



PRIME B250M-PLUS

ASUS[®]

Motherboard



E12098
First Edition
October 2016

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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 B250M-PLUS motherboard
Cables	2 x Serial ATA 6.0 Gb/s cables
Accessories	1 x I/O Shield, 2 x M.2 screws
Application DVD	Support DVD
Documentation	User Guide



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

PRIME B250M-PLUS specifications summary

CPU	LGA1151 socket for Intel® 7th/6th Generation Core™ i7 / i5 / i3, Pentium®, and Celeron® processors Supports Intel® 14nm CPU Supports Intel® Turbo Boost Technology 2.0* * The Intel® Turbo Boost Technology 2.0 support depends on the CPU types. ** Refer to www.asus.com for Intel® CPU support list.
Chipset	Intel® B250 Chipset
Memory	4 x DIMMs, maximum 64GB, DDR4 2400*/2133**MHz, non-ECC, un-buffered memory*** Dual-channel memory architecture Supports Intel® Extreme Memory Profile (XMP) * Due to Intel® chipset limitation, DDR4 2400MHz memory frequency is only supported by 7th Generation Intel® processors. Higher memory modules will run at the maximum transfer rate of DDR4 2400MHz. ** Due to Intel® chipset limitation, DDR4 2133MHz and higher memory modules on 6th Generation Intel® processors will run at the maximum transfer rate of DDR4 2133MHz. *** Refer to www.asus.com for the Memory QVL(Qualified Vendors List)
Expansion slots	1 x PCI Express 3.0/2.0 x16 slot (gray, at x16 mode) 1 x PCI Express 3.0/2.0 x16 slot (black, at x4 mode) 1 x PCI Express 3.0/2.0 x1 slot
Multi-GPU Support	Supports AMD® CrossFireX™ Technology
Graphics	Integrated graphics processor - Intel® HD Graphics support Multi-VGA output support: HDMI/DVI-D/D-Sub ports - Supports HDMI 1.4b with maximum resolution of 4096 x 2160 @ 24Hz / 2560 x 1600 @ 60Hz - Supports DVI-D with maximum resolution of 1920 x 1200 @ 60Hz - Supports D-Sub with maximum resolution of 1920 x 1200 @ 60Hz Support Intel® InTru™ 3D/Quick Sync Video/Clear Video HD Technology/ Insider™ Support up to three displays simultaneously Maximum shared memory of 1024 MB (for iGPU exclusively)

(continued on the next page)

PRIME B250M-PLUS specifications summary

Storage	<p>Intel® B250 Chipset with Intel® Rapid Storage Technology 15 support:</p> <ul style="list-style-type: none"> - 1 x M.2_1 Socket 3 with M Key, type 2242/2260/2280 storage devices support (both SATA and PCIe x2 mode)* - 1 x M.2_2 Socket 3 with M Key, type 2242/2260/2280 storage devices support (IRST support, PCIe x4 mode)** - 6 x SATA 6.0 Gb/s ports (gray) - Intel® Optane™ Memory Ready*** <p>* When a device in SATA mode is installed on the M.2_1 socket, SATA_1 port cannot be used.</p> <p>** Only M.2_2 socket can support Intel® Optane™ Memory.</p> <p>*** Intel® Optane™ Technology is only supported when using 7th 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.</p>
LAN	<p>Intel® I219-V Gigabit LAN</p> <ul style="list-style-type: none"> - Dual interconnection between the integrated Media Access Controller (MAC) and physical layer (PHY)
Audio	<p>Realtek® ALC887 8-channel High Definition Audio CODEC</p> <ul style="list-style-type: none"> - LED-illuminated design: Brighten up your build with the gorgeous illuminated audio trace path - Audio Shielding: Ensures precision analog/digital separation and greatly reduced 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
USB	<p>Intel® B250 Chipset</p> <ul style="list-style-type: none"> - 1 x 5Gb/s USB Type C port (at back panel) support 3A power output - 5 x USB 3.0/2.0 ports (2 ports at mid-board; 3 ports at back panel, blue, Type A) - 6 x USB 2.0/1.1 ports (4 ports at mid-board; 2 ports at back panel)
ASUS special features	<p>ASUS 5X PROTECTION III</p> <ul style="list-style-type: none"> - ASUS SafeSlot Core: Fortified PCIe Slot prevents damage - ASUS LANGuard: Protects against LAN surges, lightning strikes and static-electricity discharges - ASUS Overvoltage Protection: World-class circuit-protecting power design - ASUS Stainless Steel Back I/O: 3X corrosion-resistance for greater durability - ASUS DIGI+ VRM: 6 Phase digital power design <p>Superb Performance</p> <p>M.2 onboard</p> <ul style="list-style-type: none"> - The latest transfer technologies with up to 32Gb/s data transfer speeds <p>ASUS Fan Xpert 2+</p> <ul style="list-style-type: none"> - Advanced fan controls for ultimate cooling and quietness <p>ASUS EPU</p> <ul style="list-style-type: none"> - EPU <p>UEFI BIOS</p> <ul style="list-style-type: none"> - Most advanced options with fast response time

(continued on the next page)

PRIME B250M-PLUS specifications summary

ASUS special features	<p>Gaming Scenario</p> <p>Audio Features</p> <ul style="list-style-type: none"> - Audio that roars on the battlefield <p>ASUS Exclusive Features</p> <ul style="list-style-type: none"> - ASUS AI Charger - ASUS AI Suite 3 <p>EZ DIY</p> <p>UEFI BIOS EZ Mode</p> <ul style="list-style-type: none"> - Featuring friendly graphics user interface - ASUS CrashFree BIOS 3 - ASUS EZ Flash 3 <p>Q-Design</p> <ul style="list-style-type: none"> - ASUS Q-DIMM - ASUS Q-Slot
ASUS Quiet Thermal Solution	<p>Quiet Thermal Design</p> <ul style="list-style-type: none"> - ASUS Fan Xpert 2+ - Stylish Fanless Design: MOS Heat-sink and PCH Heat-sink solution
Rear panel I/O ports	<ul style="list-style-type: none"> 1 x PS/2 keyboard/mouse combo port 1 x HDMI port 1 x DVI-D port 1 x D-Sub port 1 x LAN (RJ-45) port 1 x USB 5Gb/s Type C port 3 x USB 3.0/2.0 ports (blue, Type A) 2 x USB 2.0/1.1 ports 6-Jack 8-Channel Audio I/O ports
Internal connectors	<ul style="list-style-type: none"> 1 x USB 3.0/2.0 connector supports additional 2 USB ports (19-pin) 2 x USB 2.0/1.1 connectors support additional 4 USB ports 2 x M.2 Socket 3 (for M Key) 6 x SATA 6.0Gb/s connectors (gray) 1 x 4-pin CPU Fan connector for 4-pin (PWM mode) coolers control* 2 x 4-pin Chassis Fan connectors for both 3-pin (DC mode) and 4-pin (PWM mode) coolers control* 1 x Front panel audio connector(AAFP) 1 x System panel connector 1 x S/PDIF out header 1 x 24-pin EATX Power connector 1 x 4-pin ATX 12V Power connector 1 x COM header 1 x Clear CMOS header
BIOS	<p>128Mb Flash ROM, UEFI AMI BIOS, PnP, DMI3.0, WfM2.0, SM BIOS 3.0, ACPI 6.0, Multi-language BIOS, ASUS EZ Flash 3, CrashFree BIOS 3, F6 Qfan Control, F3 My Favorites, Last Modified log, F12 PrintScreen, and ASUS DRAM SPD (Serial Presence Detect) memory information</p>

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PRIME B250M-PLUS specifications summary

Manageability	WfM 2.0, DMI 3.0, WOL by PME, PXE
Support DVD	Drivers ASUS Utilities ASUS EZ Update Anti-virus software (OEM version)
OS Support	Windows® 10 (64-bit only) Windows® 8.1 (64-bit only)* Windows® 7 (64-bit/32-bit)* * Windows® 8.1 64-bit and Windows® 7 32-bit/64-bit are only supported when using 6th Generation Intel® processors.
Form Factor	uATX form factor: 9.6 in x 8.8 in (24.4 cm x 22.4 cm)



Specifications are subject to change without notice.



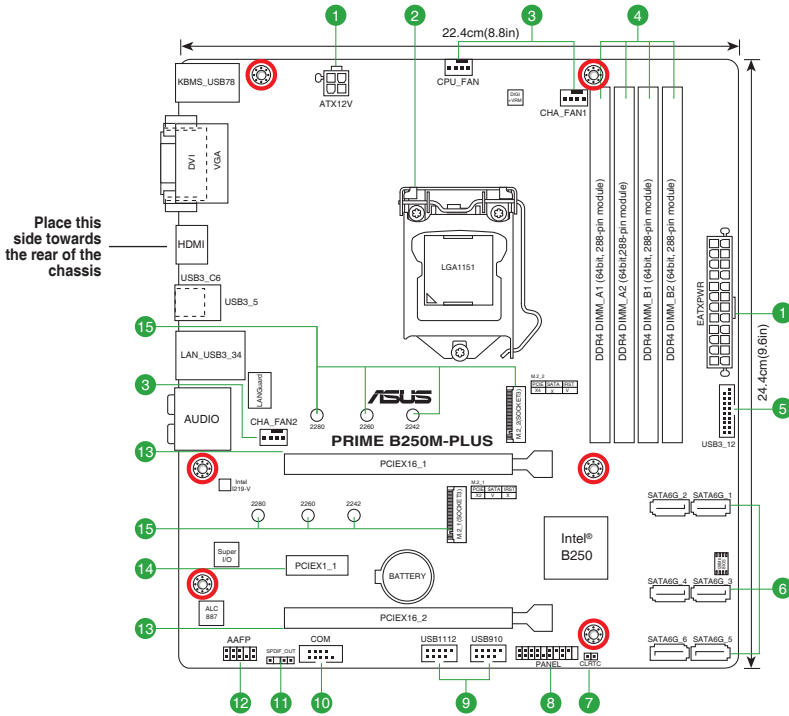
Product introduction

1

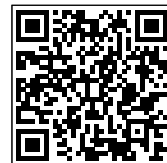
Motherboard overview



- 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, 4-pin ATX12V)

Correctly orient the ATX power supply plugs into these connectors 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 350 W.
- 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.
- If you are uncertain about the minimum power supply requirement for your system, refer to the Recommended Power Supply Wattage Calculator at <http://support.asus.com/PowerSupplyCalculator/PSCalculator.aspx?SLanguage=en-us> for details.

2 Intel® LGA1151 CPU socket

Install Intel® LGA1151 CPU into this surface mount LGA1151 socket, which is designed for 7th/6th Generation Intel® Core™ i7 / i5 / i3, Pentium®, and Celeron® processors.



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

3 CPU and chassis fan connectors (4-pin CPU_FAN, 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! The CPU_FAN connector supports a CPU fan of maximum 1A (12 W) fan power.

4 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**.

5 USB 3.0 connectors (20-1 pin USB3_12)

Connect a USB 3.0 module to any this connector for additional USB 3.0 front or rear panel ports. This connector complies with USB 3.0 specifications and provide faster data transfer speeds of up to 5 Gbps, faster charging time for USB-chargeable devices, optimized power efficiency, and backward compatibility with USB 2.0.

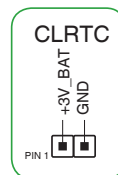


6 Intel® B250 Serial ATA 6.0Gb/s connectors (7-pin SATA6G_1~6)

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

7 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.

8 System panel connector (20-5 pin PANEL)

This connector supports several chassis-mounted functions.

9 USB 2.0 connectors (10-1 pin USB910, USB1112)

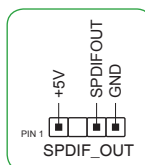
Connect a USB module cable to any of these connectors, then install the module to a slot opening at the back of the system chassis. These USB connectors comply with USB 2.0 specifications and supports up to 480Mbps connection speed.

10 Serial port connector (10-1 pin COM)

Connect the serial port module cable to this connector, then install the module to a slot opening at the back of the system chassis.

11 Digital audio connector (4-1 pin SPDIF_OUT)

Connect the S/PDIF Out module cable to this connector, then install the module to a slot opening at the back of the system chassis.



12 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 [AC'97]. By default, this connector is set to [HD Audio].

13 PCI Express 3.0/2.0 x16 slots

This motherboard supports two PCI Express 3.0/2.0 x16 graphic cards that comply with the PCI Express specifications.

VGA configuration	PCI Express operating mode	
	PCIe 3.0/2.0 x16_1 (gray)	PCIe 3.0/2.0 x16_2
Single VGA/PCIe card	x16 (Recommended for single VGA card)	N/A
Dual VGA/PCIe cards	x16	x4



- In single VGA card mode, use the PCIe 3.0/2.0 x16_1 slot (gray) for a PCI Express x16 graphics card to get better performance.
- We recommend that you provide sufficient power when running CrossFireX™ mode.
- Connect a chassis fan to the motherboard connector labeled CHA_FAN1/2 when using multiple graphics cards for better thermal environment.

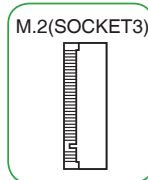
14 PCI Express 3.0/2.0 x1 slot

This motherboard has one PCI Express 3.0/2.0 x1 slots that support PCI Express x1 network cards, SCSI cards, and other cards that comply with the PCI Express specifications.

15

M.2 socket 3

These sockets allow you to install M.2 (NGFF) SSD modules.



- These M.2 sockets support M Key and 2242/2260/2280 storage devices.
- The M.2_1 socket supports data transfer speed up to 16Gb/s.
- The M.2_2 socket supports data transfer speed up to 32Gb/s.
- Only M.2_2 can support Intel® Optane™ Memory. Intel® Optane™ Technology is only supported when using 7th 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.
- When a device in SATA mode is installed on the M.2_1 socket, SATA_1 port cannot be used.

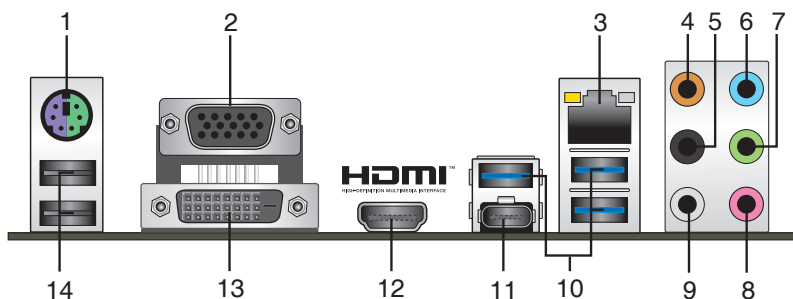
IRQ assignments for this motherboard

	A	B	C	D	E	F	G	H
HD Audio Controller	shared	-	-	-	-	-	-	-
XHCI	shared	-	-	-	-	-	-	-
SATA Controller	shared	-	-	-	-	-	-	-
LAN Controller	shared	-	-	-	-	-	-	-
PCIEx1	-	-	shared	-	-	-	-	-
PCIEx16_1	shared	-	-	-	-	-	-	-
PCIEx16_2	shared	-	-	-	-	-	-	-
M.2_1	shared	-	-	-	-	-	-	-
M.2_2	shared	-	-	-	-	-	-	-



When using PCI cards on shared slots, ensure that the drivers support "Share IRQ" or that the cards do not need IRQ assignments. Otherwise, conflicts will arise between the two PCI groups, making the system unstable and the card inoperable.

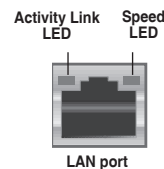
1.2.2 Rear panel connectors



1. **PS/2 Mouse/Keyboard combo port.** This port connects to a PS/2 mouse or PS/2 keyboard.
2. **Video Graphics Adapter (VGA) port.** This 15-pin port is for a VGA monitor or other VGA-compatible devices.
3. **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		



4. **Center / Subwoofer port (orange).** This port connects the center/subwoofer speakers.
5. **Rear Speaker Out port (black).** This port connects the rear speakers in a 4.1 channel, 5.1 channel, or 7.1 channel audio configuration.
6. **Line In port (light blue).** This port connects to the tape, CD, DVD player, or other audio sources.
7. **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.
8. **Microphone port (pink).** This port connects to a microphone.
9. **Side Speaker Out port (gray).** This port connects to the side speakers in a 7.1-channel audio configuration.



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	Line In	Line in	Line in	Line in
Lime	Line Out	Front Speaker Out	Front Speaker Out	Front Speaker Out
Pink	Mic In	Mic In	Mic in	Mic in
Orange	-	-	Center/Subwoofer	Center/Subwoofer
Black	-	Rear Speaker Out	Rear Speaker Out	Rear Speaker Out
Gray	-	-	-	Side Speaker Out

10. **USB 3.0 ports (blue, Type A).** These 9-pin Universal Serial Bus (USB) ports are for USB 3.0 devices.



- USB 3.0 devices can only be used for data storage.
- We strongly recommend that you connect USB 3.0 devices to USB 3.0 ports for faster and better performance from your USB 3.0 devices.
- Due to the design of the Intel® 200 series chipset, all USB devices connected to the USB 2.0 and USB 3.0 ports are controlled by the xHCI controller. Some legacy USB devices must update their firmware for better compatibility.

11. **USB 5Gb/s Type C port.** This 24-pin Universal Serial Bus (USB) port is for USB (Type C) devices.

12. **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.

13. **DVI-D port.** This port is for any DVI-D compatible device.



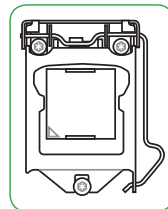
DVI-D can not be converted to output from RGB Signal to CRT and is not compatible with DVI-I.

14. **USB 2.0 ports.** These 4-pin Universal Serial Bus (USB) ports are for USB 2.0/1.1 devices.



Central Processing Unit (CPU)

This motherboard comes with a surface mount LGA1151 socket designed for the 7th/6th Generation Intel® Core™ i7 / Core™ i5 / Core™ i3, Pentium® and Celeron® processors.

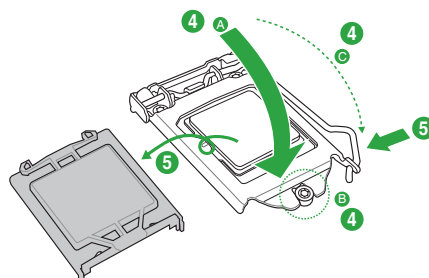
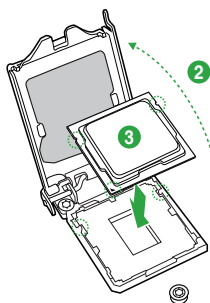
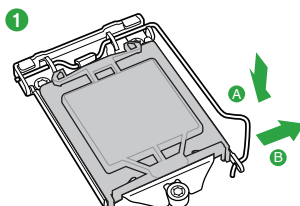
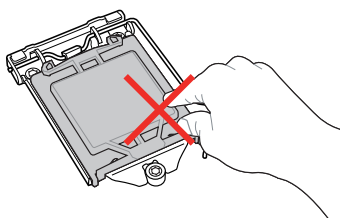


Unplug all power cables before installing the CPU.



- Ensure that you install the correct CPU designed for the LGA1151 socket only. DO NOT install a CPU designed for LGA1150, LGA1155 and LGA1156 sockets on the LGA1151 socket.
- 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.
- 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.

Installing the CPU

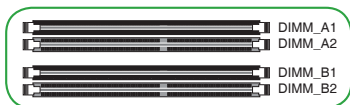


Apply the Thermal Interface Material to the CPU heatsink and CPU before you install the heatsink and fan if necessary.

System memory

Overview

This motherboard comes with four Double Data Rate 4 (DDR4) Dual Inline Memory Module (DIMM) sockets. 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.



Channel	Sockets
Channel A	DIMM_A1 and DIMM_A2
Channel B	DIMM_B1 and 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.
- According to Intel® CPU spec, DIMM voltage below 1.4V is recommended to protect the CPU.
- Due to Intel® chipset limitation, DDR4 2400MHz memory frequency is only supported by 7th Generation Intel® processors. Higher memory modules will run at the maximum transfer rate of DDR4 2400MHz.
- Due to Intel® chipset limitation, DDR4 2133MHz and higher memory modules on 6th Generation Intel® processors will run at the maximum transfer rate of DDR4 2133MHz.
- Due to the memory address limitation on 32-bit Windows® OS, when you install 4GB or more memory on the motherboard, the actual usable memory for the OS can be about 3GB or less. For effective use of memory, we recommend that you do any of the following:
 - Use a maximum of 3GB system memory if you are using a 32-bit Windows® OS.
 - Install a 64-bit Windows® OS if you want to install 4GB or more on the motherboard.
 - For more details, refer to the Microsoft® support site at <http://support.microsoft.com/kb/929605/en-us>.
- Memory modules with memory frequency higher than 2133/2400 MHz and its corresponding timing or the loaded X.M.P. Profile is not the JEDEC memory standard. The stability and compatibility of these memory modules depend on the CPU's capabilities and other installed devices.

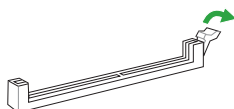


- The default memory operation frequency is dependent on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module. Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.
- For system stability, use a more efficient memory cooling system to support a full memory load (4 DIMMs).
- Refer to www.asus.com for the latest Memory QVL (Qualified Vendors List)

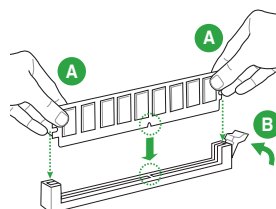


Installing a DIMM

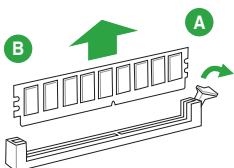
1



2



To remove a DIMM

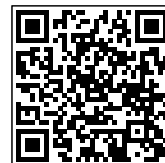


BIOS information

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 **B250MP.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. Refer to the **Setup Mode** item under the **Boot** menu for details.

The screenshot shows the ASUS UEFI BIOS Utility - EZ Mode interface. The top bar displays the date (09/30/2016), time (10:00), and language (English). The main area is divided into several sections:

- Information:** Shows system details like PRIME B250M-PLUS BIOS Ver. 0201, Intel(R) Core(TM) i3-6300 CPU @ 3.80GHz, Speed: 3800 MHz, and Memory: 8192 MB (DDR4 2133MHz).
- CPU Temperature:** Displays CPU Core Voltage (1.200 V) and Motherboard Temperature (27°C).
- DRAM Status:** Lists DIMM slots (A1, A2, B1, B2) and their status (N/A).
- SATA Information:** Lists SATA ports (SATA0G_1 to 6) and their status (N/A).
- EZ System Tuning:** Allows selection of system settings for a power-saving system environment (Quiet, Performance, Energy Saving).
- Boot Priority:** Shows a list of bootable devices (3SYSTEM USB Flash Disk 1.00) and a 'Switch all' button.
- FAN Profile:** Shows CPU FAN (1982 RPM) and CHA1/2 FAN (N/A).
- CPU FAN:** A graph showing fan speed (0-100) vs temperature (0-100°C) with a 'QFan Control' button.
- X.M.P.:** A dropdown menu set to 'Disabled'.

Callouts and their descriptions:

- Displays the CPU/motherboard temperature, CPU voltage output, CPU/chassis fan speed, and SATA information** (points to Information, CPU Temperature, and SATA Information sections).
- Selects the display language of the BIOS setup program** (points to the language icon).
- Displays the system properties of the selected mode. Click <Enter> to switch EZ System Tuning modes** (points to the EZ System Tuning section).
- Displays the CPU Fan's speed. Click the button to manually tune the fans** (points to the CPU FAN RPM and QFan Control button).
- Loads optimized default settings** (points to the Default(F5) button).
- Saves the changes and resets the system** (points to the Save & Exit(F10) button).
- Shows the bootable devices** (points to the Boot Priority section).
- Displays the Advanced mode menus** (points to the Advanced Mode(F7) button).
- Search on FAQs** (points to the Search on FAQ button).
- Selects the boot device priority** (points to the Boot Priority section).



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 top navigation bar with 'My Favorites', 'Main', 'Ai Tweaker', 'Advanced', 'Monitor', 'Boot', 'Tool', and 'Exit'. The 'Ai Tweaker' section is active, showing target frequencies for CPU Turbo-Mode (3800MHz), DRAM (2133MHz), Cache (3800MHz), and CPU Graphics (1150MHz). Below this are configuration fields for CPU Core Ratio, DRAM Odd Ratio Mode, DRAM Frequency, EPU Power Saving Mode, and ASUS System Mode. A 'CPU SVID Support' section is highlighted with a pop-up window containing a warning: 'Disable this item to prevent the CPU from communicating with the external voltage regulator. A setting of Disabled is recommended for overclocking.' The right-hand side features a 'Hardware Monitor' panel displaying CPU frequency (3800 MHz), temperature (48°C), BCLK (100.0 MHz), core voltage (1.200 V), ratio (38x), memory frequency (2133 MHz), and voltage (1.200 V). At the bottom, there are options for 'Last Modified', 'EzMode(F7)', and 'Search on FAQ'. Red lines and boxes connect these elements to descriptive labels: 'Menu bar' points to the top navigation; 'MyFavorite' points to the 'My Favorites' tab; 'Q-Fan control' and 'Hot Keys' point to their respective icons; 'Sub-menu item' points to the 'Ai Tweaker' tab; 'General help' points to the information icon; 'Pop-up window' points to the CPU SVID warning; 'Scroll bar' points to the vertical scrollbar in the CPU SVID section; 'Last modified settings' points to the 'Last Modified' button; 'Searches FAQ' points to the 'Search on FAQ' button; 'Menu items' points to the left-hand navigation pane; 'Configuration fields' points to the various BIOS settings; and 'Displays the CPU temperature, CPU and memory voltage output' points to the Hardware Monitor panel.

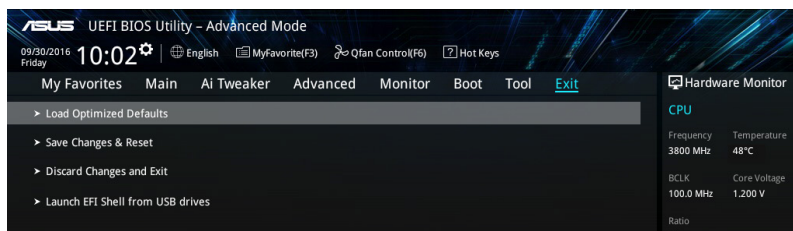
Search on FAQ

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

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.

IC: Canadian Compliance Statement

Complies with the Canadian ICES-003 Class B specifications. This device complies with RSS 210 of Industry Canada. This Class B device meets all the requirements of the Canadian interference-causing equipment regulations.

This device complies with Industry Canada license 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.

Cet appareil numérique de la Classe B est conforme à la norme NMB-003 du Canada. Cet appareil numérique de la Classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Cet appareil est conforme aux normes CNR exemptes de licence d'Industrie Canada. Le fonctionnement est soumis aux deux conditions suivantes :

- (1) cet appareil ne doit pas provoquer d'interférences et
- (2) cet appareil doit accepter toute interférence, y compris celles susceptibles de provoquer un fonctionnement non souhaité de l'appareil.

Canadian Department of Communications Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

This class B digital apparatus complies with Canadian ICES-003.

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

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

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: This product may contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling.

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

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

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

Hrvatski ASUSTeK Computer Inc. ovim izjavi da je ovaj uređaj skladan s bitnim zahtjevima i ostalim odgovarajućim odredbama vezanih direktiva. Cijeli tekst EU izjave o skladnosti dostupan je na: www.asus.com/support

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

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

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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>





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 : PRIME B250M-PLUS

Conforms to the following specifications:

FCC Part 15, Subpart B, Unintentional Radiators

Supplementary Information:

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

Representative Person's Name : Steve Chang / President

Signature :

Date : Nov. 11, 2016

Ver. 140331

