



Motherboard

PRIME A320I-K

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Safety information

Electrical safety

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

Operation safety

- Before installing the motherboard and adding components, 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 be exposed to moisture.
- 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:

- **Chapter 1: Product introduction**
This chapter describes the features of the motherboard and the new technology it supports. It includes descriptions of the switches, jumpers, and connectors on the motherboard.
- **Chapter 2: BIOS information**
This chapter discusses changing system settings through the BIOS Setup menus.

Where to find more information

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

1. ASUS websites

The ASUS website provides updated information on ASUS hardware and software products. Refer to the ASUS contact information.

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 completing a task.



CAUTION: Information to prevent damage to the components when completing 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 (+).

Package contents

Check your motherboard package for the following items.

Motherboard	ASUS PRIME A320I-K motherboard
Cables	2 x Serial ATA 6.0 Gb/s cables 1 x I/O shield
Accessories	1 x M.2 screw package 1 x Bracket for M.2 2242
Application DVD	1 x Support DVD
Documentation	1 x User Manual



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

PRIME A320I-K specifications summary

CPU	AMD AM4 Socket AMD Ryzen™ 2 nd Generation/Ryzen™ with Radeon™ Vega Graphics/Athlon™ with Radeon™ Vega Graphics/Ryzen™ 1 st Generation/7 th Generation A-series/Athlon X4 Processors* ** Refer to www.asus.com for AMD CPU support list.
Chipset	AMD Promontory A320 chipset
Memory	AMD Ryzen™ 2nd Generation processors: 2 x DIMM, Max. 32GB, DDR4 3600(O.C.)/3466(O.C.)/3400(O.C.)/3200(O.C.)/3000(O.C.)/2933(O.C.)/2800(O.C.)/2666/2400/2133 MHz Non-ECC, Un-buffered Memory* Ryzen™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation Processors: 2 x DIMM, Max. 32GB, DDR4 3400(O.C.)/3200(O.C.)/3000(O.C.)/2933(O.C.)/2800(O.C.)/2666/2400/2133 MHz Non-ECC, Un-buffered Memory* AMD 7th Generation A-series / Athlon™ processors: 2 x DIMM, Max. 32GB, DDR4 2400/2133 MHz Non-ECC, Un-buffered Memory* Dual Channel Memory Architecture * Refer to www.asus.com for the latest Memory QVL (Qualified Vendors List).
Graphics	Integrated Graphics in the AMD Ryzen™ with Radeon™ Vega Graphics/ Athlon™ with Radeon™ Vega Graphics/ 7 th Generation A-Series APU Multi-VGA output support: HDMI/DisplayPort ports - Supports HDMI 1.4 with max. resolution up to 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz - Supports DisplayPort 1.2 with max. resolution up to 4096x2160 @ 60Hz - Maximum shared memory of 2048 MB (for iGPU exclusively)
Expansion slots	AMD Ryzen™ 2nd Generation/ Ryzen™ 1st Generation Processors: 1 x PCIe 3.0/2.0 x16 (x16 mode) AMD Ryzen™ with Radeon™ Vega Graphics /7th Generation A-Series/Athlon X4 Processors: 1 x PCIe 3.0/2.0 x16 (x8 mode) AMD Athlon™ with Radeon™ Vega Graphics Processors: 1 x PCIe 3.0/2.0 x16 (max at x4 mode)
LAN	Realtek® 8111H Gigabit LAN controller ASUS LANGuard

(continued on the next page)

PRIME A320I-K specifications summary

Audio	<p>Realtek® ALC 887 8-channel* high definition audio CODEC</p> <ul style="list-style-type: none">- Audio Shielding: Ensures precision analog/digital separation and greatly reduces multi-lateral interference- Dedicated audio PCB layers: Separate layers for left and right channels to guard the quality of the sensitive audio signals- Premium Japanese audio capacitors: Provide warm, natural and immersive sound with exceptional clarity and fidelity- Supports jack-detection and front panel jack-retasking <p>* Use a chassis with HD audio module in the front panel to support an 8-channel audio output.</p>
Storage	<p>AMD Ryzen™ 2nd Generation/ Ryzen™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation Processors:</p> <ul style="list-style-type: none">- 1 x M.2 Socket 3, with M key, type 2242/2260/2280 storage devices support (SATA & PCIE 3.0 x 4 mode) <p>AMD 7th Generation A-Series/ Athlon™ X4 Processors:</p> <ul style="list-style-type: none">- 1 x M.2 Socket 3, with M key, type 2242/2260/2280 storage devices support (SATA mode) <p>AMD Athlon™ with Radeon™ Vega Graphics Processors:</p> <ul style="list-style-type: none">- 1 x M.2 Socket 3, with M key, type 2242/2260/2280 storage devices support (SATA mode) <p>AMD A320 chipset:</p> <ul style="list-style-type: none">- 4 x SATA 6Gb/s port(s) support RAID 0, 1, 10
USB	<p>AMD Ryzen™ 2nd Generation/ Ryzen™ with Radeon™ Vega Graphics/ Athlon™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation/ 7th Generation A-Series/ Athlon™ X4 Processors:</p> <ul style="list-style-type: none">- 4 x USB 3.1 Gen 1 port(s) (4 at back panel, blue) <p>AMD A320 Chipset:</p> <ul style="list-style-type: none">- 2 x USB 3.1 Gen 1 ports (2 ports @mid-board)- 4 x USB 2.0 ports (2 ports @mid-board; 2 ports @back panel)
ASUS unique features	<p>ASUS 5X PROTECTION III</p> <ul style="list-style-type: none">- ASUS SafeSlot Core: Fortified PCIe with solid soldering- ASUS ESD Guard: Enhanced ESD protection- ASUS Overvoltage Protection: World-class circuit-protecting power design- ASUS Stainless-Steel Back I/O: 3X corrosion-resistance for greater durability!- ASUS DIGI+ VRM power design <p>AURA</p> <ul style="list-style-type: none">- Aura RGB Headers <p>ASUS EPU</p> <ul style="list-style-type: none">- EPU <p>ASUS Quiet Thermal Solution</p> <ul style="list-style-type: none">- Stylish Fanless Design Heat-sink solution- ASUS Fan Xpert 2+ <p>ASUS Exclusive Features</p> <ul style="list-style-type: none">- ASUS Ai Charger- ASUS AI Suite 3

(continued on the next page)

PRIME A320I-K specifications summary

ASUS unique features	ASUS EZ DIY <ul style="list-style-type: none">- ASUS UEFI BIOS EZ Mode- ASUS CrashFree BIOS 3- ASUS EZ Flash 3 ASUS Q-Design <ul style="list-style-type: none">- ASUS Q-DIMM- ASUS Q-Slot- ASUS Q-LED
Rear panel I/O ports	1 x PS/2 mouse/keyboard combo port 1 x HDMI port 1 x DisplayPort port 1 x LAN (RJ-45) port 2 x USB 2.0 ports 4 x USB 3.1 Gen 1 ports 3 x Audio jacks support 8-channel audio output
Internal connectors	1 x USB 3.1 Gen 1 connector supports additional 2 USB 3.1 Gen 1 ports 1 x USB 2.0 connectors support additional 2 USB 2.0 ports 1 x M.2 Socket 3 (for M Key, type 2242/2260/2280 devices) 4 x SATA 6.0Gb/s connectors 2 x RGB Header(s) 1 x CPU Fan connector (support DC/PWM mode) 1 x CPU OPT Fan connector (1 x 4 -pin) 2 x Chassis Fan connectors (4-pin) for both 3-pin(DC mode) and 4-pin(PWM mode) coolers control 1 x Front panel audio connector (AAFP) 1 x 24-pin EATX Power connector 1 x 8-pin EATX 12V Power connector 1 x System Panel Connector 1 x TPM header (14-1pin) 1 x Clear CMOS jumper
BIOS features	128 Mb Flash ROM, UEFI AMI BIOS, PnP, SM BIOS 3.1, ACPI 6.1, Multi-language BIOS, ASUS EZ Flash 3, CrashFree BIOS 3, F11 EZ Tuning Wizard, F6 Qfan Control, F3 My Favorites, Last Modified log, F9 Search, F12 PrintScreen, and ASUS DRAM SPD (Serial Presence Detect) memory information
Manageability	WfM 2.0, DMI 3.0, WOL by PME, PXE
Support DVD	Drivers ASUS Utilities ASUS Update Anti-virus software (OEM version)
OS support	Windows® 10 (64-bit)
Form factor	Mini ITX form factor: 6.7 inch x 6.7 inch (17cm x 17cm)



Specifications are subject to change without notice.

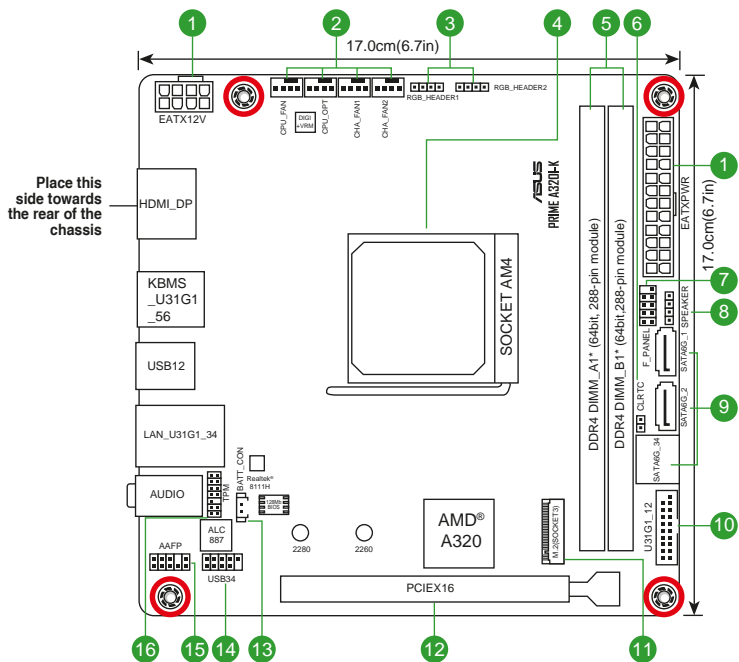
Product introduction

1

Motherboard overview



- 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.
- 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.
- Unplug the power cord before installing or removing the motherboard. Failure to do so can cause you physical injury and damage to motherboard components.



Scan the QR code to get the detailed pin definitions.



1

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.



- 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 300 W. This PSU type has 24-pin and 4-pin power plugs.
- DO NOT forget to connect the 8-pin EATX +12V power plug. Otherwise, the system will not boot up.
- We recommend that you use a PSU with higher power output when configuring a system with more power-consuming devices or when you intend to install additional devices. The system may become unstable or may not boot up if the power is inadequate.

2

CPU and chassis fan connectors (4-pin CPU_FAN, CPU_OPT, 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.

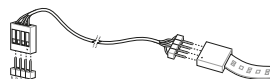


Do not forget to connect the fan cables to the fan connectors. Insufficient air flow inside the system may damage the motherboard components. These are not jumpers! Do not place jumper caps on the fan connectors! The CPU_FAN connector supports a CPU fan of maximum 1A (12 W) fan power.

3

RGB header (4-pin RGB_HEADER)

This header is for RGB LED strips.



The RGB header supports 5050 RGB multi-color LED strips (12V/G/R/B), with a maximum power rating of 3A (12V), and no longer than 3 m.



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.



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

4

AMD AM4 CPU socket

This motherboard comes with an AMD AM4 socket designed for Ryzen™ 2nd Generation/Ryzen™ with Radeon™ Vega Graphics/Athlon™ with Radeon™ Vega Graphics/Ryzen™ 1st Generation/7th Generation A-series/Athlon X4 Processors.



For more details, refer to **Central Processing Unit (CPU)**.

5

DDR4 DIMM slots

Install 2 GB, 4 GB, 8 GB, and 16 GB unbuffered non-ECC DDR4 DIMMs into these DIMM sockets.

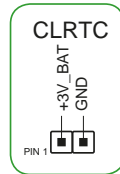


For more details, refer to **System memory**.

6

Clear RTC RAM (2-pin CLRRTC)

This header allows you to clear the CMOS RTC RAM data of the system setup information such as date, time, and system passwords.



To erase the RTC RAM:

1. Turn OFF the computer and unplug the power cord.
2. Use a metal object such as a screwdriver to short the two pins.
3. Plug the power cord and turn ON the computer.
4. Hold down the key during the boot process and enter BIOS setup to re-enter data.



If the steps above do not help, remove the onboard battery and short the two pins again to clear the CMOS RTC RAM data. After clearing the CMOS, reinstall the battery.

7

System panel connector (10-1 pin F_PANEL)

This connector supports several chassis-mounted functions.

8

Speaker connector (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.

9

AMD A320 Serial ATA 6.0Gb/s connectors (7-pin SATA6G_1~4)

These connectors connect to Serial ATA 6.0 Gb/s hard disk drives via Serial ATA 6.0 Gb/s signal cables.

10

USB 3.1 Gen 1 connector (20-1 pin USB3_12)

This connector allows you to connect a USB 3.1 Gen 1 module for additional USB 3.1 Gen 1 front or rear panel ports. With an installed USB 3.1 Gen 1 module, you can enjoy all the benefits of USB 3.1 Gen 1 including faster data transfer speeds of up to 5Gbps, faster charging time for USB-chargeable devices, optimized power efficiency and backward compatibility with USB 2.0.

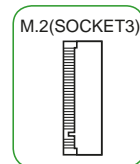
11

M.2 socket 3

This socket allows you to install M.2 (NGFF) SSD modules.



- This M.2 socket supports M Key and 2242/2260/2280 storage devices.
- Due to CPU limitation, M.2 socket supported varies by processor. Refer to the specifications summary table for more details.



12**PCI Express 3.0 / 2.0 x16 slot**

This motherboard supports one PCI Express 3.0 / 2.0 x16 graphic card that complies with the PCI Express specifications.

13**RTC Battery header (2-pin BATT_CON)**

This connector is for the lithium CMOS battery.

14**USB 2.0 connectors (10-1 pin USB34, USB56)**

These connectors are for USB 2.0 ports. Connect the USB module cable to any of these connectors, then install the module to a slot opening at the back of the system chassis. These USB connectors comply with USB 2.0 specifications and support up to 480Mbps connection speed.



Never connect a 1394 cable to the USB connectors. Doing so will damage the motherboard!

15**Front panel audio connector (10-1 pin AAFP)**

This connector is for a chassis-mounted front panel audio I/O module that supports either HD Audio or legacy AC'97 audio standard. Connect one end of the front panel audio I/O module cable to this connector.

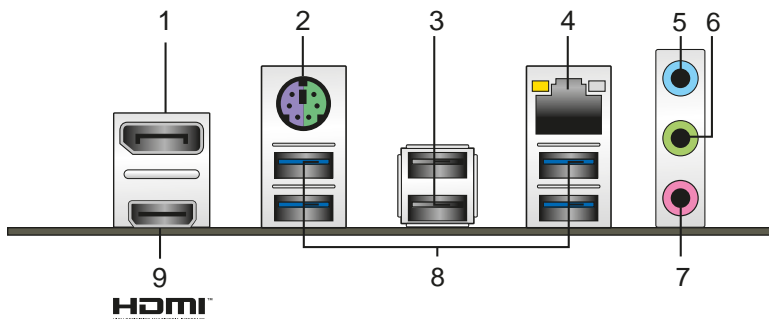


- We recommend that you connect a high-definition front panel audio module to this connector to avail of the motherboard's high-definition audio capability.
 - If you want to connect a high-definition front panel audio module to this connector, set the **Front Panel Type** item in the BIOS setup to [HD Audio]. If you want to connect an AC'97 front panel audio module to this connector, set the item to [AC97]. By default, this connector is set to [HD Audio].
-

16**TPM connector (14-1 pin TPM)**

This connector supports a Trusted Platform Module (TPM) system, which can securely store keys, digital certificates, passwords and data. A TPM system also helps enhance network security, protects digital identities, and ensures platform integrity.

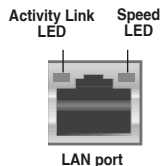
1.2.2 Rear panel connectors



1. **DisplayPort.** This port is for DisplayPort-compatible devices.
2. **PS/2 Mouse/Keyboard combo port.** This port connects to a PS/2 mouse or PS/2 keyboard.
3. **USB 2.0 ports.** These 4-pin Universal Serial Bus (USB) ports are for USB 2.0/1.1 devices.
4. **LAN (RJ-45) port.** This port allows Gigabit connection to a Local Area Network (LAN) through a network hub.

LAN port LED indications

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



5. **Line In port (light blue).** This port connects to the tape, CD, DVD player, or other audio sources.
6. **Line Out port (lime).** This port connects to a headphone or a speaker. In the 4.1, 5.1 and 7.1-channel configurations, the function of this port becomes Front Speaker Out.
7. **Microphone port (pink).** This port connects to a microphone.



Refer to the audio configuration table for the function of the audio ports in 2.1, 4.1, 5.1, or 7.1-channel configuration.

Audio 2.1, 4.1, 5.1 or 7.1-channel configuration

Port	Headset 2.1-channel	4.1-channel	5.1-channel	7.1-channel
Light Blue (Rear panel)	Line In	Rear Speaker Out	Rear Speaker Out	Rear Speaker Out
Lime (Rear panel)	Line Out	Front Speaker Out	Front Speaker Out	Front Speaker Out
Pink (Rear panel)	Mic In	Mic In	Bass/Center	Bass/Center
Lime (Front panel)	-	-	-	Side Speaker Out

8. **USB 3.1 Gen 1 ports.** These two 9-pin Universal Serial Bus (USB) ports connect to USB 3.1 Gen 1 devices.

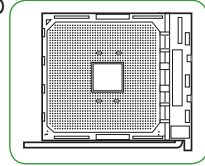


- USB 3.1 Gen 1 devices can only be used for data storage.
- Due to the design of AMD AM4 series chipset, all USB devices connected to the USB 2.0 and USB 3.1 Gen 1 ports are controlled by the xHCI controller.
- We strongly recommend that you connect USB 3.1 Gen 1 devices to USB 3.1 Gen 1 ports for faster and better performance from your USB 3.1 Gen 1 devices.

9. **HDMI port.** This port is for a High-Definition Multimedia Interface (HDMI) connector, and is HDCP compliant allowing playback of HD DVD, Blu-ray, and other protected content.

Central Processing Unit (CPU)

The motherboard comes with an AMD AM4 socket designed for AMD Ryzen™ 2nd Generation/Ryzen™ with Radeon™ Vega Graphics/Athlon™ with Radeon™ Vega Graphics/Ryzen™ 1st Generation/7th Generation A-series/Athlon X4 Processors.



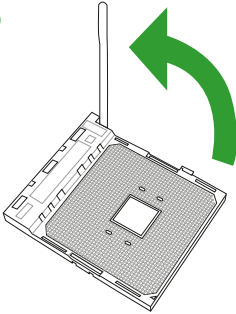
Unplug all power cables before installing the CPU.



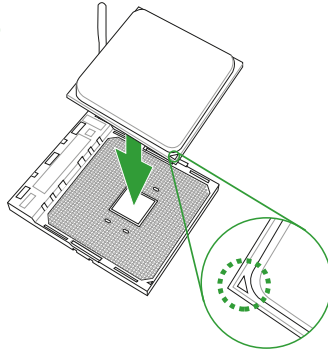
The AM4 socket has a different pinout from the FM2+/FM2 socket. Ensure that you use a CPU designed for the AM4 socket. The CPU fits in only one correct orientation. **DO NOT** force the CPU into the socket to prevent bending the pins and damaging the CPU!

Installing the CPU

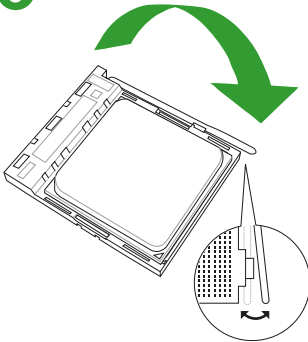
1



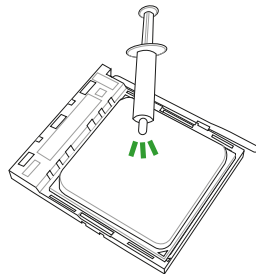
2



3



4



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

System memory

Overview

This motherboard comes with two Double Data Rate 4 (DDR4) Dual Inline Memory Module (DIMM) sockets. The figure illustrates the location of the DDR4 DIMM sockets:



Channel	Sockets
Channel A	DIMM_A1 & DIMM_A2
Channel B	DIMM_B1 & DIMM_B2

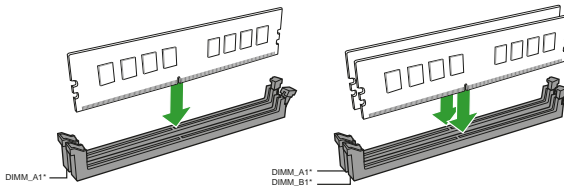


- You may install varying memory sizes in Channel A and Channel B. The system maps the total size of the lower-sized channel for the dual-channel configuration. Any excess memory from the higher-sized channel is then mapped for single-channel operation.
- Always install DIMMs with the same CAS latency. For optimal compatibility, we recommend that you install memory modules of the same version or date code (D/C) from the same vendor. Check with the retailer to get the correct memory modules.



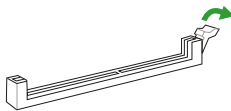
- For system stability, use a more efficient memory cooling system to support a full memory load (4 DIMMs).
- Refer to www.asus.com for the latest Memory QVL (Qualified Vendors List)

Recommended memory configuration

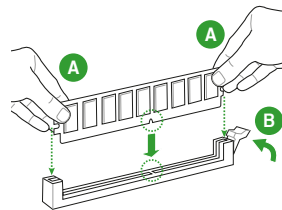


Installing a DIMM

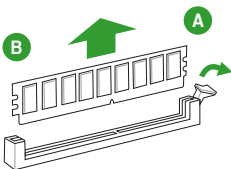
1



2



To remove a DIMM



BIOS information

2



- Scan the QR code to view the BIOS update guide.
- Before using the ASUS CrashFree BIOS 3 utility, rename the BIOS file in the removable device into **PRA320IK.CAP**.



BIOS setup program

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

Entering BIOS Setup 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>+ 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.



Using the power button, reset button, or the <Ctrl>+<Alt>+ keys to force reset from a running operating system can cause damage to your data or system. We recommend you always shut down the system properly from the operating system.



- The BIOS setup screens shown in this section are for reference purposes only, and may not exactly match what you see on your screen.
- Visit the ASUS website at www.asus.com to download the latest BIOS file for this motherboard.
- If the system becomes unstable after changing any BIOS setting, load the default settings to ensure system compatibility and stability. Select the **Load Optimized Defaults** item under the Exit menu or press hotkey F5.
- If the system fails to boot after changing any BIOS setting, try to clear the CMOS and reset the motherboard to the default value. See section **Motherboard overview** for information on how to erase the RTC RAM.

BIOS menu screen

The BIOS setup program can be used under two modes: **EZ Mode** and **Advanced Mode**. Press <F7> to change between the two modes.

EZ 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, fan profile and boot device priority. To access the Advanced Mode, click **Advanced Mode(F7)** or press <F7>.



The default screen for entering the BIOS setup program can be changed.

Displays the CPU/motherboard temperature, CPU voltage output, CPU/chassis fan speed, and SATA information

Selects the display language of the BIOS setup program

Searches by BIOS item name, enter the item name to find the related item listing

Displays the system properties of the selected mode. Click <Enter> to switch EZ Mode Tuning modes

Turns the RGB LED lighting on or off

Displays the CPU Fan's speed
Click the button to manually tune the fans
Loads optimized default settings

Saves the changes and resets the system

Shows the bootable devices

Displays the Advanced mode menus

Search on FAQ
Selects the boot device priority



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

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 access the EZ Mode, click **EzMode(F7)** or press <F7>.

The screenshot shows the ASUS UEFI BIOS Utility in Advanced Mode. The interface includes a menu bar at the top with options like My Favorites, Main, AI Tweaker, Advanced, Monitor, Boot, Tool, and Exit. A search bar is located in the top right corner. The main area displays CPU configuration details, including CPU Configuration, Cache per core, and L1/L2 caches. A hardware monitor panel on the right shows real-time data for CPU (frequency, temperature, voltage), Memory (frequency, voltage), and Voltage (Vcore, Vcc, Vcc2). A scroll bar is visible on the right side of the main configuration area. A popup window for 'PSI Support' is open, showing 'Enabled' and 'All Mode' options. A 'General help' icon is present in the bottom left. The bottom of the screen shows 'Last Modified', 'EzMode(F7)', 'Hot Keys', and 'Search on FAQ'.

Labels in the image:

- MyFavorite
- Q-Fan control
- Search(F9)
- AURA ON/OFF(F4)
- Language
- Menu bar
- Hardware Monitor
- My Favorites
- Main
- AI Tweaker
- Advanced
- Monitor
- Boot
- Tool
- Exit
- Advanced CPU Configuration
- CPU Configuration
- AMD Ryzen 5 3400G with Radeon Vega Graphics
- 4 Cores Running @ 3623 MHz / 1450 mV
- Max Speed 3600 MHz
- Microcode Patch Level: 810100B
- Cache per core
- L1 Instruction Cache: 64 KB/4-way
- L1 Data Cache: 32 KB/4-way
- L2 Cache: 512 KB/4-way
- Total L2 Cache per Socket: 4 MB/16-way
- PSI Support: Enabled
- All Mode: Disabled
- DRAM Mode: Enabled
- SMT Mode: Disabled
- Alam: Alarm
- Hardware Monitor
- CPU
- Frequency: 3600 MHz
- Temperature: 48°C
- All Mode: Alarm
- Max Voltage: 1.362 V
- Memory
- Frequency: 2400 MHz
- Voltage: 1.200 V
- Capacity: 8192 MB
- Voltage
- Vcore: +1.20
- Vcc: +12.564 V
- Vcc2: +1.32
- Vcc3: +3.335 V
- General help
- Popup window
- Last modified settings
- Scroll bar
- Search on FAQ
- Menu items
- Configuration fields
- Goes back to EZ Mode
- Hot keys
- Displays the CPU temperature, CPU and memory voltage output

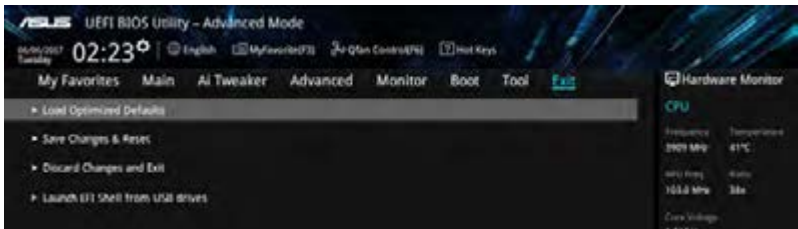
Search on FAQ

Move your mouse over this button to show a QR code. Scan this QR code with your mobile device to connect to the ASUS BIOS FAQ web page. You can also scan the QR code below.



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.



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 OK to discard changes and exit.

Launch EFI Shell from USB drives

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

Appendix

Notices

FCC Compliance Information

Responsible Party: Asus Computer International

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

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

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

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

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

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

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

VCCI: Japan Compliance Statement

Class B ITE

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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

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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

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