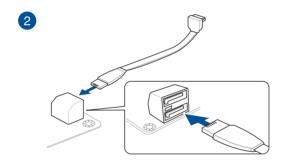




Ensure to connect the 8-pin power plug.

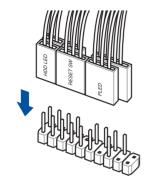
2.1.6 SATA device connection



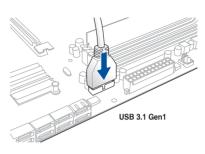


2.1.7 Front I/O connector

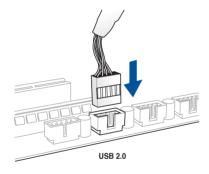
To install front panel connector



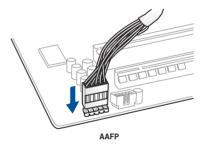
To install USB 3.1 Gen1 connector



To install USB 2.0 connector

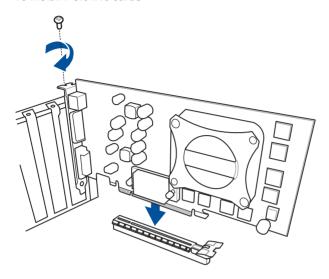


To install front panel audio connector

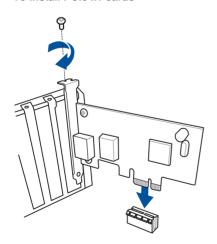


2.1.8 Expansion card installation

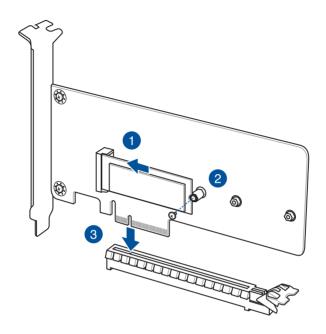
To install PCle x16 cards



To install PCle x1 cards



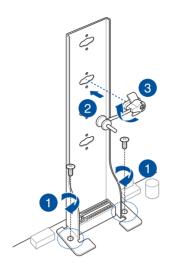
To install HYPER M.2 x4 card

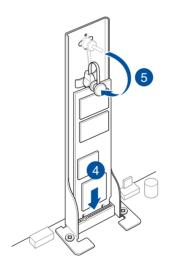




The SSD card is purchased separately.

2.1.9 M.2 installation



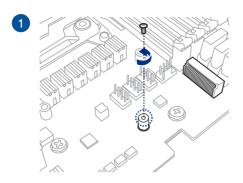


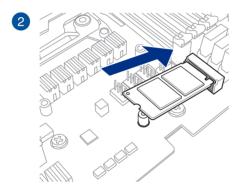


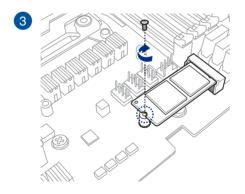
Supported M.2 type varies per motherboard.



Use the bundled M.2 screws to secure the M.2.









Supported M.2 type varies per motherboard.

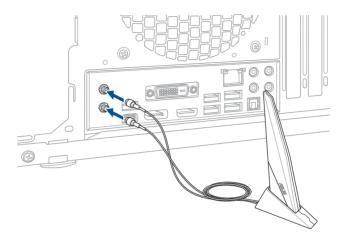


Use the bundled M.2 screws to secure the M.2.

2.1.10 Wi-Fi antenna installation

Installing the ASUS 2x2 dual band W-Fi antenna

Connect the bundled ASUS 2x2 dual band Wi-Fi antenna connector to the Wi-Fi ports at the back of the chassis.





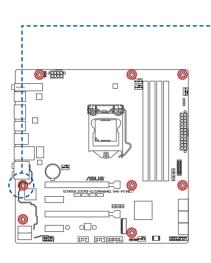
- Ensure that the ASUS 2x2 dual band Wi-Fi antenna is securely installed to the Wi-Fi
 ports.
- Ensure that the antenna is at least 20 cm away from all persons.

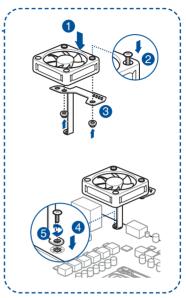


The illustration above is for reference only. The I/O port layout may vary with models, but the Wi-Fi antenna installation procedure is the same for all models.

2.1.11 Fan holder installation

To install the Fan holder and fan







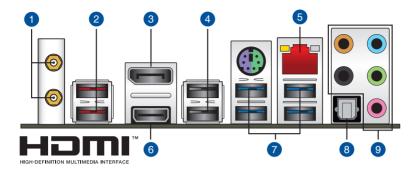
When using high performance settings whilst overclocking, ensure to install the fan holder for additional fan(s).



- You may install 40mm x 40mm fans or 50mm x 50mm fans.
- Fans are purchased separately.

2.2 Motherboard rear and audio connections

2.2.1 Rear I/O connection



Rea	Rear panel connectors				
1.	Wi-Fi 802.11 a/b/g/n/ac, Bluetooth V4.2*	6.	HDMI 1.4b port		
2.	USB 3.1 Gen2 Type-A port	7.	USB 3.1 Gen1 ports		
3.	DisplayPort	8.	Optical S/PDIF Out port		
4.	USB 2.0 ports	9.	Audio I/O ports***		
5.	Intel® LAN port (LAN1)**				

^{*} Support for the Bluetooth specification depends on the Windows® version.

^{**} and ***: Refer to the tables on the next page for LAN port LEDs and audio port definitions.



- The plugged USB 3.1 Gen1 device may run on xHCl mode or EHCl mode, depending on the operating system's setting.
- USB 3.1 Gen1 devices can only be used as data storage only.
- We strongly recommend that you connect USB 3.1 Gen1 devices to USB 3.1 Gen1 ports for faster and better performance for your USB 3.1 Gen1 devices.

** LAN ports LED indications

Activity Link LED		Speed LED		
Status	Description	Status	Description	
Off	No link	Off	10 Mbps connection	
Orange	Linked	Orange	100 Mbps connection	
Orange (Blinking)	Data activity	Green	1 Gbps connection	
Orange (Blinking then steady)	Ready to wake up from S5 mode			





You can disable the LAN controllers in BIOS. Due to hardware design, the LAN1 port's LEDs may continue to blink even when disabled.

*** Audio 2, 4, 6, or 8-channel configuration

Port	Headset 2-channel	4-channel 6-channel		8-channel	
Light Blue	Line In	Line In	Line In	Side speaker	
Lime	Lime Line Out Front Speaker Out		Front Speaker Out	Front Speaker Out	
Pink	Pink Mic In Mic In		Mic In	Mic In	
Orange – –		Center/Subwoofer	Center/Subwoofer		
Black -		Rear Speaker Out	Rear Speaker Out	Rear Speaker Out	

2.2.2 Audio I/O connections

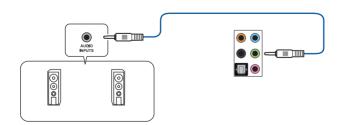
Audio I/O ports



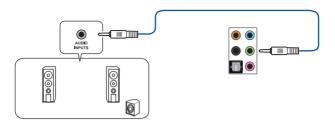
Connect to Headphone and Mic



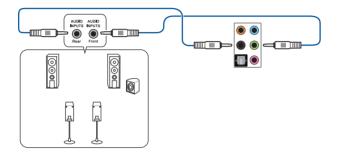
Connect to Stereo Speakers



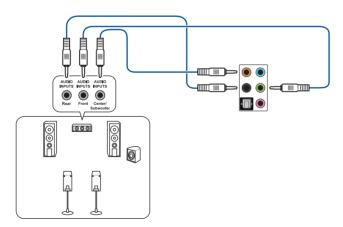
Connect to 2 channel Speakers



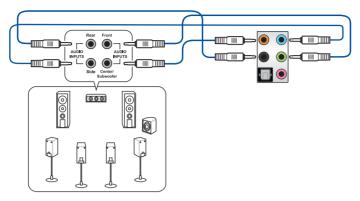
Connect to 4 channel Speakers



Connect to 6 channel Speakers



Connect to 8 channel Speakers



2.3 Starting up for the first time

- 1. After making all the connections, replace the system case cover.
- 2. 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 SCSI 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.

2.4 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 switch for more than four seconds to let the system enter the soft-off mode regardless of the BIOS setting.

BIOS Setup



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 **Z370GGWA.CAP** for this motherboard

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.



- The BIOS setup screens shown in this section are for reference purposes only, and may not exactly match what you see on your screen.
- 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>. See section 3.10 Exit Menu for details.
- If the system fails to boot after changing any BIOS setting, try to clear the CMOS and reset the motherboard to the default value. See section 1.1.6 Jumpers and holes for information on how to erase the RTC RAM via the Clear CMOS jumper.
- The BIOS setup program does not support the Bluetooth devices.



Please visit ASUS website for the detailed BIOS content manual.

BIOS menu screen

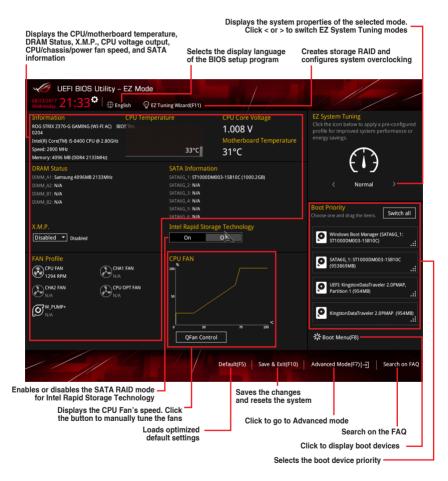
The BIOS Setup program can be used under two modes: **EZ Mode** and **Advanced Mode**. You can change modes from **Setup Mode** in **Boot menu** or by pressing the <F7> hotkey.

3.2.1 F7 Mode

By default, the EZ Mode screen appears when you enter the BIOS setup program. The EZ Mode provides you an overview of the basic system information, and allows you to select the display language, system performance, mode and boot device priority. To access the Advanced Mode, select **Advanced Mode** or press the <F7> hotkey for the advanced BIOS settings.



The default screen for entering the BIOS setup program can be changed. Refer to the **Setup Mode** item in section **Boot menu** for details.





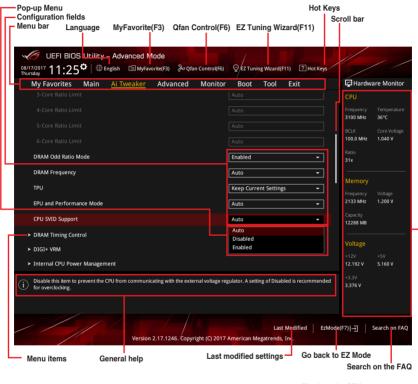
The boot device options vary depending on the devices you installed to the system.

3.2.2 Advanced Mode

The Advanced Mode provides advanced options for experienced end-users to configure the BIOS settings. The figure below shows an example of the Advanced Mode. Refer to the following sections for the detailed configurations.



To switch from EZ Mode to Advanced Mode, click **Advanced Mode(F7)** or press the <F7> hotkey.



Displays the CPU temperature, CPU, and memory voltage output

Menu bar

The menu bar on top of the screen has the following main items:

My Favorites For saving the frequently-used system settings and con			
Main	For changing the basic system configuration		
Ai Tweaker For changing the overclocking settings			
Advanced	For changing the advanced system settings		
Monitor	For displaying the system temperature, power status, and changing the fan settings.		
Boot	For changing the system boot configuration		
Tool For configuring options for special functions			
Exit For selecting the exit options and loading default setting			

Menu items

The highlighted item on the menu bar displays the specific items for that menu. For example, selecting **Main** shows the Main menu items.

The other items (My Favorites, Ai Tweaker, Advanced, Monitor, Boot, Tool, and Exit) on the menu bar have their respective menu items.

Submenu items

A greater than sign (>) before each item on any menu screen means that the item has a submenu. To display the submenu, select the item and press <Enter>.

Language

This button above the menu bar contains the languages that you can select for your BIOS. Click this button to select the language that you want to display in your BIOS screen.

My Favorites(F3)

This button above the menu bar shows all BIOS items in a Tree Map setup. Select frequently-used BIOS settings and save it to MyFavorites menu.



Refer to section 3.3 My Favorites for more information.

Q-Fan Control(F6)

This button above the menu bar displays the current settings of your fans. Use this button to manually tweak the fans to your desired settings.



Refer to section 3.2.3 QFan Control for more information.

EZ Tuning Wizard(F11)

This button above the menu bar allows you to view and tweak the overclocking settings of your system. It also allows you to change the motherboard's SATA mode from AHCI to RAID mode.



Refer to section 3.2.4 EZ Tuning Wizard for more information.

Search on FAQ

Move your mouse over this button to show a QR code, scan this QR code on your mobile device to connect to the BIOS FAQ web page of the ASUS support website. You can also scan the following QR code:



Hot kevs

This button above the menu bar contains the navigation keys for the BIOS setup program. Use the navigation keys to select items in the menu and change the settings.

Scroll bar

A scroll bar appears on the right side of a menu screen when there are items that do not fit on the screen. Press the Up/Down arrow keys or <Page Up> / <Page Down> keys to display the other items on the screen.

General help

At the bottom of the menu screen is a brief description of the selected item. Use <F12> key to capture the BIOS screen and save it to the removable storage device.

Configuration fields

These fields show the values for the menu items. If an item is user-configurable, you can change the value of the field opposite the item. You cannot select an item that is not user-configurable.

A configurable field is highlighted when selected. To change the value of a field, select it and press <Enter> to display a list of options.

Last Modified button

This button shows the items that you last modified and saved in BIOS Setup.

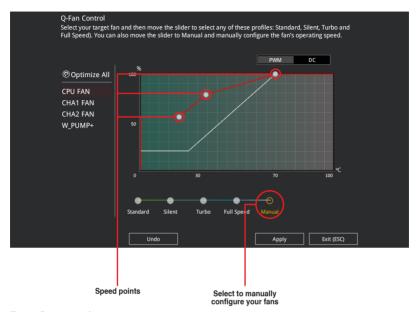
3.2.3 QFan Control

The QFan Control allows you to set a fan profile or manually configure the operating speed of your CPU and chassis fans.



Configuring fans manually

Select Manual from the list of profiles to manually configure your fans' operating speed.

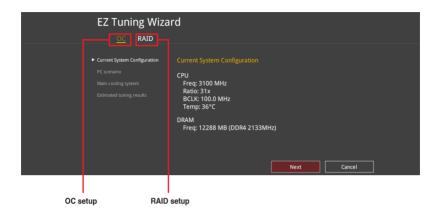


To configure your fans:

- 1. Select the fan that you want to configure and to view its current status.
- 2. Click and drag the speed points to adjust the fans' operating speed.
- 3. Click Apply to save the changes then click Exit (ESC).

3.2.4 EZ Tuning Wizard

EZ Tuning Wizard allows you to easily overclock your CPU and DRAM, computer usage, and CPU fan to their best settings. You can also set RAID in your system using this feature.



OC Tuning

To start OC Tuning:

- Press <F11> on your keyboard or click

 ☐ EZ Tuning Wizard(F11) from the BIOS screen to open EZ Tuning Wizard screen.
- 2. Click OC then click Next.
- 3. Select a PC scenario Daily Computing or Gaming/Media Editing, then click Next.



 Select a Main Cooling System BOX cooler, Tower cooler, Water cooler, or I'm not sure, then click Next.



 After selecting the Main Cooling System, click Next then click Yes to start the OC Tuning.

Creating RAID

To create RAID:

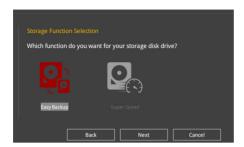
- 2. Click RAID then click Next.



- Ensure that your HDDs have no existing RAID volumes.
- Ensure to connect your HDDs to Intel® SATA connectors.
- 3. Select the port that you want to set to [RAID] mode, PCIE or SATA, then click Next.



 Select the type of storage for your RAID, Easy Backup or Super Speed, then click Next.



 For Easy Backup, click Next then select from Easy Backup (RAID1) or Easy Backup (RAID10).





You can only select Easy Backup (RAID 10) if you connect four (4) HDDs.

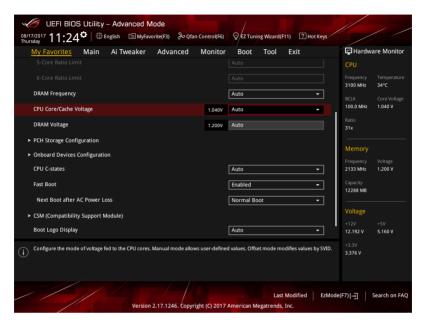
 For Super Speed, click Next then select from Super Speed (RAID0) or Super Speed (RAID5).



- 5. After selecting the type of RAID, click **Next** then click **Yes** to continue the RAID setup.
- After the RAID setup is done, click **Yes** to exit the setup then click **OK** to reset your system.

3.3 My Favorites

My Favorites is your personal space where you can easily save and access your favorite BIOS items.

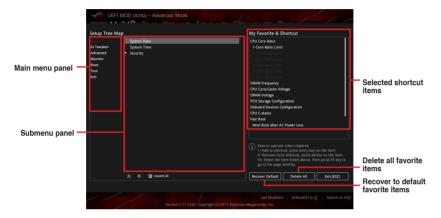


My Favorites comes with several performance, power saving, and fast boot related items by default. You can personalize this screen by adding or removing items.

Adding items to My Favorites

To add BIOS items:

- Press <F3> on your keyboard or click Setup Tree Map screen.
- On the Setup Tree Map screen, select the BIOS items that you want to save in My Favorites screen.



3. Select an item from main menu panel, then click the submenu that you want to save as favorite from the submenu panel and click + or press <Enter> on your keyboard.



You cannot add the following items to My Favorite items:

- · Items with submenu options
- User-managed items such as language and boot order
- · Configuration items such as Memory SPD Information, system time and date.
- 4. Click Exit (ESC) or press < Esc> key to close Setup Tree Map screen.
- 5. Go to My Favorites menu to view the saved BIOS items.

3.4 Main menu

The Main menu screen appears when you enter the Advanced Mode of the BIOS Setup program. The Main menu provides you an overview of the basic system information, and allows you to set the system date, time, language, and security settings.

Security

The Security menu items allow you to change the system security settings.



- If you have forgotten your BIOS password, erase the CMOS Real Time Clock (RTC) RAM to clear the BIOS password. See section 1.1.6 Jumpers and holes for information on how to erase the RTC RAM via the Clear CMOS button.
- The Administrator or User Password items on top of the screen show the default [Not Installed]. After you set a password, these items show [Installed].

3.5 Ai Tweaker menu

The Ai Tweaker menu items allow you to configure overclocking-related items.



Be cautious when changing the settings of the Ai Tweaker menu items. Incorrect field values can cause the system to malfunction



The configuration options for this section vary depending on the CPU and DIMM model you installed on the motherboard.

Ai Overclock Tuner

Allows you to select the CPU overclocking options to achieve the desired CPU internal frequency. Configuration options:

[Auto] Loads the optimal settings for the system.

[Manual] Allows you to individually set overclocking parameters.

[X.M.P.] If you install memory modules supporting the eXtreme Memory Profile (X.M.P.) Technology, choose this item to set the profiles supported by your

memory modules for optimizing the system performance.



The [X.M.P.] configuration option appears only when you install memory modules supporting the eXtreme Memory Profile(X.M.P.) Technology.



The following item appears only when you set the Ai Overclocking Tuner to [Manual].

BCLK Frequency

This item allows you to set the BCLK (base clock) frequency to enhance the system performance. Use the <+> or <-> to adjust the value. The values range from 40.0 MHz to 650.0 MHz



We recommend you to set the value based on the CPU specification, as high BCLK frequencies may damage the CPU permanently.

ASUS MultiCore Enhancement

[Auto] This item allows you to maximize the oveclocking performance optimized

by ASUS core ratio settings.

[Disabled] This item allows you to set to default core ratio settings.

CPU Core Ratio

This item allows you to set the CPU core ratios.

Configuration options: [Auto] [Sync All Cores] [Per Core]

DRAM Odd Ratio Mode

Allows you to enable or disable the Odd Ratio Mode, which provides better granularity.

Configuration options: [Disabled] [Enabled]

DRAM Frequency

This item allows you to set the memory operating frequency. The configurable options vary with the BCLK (base clock) frequency setting. Select the auto mode to apply the optimized setting. Configuration options: [Auto] [DDR4-800MHz] - [DDR4-4266MHz]

TPU

This item allows you to automatically overclock the CPU and DRAM frequencies and voltage for an enhanced system performance.

[Keep Current Settings] Keep the current settings without changing anything.

[TPU I] Applies air cooling overclocking conditions.

[TPU II] Applies water cooling overclocking conditions.



Ensure to use water cooling device before selecting [TPU II].

Internal CPU Power Management

The subitems in this menu allow you to set the CPU ratio and features.

Intel(R) SpeedStep(tm)

Allows the operating system to dynamically adjust the processor voltage and cores frequency to decrease the average power consumption and decrease average heat production.

Configuration options: [Auto] [Disabled] [Enabled]

Turbo Mode

Allows you to enable your processor cores to run faster than the base operating frequency when it is below power, current and specification limit.

Configuration options: [Disabled] [Enabled]

3.6 Advanced menu

The Advanced menu items allow you to change the settings for the CPU and other system devices



Be cautious when changing the settings of the Advanced menu items. Incorrect field values can cause the system to malfunction.

3.6.1 Platform Misc Configuration

The items in this menu allow you to change the ASPM for PCH and SA PCI Express.

3.6.2 CPU Configuration

The items in this menu show the CPU-related information that the BIOS automatically detects.



The items in this menu may vary based on the CPU installed.

Hyper-threading

This item allows a hyper-threading processor to appear as two logical processors, allowing the operating system to schedule two threads or processors simultaneously.

Configuration options: [Disabled] [Enabled]

CPU - Power Management Control

This item allows you to manage and configure the CPU's power.

Intel(R) SpeedStep(tm)

This item allows more than two frequency to be supported.

Configuration options: [Auto] [Disabled] [Enabled]

Turbo Mode

This item allows you to automatically set the CPU cores to run faster than the base operating frequency when it is below the operating power, current and temperature specification limit.

Configuration options: [Disabled] [Enabled]

CPU C states

This item allows you to set the power saving of the CPU states.

Configuration options: [Auto] [Disabled] [Enabled]

CFG Lock

This item allows you to configure MSR 0xE2[15], CFG lock bit. Configuration options: [Disabled] [Enabled]

3.6.3 System Agent (SA) Configuration

The items in this menu allow you to adjust the Link Speed for PEG Port and Multi-Monitor.

3.6.4 PCH Configuration

The items in this menu allow you to adjust the PCH PCI Express speed.

PCI Express Configuration

This item allows you to configure the PCI Express slots.

PCIe Speed

This item allows your system to automatically select the PCI Express port speed. Configuration options: [Auto] [Gen1] [Gen2] [Gen3]

3.6.5 PCH Storage Configuration

While entering Setup, the BIOS automatically detects the presence of SATA devices. The SATA Port items show **Not Present** if no SATA device is installed to the corresponding SATA port.

SATA Controller(s)

This item allows you to enable or disable the SATA Device.

Configuration options: [Enabled] [Disabled]

SATA Mode Selection

This item allows you to set the SATA configuration.

[AHCI] Set to [AHCI] when you want the SATA hard disk drives to

use the AHCI (Advanced Host Controller Interface). The AHCI allows the onboard storage driver to enable advanced Serial ATA features that increases storage performance on random workloads by allowing the drive to internally

optimize the order of commands.

[Intel RST Premium With Intel Optane System

Acceleration(RAID)]

Set to [Intel RST Premium With Intel Optane System Acceleration(RAID)] when you want to create a RAID

configuration from the SATA hard disk drives.

SMART Self Test

SMART (Self-Monitoring, Analysis and Reporting Technology) is a monitoring system that shows a warning message during POST (Power-on Self Test) when an error occurs in the hard disks.

Configuration options: [On] [Off]

SATA6G 1(Charcoal Black) - SATA6G 6(Charcoal Black)

SATA6G_1(Charcoal Black) - SATA6G_6(Charcoal Black)

This item allows you to enable or disable the selected SATA port.

Configuration options: [Disabled] [Enabled]

Hot Plug

These items appears only when the SATA Mode Selection is set to [AHCI] and allows you to enable or disable SATA Hot Plug Support.

Configuration options: [Disabled] [Enabled]

3.6.6 PCH-FW Configuration

This item allows you to configure the firmware TPM.

3.6.7 Onboard Devices Configuration

The items in this menu allow you to switch between PCIe Lanes and configure onboard devices.

Hyper M.2X16 [Enabled][Disabled]

[Disabled] Only one SSD installed onto the Hyper M.2 X16 card can be detected.

Two or three SSDs installed onto the Hyper M.2 X16 card can be detected.



The number of SSDs that can be detected varies with the configurations of the PCle X16 slots

HD Audio Controller

This item allows you to use the Azalia High Definition Audio Controller.

Configuration options: [Disabled] [Enabled]

M.2_1 Configuration: [Auto][SATA mode][PCIE mode]

[Auto] Auto-detects the M.2 device mode. If a SATA device is detected.

SATA6G 1 will be disabled.

[SATA mode] Only supports M.2 SATA devices. Please note that SATA6G_1 port cannot

be used in this mode.

[PCIE mode] Only supports M.2 PCIE devices.

Intel LAN Controller

This item allows you to enable or disable the Intel LAN controllers.

Configuration options: [Disabled] [Enabled]

3.6.8 APM Configuration

The items in this menu allow you to set system wake and sleep settings.

ErP Ready

This item allows you to switch off some power at S4+S5 or S5 to get the system ready for ErP requirement. When set to **[Enabled]**, all other PME options are switched off.

Configuration options: [Disabled] [Enable(S4+S5)] [Enable(S5)]

3.6.9 Network Stack Configuration

The items in this menu allow you to configure Ipv4 / Ipv6 PXE support.

3.6.10 HDD/SSD SMART Information

The items in this menu display the SMART information of the connected devices.



NVM Express devices do not support SMART information.

3.6.11 USB Configuration

The items in this menu allow you to change the USB-related features.



The **Mass Storage Devices** item shows the auto-detected values. If no USB device is detected, the item shows **None**.

USB Single Port Control

This item allows you to enable or disable the individual USB ports.



Refer to section 1.1.2 Motherboard layout for the location of the USB ports.

3.7 Monitor menu

The Monitor menu displays the system temperature/power status, and allows you to change the fan settings.

Qfan Configuration

Qfan Tuning

Click this item to automatically detect the lowest speed and configure the minimum duty cycle for each fan.

3.8 Boot menu

The Boot menu items allow you to change the system boot options.

Fast Boot

[Disabled] Allows your system to go back to its normal boot speed.

[Enabled] Allows your system to accelerate the boot speed.



The following items appear only when you set the Fast Boot to [Enabled].

Next Boot after AC Power Loss

[Normal Boot] Returns to normal boot on the next boot after an AC power loss.

[Fast Boot] Accelerates the boot speed on the next boot after an AC power loss.

Setup Mode

[Advanced Mode] This item allows you to go to Advanced Mode of the BIOS after

POST.

[EZ Mode] This item allows you to go to EZ Mode of the BIOS after POST.

CSM (Compatibility Support Module)

This item allows you to configure the CSM (Compatibility Support Module) items to fully support the various VGA, bootable devices and add-on devices for better compatibility.

Launch CSM

[Auto] The system automatically detects the bootable devices and the add-

on devices.

[Enabled] For better compatibility, enable the CSM to fully support the non-UEFI

driver add-on devices or the Windows® UEFI mode.

[Disabled] Disable the CSM to fully support the non-UEFI driver add-on devices

or the Windows® UFFI mode



The following items appear only when you set the Launch CSM to [Enabled].

Boot Devices Control

This item allows you to select the type of devices that you want to boot. Configuration options: [UEFI and Legacy OPROM] [Legacy OPROM only] [UEFI only]

Boot from Network Devices

This item allows you to select the type of network devices that you want to launch.

Configuration options: [Ignore] [Legacy only] [UEFI driver first]

Boot from Storage Devices

This item allows you to select the type of storage devices that you want to launch.

Configuration options: [Ignore] [Legacy only] [UEFI driver first]

Boot from PCI-E Expansion Devices

This item allows you to select the type of PCI-E expansion devices that you want to launch.

Configuration options: [Legacy only] [UEFI driver first]

Secure Boot

This item allows you to configure the Windows® Secure Boot settings and manage its keys to protect the system from unauthorized access and malwares during POST.

Boot Option Priorities

These items specify the boot device priority sequence from the available devices. The number of device items that appears on the screen depends on the number of devices installed in the system.



- To access Windows® OS in Safe Mode, press <F8> after POST (Windows® 8 not supported).
- To select the boot device during system startup, press <F8> when the ASUS Logo appears.

Boot Override

These items displays the available devices. The number of device items that appears on the screen depends on the number of devices installed in the system. Click an item to start booting from the selected device.

3.9 Tool menu

The Tool menu items allow you to configure options for special functions. Select an item then press <Enter> to display the submenu.

Setup Animator

This item allows you to enable or disable the Setup animator.

Configuration options: [Enabled] [Disabled]

3.9.1 ASUS EZ Flash 3 Utility

This item allows you to run ASUS EZ Flash 3. When you press <Enter>, a confirmation message appears. Use the left/right arrow key to select between [Yes] or [No], then press <Enter> to confirm your choice.



For more details, refer to section 3.11.2 ASUS EZ Flash 3.

3.9.2 Secure Erase

SSD speeds may lower over time as with any storage medium due to data processing. Secure Erase completely and safely cleans your SSD, restoring it to factory performance levels



Secure Erase is only available in AHCI mode. Ensure to set the SATA mode to AHCI. Click Advanced > PCH Storage Configuration > SATA Mode Selection > AHCI.

To launch Secure Erase, click **Tool** > **Secure Erase** on the Advanced mode menu.



Secure Erase is only supported on selected SATA SSDs, and cannot erase NVMe storage devices.



- The time to erase the contents of your SSD may take a while depending on its size.
 Do not turn off the system during the process.
- Secure Erase is only supported on Intel SATA port. For more information about Intel SATA ports, refer to section 1.1.2 Motherboard layout of this manual.





Status definition:

- Frozen. The frozen state is the result of a BIOS protective measure. The BIOS guards drives that do not have password protection by freezing them prior to booting. If the drive is frozen, a power off or hard reset of your PC must be performed to proceed with the Secure Erase.
- Locked. SSDs might be locked if the Secure Erase process is either incomplete
 or was stopped. This may be due to a third party software that uses a different
 password defined by ASUS. You have to unlock the SSD in the software before
 proceeding with Secure Erase.

3.9.3 ASUS Overclocking Profile

This item allows you to store or load multiple BIOS settings.

Load Profile

This item allows you to load the previous BIOS settings saved in the BIOS Flash. Key in the profile number that saved your BIOS settings, press <Enter>, and then select **Yes**.



- DO NOT shut down or reset the system while updating the BIOS to prevent the system boot failure!
- We recommend that you update the BIOS file only coming from the same memory/ CPU configuration and BIOS version.

Profile Name

This item allows you to key in a profile name.

Save to Profile

This item allows you to save the current BIOS settings to the BIOS Flash, and create a profile. Key in a profile number from one to eight, press <Enter>, and then select **Yes**.

Load/Save Profile from/to USB Drive

This item allows you to load or save profile from your USB drive, load and save profile to your USB drive.

3.9.4 ASUS SPD Information

This item allows you to view the DRAM SPD information.

3.9.5 Graphics Card Information

This item displays the information about the graphics card installed in your system.

GPU Post

This item displays the information and recommended configuration for the PCIE slots that the graphics card is installed in your system.



This feature is only supported on selected ASUS graphics cards.

3.10 Exit menu

The Exit menu items allow you to load the optimal default values for the BIOS items, and save or discard your changes to the BIOS items. You can access the EZ Mode from the Exit menu.

Load Optimized Defaults

This option allows you to load the default values for each of the parameters on the Setup menus. When you select this option or if you press <F5>, a confirmation window appears. Select **OK** to load the default values.

Save Changes & Reset

Once you are finished making your selections, choose this option from the Exit menu to ensure the values you selected are saved. When you select this option or if you press <F10>, a confirmation window appears. Select **OK** to save changes and exit.

Discard Changes and Exit

This option allows you to exit the Setup program without saving your changes. When you select this option or if you press <Esc>, a confirmation window appears. Select **Yes** to discard changes and exit.

Launch EFI Shell from USB drives

This item allows you to attempt to launch the EFI Shell application (shellx64.efi) from one of the available filesystem devices.

3.11 Updating BIOS

The ASUS website publishes the latest BIOS versions to provide enhancements on system stability, compatibility,and performance. However, BIOS updating is potentially risky. If there is no problem using the current version of BIOS, DO NOT manually update the BIOS. Inappropriate BIOS updating may result to system's failure to boot. Carefully follow the instructions in this chapter to update your BIOS when necessary.



Visit http://www.asus.com to download the latest BIOS file for this motherboard.

The following utilities allow you to manage and update the motherboard BIOS setup program.

- 1. EZ Update: Updates the BIOS in Windows® environment.
- 2. ASUS EZ Flash 3: Updates the BIOS using a USB flash drive.
- ASUS CrashFree BIOS 3: Restores the BIOS using the motherboard support DVD or a USB flash drive when the BIOS file fails or gets corrupted.

3.11.1 **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 DVD that comes with the motherboard package.

3.11.2 ASUS EZ Flash 3

ASUS EZ Flash 3 allows you to download and update to the latest BIOS through the Internet without having to use a bootable floppy disk or an OS-based utility.



Updating through the Internet varies per region and Internet conditions. Check your local Internet connection before updating through the Internet.

To update the BIOS via Storage Device(s):

- Enter the Advanced Mode of the BIOS setup program. Go to the Tool menu to select ASUS EZ Flash Utility and press <Enter>.
- 2. Insert the USB flash disk that contains the latest BIOS file to the USB port.
- 3. Select via Storage Device(s).



- 4. 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>.
- 6. Press <Tab> to switch to the Folder Info field.
- 7. 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.





- 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!



Ensure to load the BIOS default settings to ensure system compatibility and stability. Select the Load Optimized Defaults item under the Exit menu. See section **3.10 Exit Menu** for details.

To update the BIOS via Internet:

- Enter the Advanced Mode of the BIOS setup program. Go to the Tool menu to select ASUS EZ Flash Utility and press <Enter>.
- 2. Select via Internet.



Press the Left/Right arrow keys to select an Internet connection method, and then press <Enter>.



- 4. Follow the onscreen instructions to complete the update.
- 5. Reboot the system when the update process is done.



Ensure to load the BIOS default settings to ensure system compatibility and stability. Select the Load Optimized Defaults item under the Exit menu. See section **3.10 Exit Menu** for details.

3.11.3 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 https://www.asus.com/support/ 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!

	_
	_
	_
	_
	_
	_
	_
	_
	_
	_
	_
	_
	_

RAID Support

4

4.1 RAID configurations

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



If you want to install a Windows® operating system to a hard disk drive included in a RAID set, you have to create a RAID driver disk and load the RAID driver during OS installation. Refer to section **4.2 Creating a RAID driver disk** for details.

4.1.1 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.

4.1.2 Installing Serial ATA hard disks

The motherboard supports Serial ATA hard disk drives. For optimal performance, install identical drives of the same model and capacity when creating a disk array.

To install the SATA hard disks for a RAID configuration:

- 1. Install the SATA hard disks into the drive bays.
- 2. Connect the SATA signal cables.
- 3. Connect a SATA power cable to the power connector on each drive.

4.1.3 Intel® Rapid Storage Technology in UEFI BIOS

To enter the Intel® Rapid Storage Technology in UEFI BIOS:

- 1. Enter the BIOS Setup during POST.
- 2. Go to the Advanced menu > PCH Storage Configuration, then press < Enter >.
- Set the SATA Controller Mode Selection item to [Intel RST Premium With Intel Optane System Acceleration (RAID)].
- Go to the Boot menu > CSM (Compatibility Support Module) > Launch CSM, then set the item to [Disabled].
- 5. Save your changes and exit the BIOS Setup, then enter the BIOS Setup again.
- Go to the Advanced menu > Intel(R) Rapid Storage Technology, then press <Enter>
 to display the Intel® Rapid Storage Technology menu.



Refer to Chapter 3 for details on entering and navigating through the BIOS Setup



Due to chipset limitation, when SATA ports are set to RAID mode, all SATA ports run at RAID mode together.



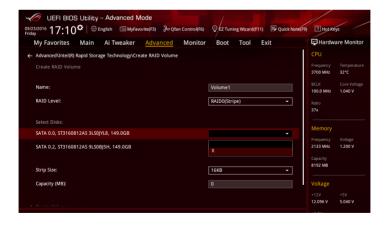
Creating a RAID set

To create a RAID set:

 From the Intel® Rapid Storage Technology menu, select Create RAID Volume and press <Enter>. The following screen appears:



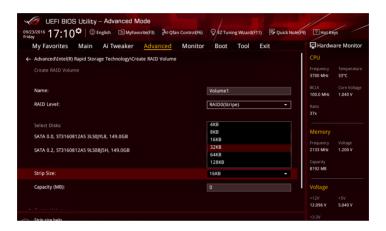
- 2. When the Name item is selected, enter a name for the RAID set and press <Enter>.
- When the RAID Level item is selected, press <Enter> to select the RAID level to create, and then press <Enter>.
- Under Select Disks, press < Enter> and select X for the disks you want to include in the RAID set.



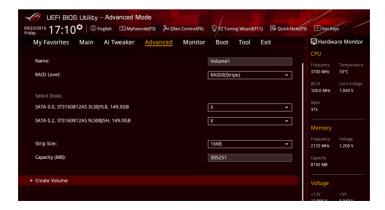
- 5. When the Strip Size item is selected, press <Enter> to select strip size for the RAID array (for RAID 0, 10 and 5 only), and then press <Enter>. The available strip size values range from 4 KB to 128 KB. The following are typical values:
 - RAID 0: 128 KB
 - RAID 10: 64 KB
 - BAID 5: 64 KB



We recommend a lower strip size for server systems, and a higher strip size for multimedia computer systems used mainly for audio and video editing.



- When the Capacity (MB) item is selected, enter the RAID volume capacity that you
 want and press <Enter>. The default value indicates the maximum allowed capacity.
- When the Create Volume item is selected, press <Enter> to create the RAID volume and return to the Intel® Rapid Storage Technology menu.



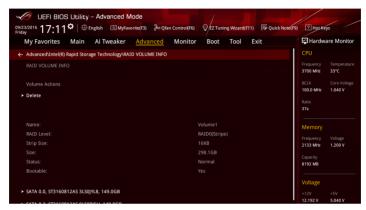
Deleting a RAID set



Be cautious when deleting a RAID set. You will lose all data on the hard disk drives when you delete a RAID set.

To delete a RAID set:

 From the Intel® Rapid Storage Technology menu, select the RAID volume you want to delete and press <Enter>. The following screen appears:



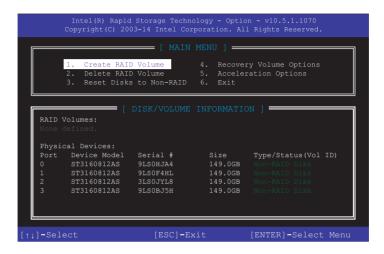
When the **Delete** item is selected, press <Enter>, then select **Yes** to delete the RAID volume and return to the Intel® Rapid Storage Technology menu, or select **No** to cancel.



4.1.4 Intel® Rapid Storage Technology Option ROM utility

To enter the Intel® Rapid Storage Technology Option ROM utility:

- 1. Turn on the system.
- 2. During POST, press <Ctrl> + <l> to display the utility main menu.



The navigation keys at the bottom of the screen allow you to move through the menus and select the menu options.



The RAID BIOS setup screens shown in this section are for reference only and may not exactly match the items on your screen.

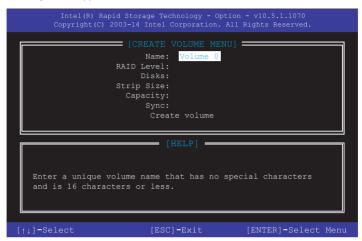


The utility supports maximum four hard disk drives for RAID configuration.

Creating a RAID set

To create a RAID set:

 From the utility main menu, select 1. Create RAID Volume and press <Enter>. The following screen appears:



- 2. Enter a name for the RAID set and press <Enter>.
- When the RAID Level item is selected, press the up/down arrow key to select a RAID level to create, and then press <Enter>.
- 4. When the Disks item is selected, press <Enter> to select the hard disk drives you want to include in the RAID set. The SELECT DISKS screen appears:



- Use the up/down arrow key to select a drive, and then press <Space> to select. A small triangle marks the selected drive. Press <Enter> after completing your selection.
- 6. Use the up/down arrow key to select the strip size for the RAID array (for RAID 0, 10 and 5 only), and then press <Enter>. The available strip size values range from 4KB to 128KB. The following are typical values:

RAID 0: 128KB

RAID 10: 64KB

RAID 5: 64KB



We recommend a lower strip size for server systems, and a higher strip size for multimedia computer systems used mainly for audio and video editing.

- When the Capacity item is selected, enter the RAID volume capacity that you want and press <Enter>. The default value indicates the maximum allowed capacity.
- 8. When the Create Volume item is selected, press <Enter>. The following warning message appears:

WARNING: ALL DATA ON SELECTED DISKS WILL BE LOST.

Are you sure you want to create this volume? (Y/N)

 Press <Y> to create the RAID volume and return to the main menu, or <N> to go back to the CREATE VOLUME menu.

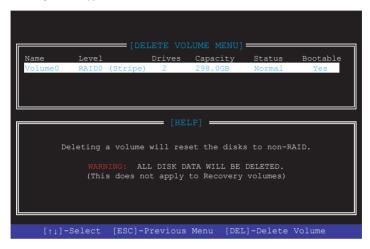
Deleting a RAID set



Be cautious when deleting a RAID set. You will lose all data on the hard disk drives when you delete a RAID set.

To delete a RAID set:

 From the utility main menu, select 2. Delete RAID Volume and press <Enter>. The following screen appears:



 Use the up/down arrow key to select the RAID set you want to delete, and then press <Delete>. The following warning message appears:

```
(This does not apply to Recovery volumes)

Are you sure you want to delete "Volume0"? (Y/N):
```

 Press <Y> to delete the RAID set and return to the utility main menu, or press <N> to return to the DELETE VOLUME menu.

Exiting the Intel® Rapid Storage Technology Option ROM utility

To exit the utility:

 From the utility main menu, select 6. Exit, and then press <Enter>. The following warning message appears:



2. Press <Y> to exit or press <N> to return to the utility main menu.

4.2 Creating a RAID driver disk

4.2.1 Creating a RAID driver disk in Windows®

To install the RAID driver for Windows® OS:

- During the OS installation, click Load Driver to allow you to select the installation media containing the RAID driver.
- Insert the support USB drive with RAID driver into the USB port, and then click Browse.
- Click the name of the device you've inserted, go to Drivers > RAID, and then select the RAID driver for the corresponding OS version. Click OK.
- 4. Follow the succeeding screen instructions to complete the installation.



To set up a Windows® UEFI operating system under RAID mode, ensure to load the UEFI driver for your optical drive.

Appendix

Notices

Federal Communications Commission Statement

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

- This device may not cause harmful interference.
- 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 manufacturer's 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 to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



The use of shielded cables for connection of the monitor to the graphics card is required to assure compliance with FCC regulations. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

HDMI Trademark Notice

The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade dress, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.



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.

Operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

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.

La bande 5150–5250 MHz est réservée uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

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

VCCI: Japan Compliance Statement Class B ITE

この装置は、クラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

VCCI-B

KC: Korea Warning Statement

B급 기기 (가정용 방송통신기자재)

이 기기는 가정용(B급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

*당해 무선설비는 전파혼신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없습니다.

A-2 Appendix

REACH

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.



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.

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 http://csr.asus.com/english/Takeback.htm for detailed recycling information in different regions.

Regional notice for California



WARNING

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

RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

FCC Bluetooth Wireless Compliance

The antenna used with this transmitter must not be co-located or operated in conjunction with any other antenna or transmitter subject to the conditions of the FCC Grant.

Bluetooth Industry Canada Statement

This Class B device meets all requirements of the Canadian interference-causing equipment regulations.

Déclaration d'Industrie Canada relative aux modules sans fil Bluetooth

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

NCC: Taiwan Wireless Statement

無線設備的警告聲明

經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更射頻、加大功率或變更原設計之特性及功能。低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停用,並改善至無干擾時方得繼續使用。前項合法通信指依電信法定作業之無線通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

於 5.25GHz 至 5.35GHz 區域內操作之 無線設備的警告聲明

工作頻率 5.250 ~ 5.350GHz 該頻段限於室內使用。

Japan RF Equipment Statement

屋外での使用について

本製品は、5GHz帯域での通信に対応しています。電波法の定めにより5.2GHz、5.3GHz帯域の電波は屋外で使用が禁じられています。

法律および規制遵守

本製品は電波法及びこれに基づく命令の定めるところに従い使用してください。日本国外では、その国の法律または規制により、本製品の使用ができないことがあります。このような国では、本製品を運用した結果、罰せられることがありますが、当社は一切責任を負いかねますのでご了承ください。

A-4 Appendix

Précautions d'emploi de l'appareil :

- Soyez particulièrement vigilant quant à votre sécurité lors de l'utilisation de cet appareil dans certains lieux (les avions, les aéroports, les hôpitaux, les stations-service et les garages professionnels).
- Évitez d'utiliser cet appareil à proximité de dispositifs médicaux implantés. Si vous portez un implant électronique (stimulateurs cardiaques, pompes à insuline, neurostimulateurs...), veuillez impérativement respecter une distance minimale de 15 centimètres entre cet appareil et l'implant pour réduire les risques d'interférence.
- c. Utilisez cet appareil dans de bonnes conditions de réception pour minimiser le niveau de rayonnement. Ce n'est pas toujours le cas dans certaines zones ou situations, notamment dans les parkings souterrains, dans les ascenseurs, en train ou en voiture ou tout simplement dans un secteur mal couvert par le réseau.
- Tenez cet appareil à distance du ventre des femmes enceintes et du bas-ventre des adolescents

Google™ License Terms

Copyright© 2017 Google Inc. All Rights Reserved.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

Simplified EU Declaration of Conformity

ASUSTek Computer Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. Full text of EU declaration of conformity is available at https://www.asus.com/support/

The WiFi operating in the band 5150-5350MHz shall be restricted to indoor use for countries listed in the table below:

Déclaration simplifiée de conformité de l'UE

ASUSTek Computer Inc. déclare par la présente que cet appareil est conforme aux critères essentiels et autres clauses pertinentes de la directive 2014/53/
EU. La déclaration de conformité de l'UE peut être téléchargée à partir du site internet suivant : https://www.asus.com/support/

Dans la plage de fréquence 5150-5350 MHz, le Wi-Fi est restreint à une utilisation en intérieur dans les pays listés dans le tableau ci-dessous:

Vereinfachte EU-Konformitätserklärung

ASUSTek COMPUTER INC erklärt hiermit, dass dieses Gerät mit den grundlegenden Anforderungen und anderen relevanten Bestimmungen der Richtlinie 2014/53/EU übereinstimmt. Der gesamte Text der EU-Konformitätserklärung ist verfügbar unter: https://www.asus.com/support/

Der WLAN-Betrieb im Band von 5150-5350 MHz ist für die in der unteren Tabelle aufgeführten Länder auf den Innenbereich beschränkt:

Dichiarazione di conformità UE semplificata

ASUSTek Computer Inc. con la presente dichiara che questo dispositivo è conforme ai requisiti essenziali e alle altre disposizioni pertinenti con la direttiva 2014/53/EU. Il testo completo della dichiarazione di conformità UE è disponibile all'Indirizzo: https://www.asus.com/support/

L'utilizzo della rete Wi-Fi con frequenza compresa nell'intervallo 5150-5350MHz deve essere limitato all'interno degli edifici per i paesi presenti nella sequente tabella:

Упрошенное заявление о соответствии европейской лирективе

ASUSTek Computer Inc. заявляет, что устройство соответствует основным требованиям и другим соответствующим условиям директивы 2014/53/EU. Полный текст декларации соответствия EC доступен на https://www.asus.com/support/

Работа WiFi в диапазоне частот 5150-5350 должна быть ограничена использованием в помещениях для стран, перечисленных в таблице ниже:

إعلان التوافق المبسط الصادر عن الاتحاد الأوروبي

تقر شركة ASUSTek Computer أن هذا الجهاز يتوافق مع المتطلبات الأساسية والأحكام الأخرى ذات الصلة الخامضة بتوجه 2014/53/EU. يتوفر النص الكامل لإعلان التوافق الصداد عن الاتحاد الأوروبي على: https://www.asus.com/supopt/

يجب حصر استخدام WiFi العاملة بـ 5350-5150 موجا هر تز على الاستخدام المنزلي للبلدان لمدر حة دالحدول.

Опростена декларация за съответствие на ЕС

С настоящого ASUSTek Computer Inc. декларира, че това устройство е в съответствие със съществените изисквания и другите приложими постановления на свързаната Директива 2014/53/EC. Пълният текст на EC декларация за съвместимост е достъпен на адрес https://www.asus.com/support/

WiFi, работеща в диапазон 5150-5350MHz, трябва да се ограничи до употреба на закрито за страните, посочени в таблицата по-долу:

Declaração de Conformidade UE Simplificada

ASUSTek Computer Inc. declara que este dispositivo está em conformidade com os requisitos essenciais e outras disposições relevantes relacionadas às diretivas 2014/53/UE. O texto completo da declaração de conformidade CE está disponível em https://www.asus.com/support/

O WiFi operando na banda 5150-5350MHz deve ser restrito para uso interno para os países listados na tabela abaixo:

Pojednostavljena EU Izjava o sukladnosti

ASUSTEK Computer Inc. ovim izjavljuje da je ovaj uređaj sukladan s bitnim zahtjevima i ostalim odgovarajućim odredbama direktive 2014/53/EU. Cijeli tekst EU izjave o sukladnosti dostupan je na https://www.asus.com/support/ WiFi koji radi na opsegu frekvencija 5150-5350 MHz bit će ograničen na upotrebu u zatvorenom prostoru u zemljama na donjem popisu:

Zjednodušené prohlášení o shodě EU

Společnost ASUSTek Computer Inc. tímto prohlašuje, že toto zařízení splňuje základní požadavky a další příslušná ustanovení směrnice 2014/53/ EU. Plné znění prohlášení o shodě EU je k dispozici na adrese https://www.asus.com/support/

V zemích uvedených v tabulce je provoz sítě Wi-Fi ve frekvenčním rozsahu 5 150 - 5 350 MHz povolen pouze ve vnitřních prostorech:

Forenklet EU-overensstemmelseserklæring

ASUSTEK Computer Inc. erklærer hermed at denne enhed er i overensstemmelse med hovedkravene og øvrige relevante bestemmelser i direktivet 2014/53/EU. Hele EU-overensstemmelseserklæringen kan findes på https://www.asus.com/support/

Wi-Fi, der bruger 5150-5350 MHz skal begrænses til indendørs brug i lande, der er anført i tabellen:

Vereenvoudigd EU-conformiteitsverklaring

ASUSTEK Computer Inc. verklaart hierbij dat dit apparaat voldoet aan de essentiële vereisten en andere relevante bepalingen van Richtlijn 2014/53/ EU. De volledige tekst van de EU-conformiteitsverklaring is beschikbaar op https://www.asus.com/support/

De WiFi op 5150-5350MHz zal beperkt zijn tot binnengebruik voor in de tabel vermelde landen:

Lihtsustatud EÜ vastavusdeklaratsioon

Käesolevaga kinnitab ASUSTek Computer Inc, et seade vastab direktiivi 2014/53/EÜ olulistele nõuetele ja teistele asjakohastele sätetele. EL vastavusdeklaratsiooni täistekst on saadaval veebisaidil

https://www.asus.com/support/

Sagedusvahemikus 5150-5350 MHz töötava WiFi kasutamine on järgmistes riikides lubatud ainult siseruumides:

Eurooppa - EY:n vaatimustenmukaisuusvakuutus

ASUSTek Computer Inc. ilmoittaa täten, että tämä laite on direktiivin 2014/53/ EU olennaisten vaatimusten ja muiden asiaankuuluvien lisäysten mukainen. Koko EY:n vaatimustenmukaisuusvakuutuksen teksti on luettavissa osoitteessa https://www.asus.com/support/

5 150 - 5 350 MHz:in taajuudella toimiva WiFi on rajoitettu sisäkäyttöön taulukossa luetelluissa maissa:

تبعيت از نسخه ساده شده بيانيه اتحاديه اروپا

ASUSTEk Computer Inc در اینجا اعلام می کند که این دستگاه با نیاز های اساسی و سایر مقررات مربوط به بیانیه 2014/53/EU. مطابقت دارد. مثن کامل پیروی از این بیانیه اتحادیه اروپا در این آدرس موجود است:

.https://www.asus.com/support/

عملکرد 5350-5150 مگاهرنز برای WiFi باید برای استفاده در فضای داخل ساختمان برای کشورهای فهرست شده در جدول، محدود شود.

Απλοποιημένη Δήλωση Συμμόρφωσης ΕΕ

Διά του παρόντος η ASUSTek Computer Inc. δηλώνει ότι αυτή η συσκευή είναι σύμμορφη με τη βασικές προϋποθέσεις και άλλες σχετικές διατάξεις της Οδηγίας 2014/53/EE. Το πλήρες κείμενο της δήλωσης συμμόρωσης της ΕΕ είναι διαθέσιμο στη διεύθυνση https://www.asus.com/support/

Το WiFi που λειτουργεί στη ζώνη 5150-5350MHz περιορίζεται για χρήση σε εσωτερικούς χώρους για τις χώρες που αναφέρονται στον παρακάτω πίνακα:

הצהרת תאימות רגולטורית מקוצרת עבור האיחוד אירופי

מSUSTek Computer Inc. מצהירה בזאת כי מכשיר זה תואם לדרישות החיוניות ולשאר הטעיפים הרלוונטיים של תקנה 2014/53/EU. ניתן לקרוא את הנוסח המלא של הצהרת התאימות הרגולטורית עבור האיחוד האירופי בכתובת: https://www.asus.com/supon/Y

יש להגביל רשתות Wi-Fi הפועלות ברצועת התדרים 5150-5350MHz לשימוש בתור מבנים סגורים בארצות המפורטות ברשימה הבאה:

Egyszerűsített EU megfelelőségi nyilatkozat

Az ASUSTek Computer Inc. ezennel kijelenti, hogy ez az eszköz megfelel az 2014/53/EU sz. irányelv alapvető követelményeinek és egyéb vonatkozó rendelkezéseinek. Az EU megfelelőségi nyilatkozat teljes szövegét a következő weboldalon tekintheti meg: https://www.asus.com/support/

Az 5150-5350 MHz-es sávban működő Wi-Fi-t beltéri használatra kell korlátozni az alábbi táblázatban felsorolt országokban:

Pernyataan Kesesuaian UE yang Disederhanakan

ASUSTeK Computer Inc. dengan ini menyatakan bahwa perangkat ini memenuhi persyaratan utama dan ketentuan relevan lainnya yang terdapat pada Petunjuk 2014/53/EU. Teks lengkap pernyataan kesesuaian EU tersedia di: https://www.asus.com/support/

WiFi yang Beroperasi pada 5150-5350 MHz akan terbatas untuk penggunaan dalam ruangan di negara yang tercantum dalam tabel

Vienkāršota ES atbilstības paziņojums

ASUSTeK Computer Inc. ar šo paziņo, ka šī ierīce atbilst Direktīvas 2014/37/ES būtiskajām prasibām un citiem citiem cisiem saistošajiem nosacījumiem. Pilns ES atbilstības paziņojuma teksts pieejams šeit: https://www.asus.com/support/

Wi-Fi darbība 5150–5350 MHz ir jāierobežo lietošanai telpās valstīs, kuras norādītas tālāk.

Supaprastinta ES atitikties deklaracija

Šiame dokumente bendrovė "ASUSTek Computer Inc." pareiškia, kad šis prietaisas attitinka pagrindinius reikalavimus ir kitas susijusias Direktyvos 2014/53/ES nuostatas. Visas ES attitikties deklaracijos tekstas pateikiamas čia: https://www.asus.com/supoort/

Toliau nurodytose šalyse "WiFi" ryšiu, veikiančiu 5 150–5 350 MHz dažnio iuostoje, galima naudotis tik patalpose:

Ovaj uređaj može da se koristi u državama navedenim ispod:

Forenklet EU-samsvarserklæring

ASUSTek Computer Inc. erklærer herved at denne enheten er i samsvar med hovedsaklige krav og andre relevante forskrifter i direktivet 2014/53/EU. Fullstendig tekst for EU-samsvarserklæringen finnes på: https://www.asus.com/support/

Wi-Fi-området 5150–5350 MHz skal begrenses til innendørs bruk for landene som er oppført i tabellen:

Uproszczona deklaracja zgodności UE

Firma ASUSTek Computer Inc. niniejszym oświadcza, że urządzenie to jest zgodne z zasadniczymi wymogami i nnymi właściwymi postanowieniami dyrektywy 2014/53/EU. Pełny tekst deklaracji zgodności UE jest dostępny pod adresem https://www.asus.com/support/

W krajach wymienionych w tabeli działanie sieci Wi-Fi w paśmie 5150–5350 MHz powinno być ograniczone wyłącznie do pomieszczeń:

Declaração de Conformidade Simplificada da UE

A ASUSTek Computer Inc. declara que este dispositivo está em conformidade com os requisitos essenciais e outras disposições relevantes da Diretiva 2014/53/UE. O texto integral da declaração de conformidade da UE está disponível em https://www.asus.com/support/

A utilização das frequências WiFi de 5150 a 5350MHz está restrita a ambientes interiores nos países apresentados na tabela:

Declarație de conformitate UE, versiune simplificată

Prin prezenta, ASUSTek Computer Inc. declară că acest dispozitiv este în conformitate cu reglementările esențiale și cu celelalte prevederi relevante ale Directivei 2014/53/UE. Textul complet al declarației de conformitate UE este disponibil la adresa https://www.asus.com/support/

Pentru țările listate în tabelul de mai jos, rețelele WiFi care funcționează în banda de frecvență de 5.150-5.350 MHz trebuie utilizate doar în interior:

Pojednostavljena Deklaracija o usaglašenosti EU

ASUSTek Computer Inc. ovim izjavljuje da je ovaj uređaj usaglašen sa osnovnim zahtevima i drugim relevantnim odredbama Direktive 2014/53/EU. Čeo tekst Deklaracije o usaglašenosti EU dostupan je na lokaciji https://www.asus.com/support/.

WiFi koji radi u frekventnom opsegu od 5150 MHz do 5350 MHz ograničen je isključivo na upotrebu u zatvorenom prostoru za zemlje navedene u tabeli i spod:

Zjednodušené vyhlásenie o zhode platné pre EÚ

Spoločnosť ASUSTek Computer Inc. týmto vyhlasuje, že toto zariadenie je v súlade so základnými požiadavkami a ďalšími príslušnými ustanoveniami smernice č. 2014/53/EÚ. Plné znenie vyhlásenia o zhode pre EÚ je k dispozícii na lokalite <u>https://www.asus.com/support/</u>

Činnosť WiFi v pásme 5150 - 5350 MHz bude obmedzená na použitie vo vnútornom prostredí pre krajiny uvedené v tabuľke nižšie:

Poenostavljena izjava EU o skladnosti

ASUSTek Computer Inc. tukaj izjavlja, da je ta naprava skladna s temeljnimi zahtevami in drugimi relevantnimi določili Direktive 2014/53/EU. Polno besedilo izjave EU o skladnosti je na voljo na <u>https://www.asus.com/support/</u> WiFI, ki deluje v pasovnem območju 5150-5330 MHz, mora biti v državah, navdenih v spodnjem sezamav, omejen na notrajnio uporabo:

Declaración de conformidad simplificada para la UE

Por la presente, ASUSTek Computer Inc. declara que este dispositivo cumple los requisitos básicos y otras disposiciones pertinentes de la directiva 2014/53/EU. En https://www.asus.com/support/ está disponible el texto completo de la declaración de conformidad para la UE.

La conexión WiFi con una frecuencia de funcionamiento de 5150-5350 MHz se restringirá al uso en interiores para los países enumerados en la tabla:

Förenklad EU-försäkran om överensstämmelse

ASUSTek Computer Inc. deklarerar härmed att denna enhet överensstämmer med de grundläggande kraven och andra relevanta bestämmelser i direktiv 2014/53/EU. Fullständig text av EU-försäkran om överensstämmelse finns på https://www.asus.com/support/

WiFi som använder 5150-5350 MHz kommer att begränsas för användning inomhus i de länder som anges i tabellen:

ประกาศเกี่ยวกับความสอดคล้องของสหภาพยโรปแบบย่อ

ASUSTek Computer Inc.

ขอประกาศในที่นีว่าอุปกรณ์นี้มีความสอดคล็องกับความ ต้องการที่จำเป็นและเจือนใชที่เกี่ยวข้องอื่น ๆ ของบทบัญญัติข้อกำหนด 2014/53/EU เนื่อหาที่สมบูรณ์ของประกาศความสอดคล็องกับ EU มีอยู่ที่ https://www.asus.com/support/

การทำงานของ WiFi ที่ 5150-5350MHz

กกล่ากัดให้ใช้ในอาดารสำหรับประเทศที่แสดงในตาราง

Basitleştirilmiş AB Uyumluluk Bildirimi

ASUSTek Computer Inc., bu aygıtın 2014/53/EU Yönergesinin temel gereksinimlerine ve diğer ilgili hükümlerine uygun olduğunu bildirir. AB uygunluk bildirimlinin tam metni şu adreste bulunabilir: https://www.asus.com/support/

5150-5350 MHz arasındaki WiFi çalışması, tabloda listelenen ülkeler için iç mekân kullanımıyla kısıtlanacaktır.

Спрощена декларація про відповідність нормам ЄС

ASUSTek Computer Inc. заявляє, що цей пристрій відповідає основним вимогам та іншим відповідним вимогам Директиви 2014 / 53 / EU. Повний текст декларації відповідності нормам ЄС доступний на https://www.asus.com/support/

Робота Wi-Fi на частоті 5150-5350 МГц обмежується використанням у примішенні для країн, поданих у таблиці нижче:



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

WCBN808L-AD (Model: RTL8822BE) output power table:

Function	Frequency	Maximum Output Power (EIRP)
WiFi	2412-2472 MHz	19 dBm
	5150-5350 MHz	19 dBm
	5470-5725 MHz	20 dBm
Bluetooth	2402-2480 MHz	8 dBm

ASUS contact information

ASUSTEK COMPUTER INC.

Address 4F, No. 150, Li-Te Road, Peitou, Taipei 112, Taiwan

Telephone +886-2-2894-3447 Fax +886-2-2890-7798 Web site www.asus.com

Technical Support

Telephone +86-21-38429911

Fax +86-21-5866-8722, ext. 9101#
Online support http://gr.asus.com/techsery

ASUS COMPUTER INTERNATIONAL (America)

Address 800 Corporate Way, Fremont, CA 94539, USA

Telephone +1-510-739-3777
Fax +1-510-608-4555
Web site http://www.asus.com/us/

Technical Support

Support fax +1-812-284-0883 Telephone +1-812-282-2787

Online support http://qr.asus.com/techserv

ASUS COMPUTER GmbH (Germany and Austria)

Address Harkort Str. 21-23, 40880 Ratingen, Germany

Fax +49-2102-959931
Web site http://www.asus.com/de
Online contact http://eu-rma.asus.com/sales

Technical Support

 Telephone
 +49-2102-5789555

 Support Fax
 +49-2102-959911

 Online support
 http://qr.asus.com/techserv

A-8 Appendix

DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2. 1077(a)



Responsible Party Name: Asus Computer International

Address: 800 Corporate Way, Fremont, CA 94539.

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

hereby declares that the product

Product Name: Motherboard

Model Number: ROG STRIX Z370-G GAMING (WI-FI AC)

Conforms to the following specifications:

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 : Steve Chang / President

Signature:

Date: Sep. 20, 2017

Steve Chang

Ver. 170324

A-10 Appendix