

**EX-H110M-V**



# Motherboard

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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. Detailed descriptions for the BIOS parameters are also provided.

## 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.

<b>Motherboard</b>	ASUS EX-H110M-V motherboard
<b>Accessories</b>	1 x I/O Shield 1 x SATA cable
<b>Application DVD</b>	1 x Support CD
<b>Documentation</b>	User Guide



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

## EX-H110M-V specifications summary

<b>CPU</b>	Intel® LGA1151 socket for 6th Generation Intel® Core™ i7/ i5/ i3 Pentium® and Celeron® processors Supports 14nm CPU Supports Intel® Turbo Boost Technology 2.0 <b>* The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.</b> <b>** Refer to <a href="http://www.asus.com">www.asus.com</a> for Intel® CPU support list.</b>
<b>Chipset</b>	Intel® H110 Chipset
<b>Memory</b>	2 x DIMMs, max. 32 GB, DDR4 2133 MHz, non-ECC Dual-channel memory architecture <b>* Hyper DIMM support is subject to the physical characteristics of individual CPUs. Please refer to Memory QVL (Qualified Vendors List) for details.</b> <b>** Refer to <a href="http://www.asus.com">www.asus.com</a> for the Memory QVL(Qualified Vendors List).</b>
<b>Graphics</b>	Integrated Graphics Processor - Intel® HD Graphics support VGA output support: D-SUB - Supports D-SUB with max. resolution of 1920 x 1200 @ 60Hz - Supports Quick Sync Video/ Clear Video HD Technology - Maximum UMA memory of 1024 MB
<b>Expansion slots</b>	1 x PCI Express 3.0/2.0 x16 slot (@ x16 mode) 2 x PCI Express 2.0 x1 slots
<b>Audio</b>	Realtek ALC887 8-channel High Definition Audio CODEC <b>* Use a chassis with HD audio module in the front panel to support an 8-channel audio output.</b>
<b>Storage</b>	<b>Intel® H110 Express Chipset</b> - 4 x Serial ATA 6.0 Gb/s connectors
<b>LAN</b>	Realtek® RTL8111H Gigabit LAN
<b>USB</b>	<b>Intel® H110 Express Chipset</b> - 4 x USB 3.0/ 2.0 ports (2 ports at mid-board, 2 ports at the back panel) - 6x USB 2.0/1.1 ports (2 ports at mid-board, 4 ports at the back panel)

(continued on the next page)

# EX-H110M-V specifications summary

ASUS unique features	<b>Non-stop Durability</b> <b>Anti-moisture coating*</b> <ul style="list-style-type: none"><li>- Outstanding protection against moisture and corrosion</li></ul> <b>USBGuard</b> <ul style="list-style-type: none"><li>- 120% higher voltage tolerance</li></ul> <b>ASUS 5X PROTECTION II</b> <ul style="list-style-type: none"><li>- ASUS LANGuard - Surge-protected networking</li><li>- ASUS Overvoltage Protection - World-class circuit-protecting power design</li><li>- ASUS DIGI+ VRM - Stable power supply</li><li>- ASUS DRAM Overcurrent Protection - Enhanced DRAM overcurrent protection</li><li>- ASUS Stainless Steel Back I/O - 3X more durable</li><li>- ESD Guard - Electrostatic discharge protection</li></ul>
	<b>Non-Stop Challenger</b> <b>ASUS iCafe Labs Certified</b> <ul style="list-style-type: none"><li>- Proven compatibility with diskless solution</li></ul>
	<b>Non-stop Gaming</b> <b>Audio features</b> <ul style="list-style-type: none"><li>- Separate layers for left and right tracks ensures both channels deliver consistent, equal quality.</li><li>- Audio shielding ensures precision analog/digital separation and greatly reduced multi-lateral interference</li><li>- Premium Japanese-made audio capacitors provide warm, natural and immersive sound with exceptional clarity and fidelity</li></ul>
	<b>EZ DIY</b> <b>ASUS Q-Design</b> <ul style="list-style-type: none"><li>- ASUS Q-Slot</li><li>- ASUS Q-DIMM</li></ul> <b>One Stop Control</b> <ul style="list-style-type: none"><li>- AI Charger</li><li>- AI Suite 3</li></ul>
	<b>* Optional feature. The coating design varies by request.</b>
Rear panel I/O ports	1 x PS/2 keyboard (purple) 1 x PS/2 mouse port (green) 1 x LAN (RJ-45) port 2 x USB 3.0/ 2.0 ports 4 x USB 2.0/ 1.1 ports 1 x D-SUB port 3 x Audio jacks support 8-channel audio output

(continued on the next page)

## EX-H110M-V specifications summary

<b>Internal connectors</b>	1 x USB 2.0/1.1 connectors support additional 2 USB 2.0/1.1 ports 1 x USB 3.0 connector support additional 2 USB 3.0 ports 4 x SATA 6.0Gb/s connectors 1 x TPM connector (14-1 pin TPM) 1 x CPU fan connector 1 x Chassis fan connector 1 x Front panel audio connector 1 x 24-pin EATX power connector 1 x 4-pin ATX 12V power connector 1 x Speaker header 1 x Clear RTC RAM (2 pin) 1 x COM header 1 x LPT connector 1 x S/PDIF Out header 1 x System panel connector
<b>BIOS features</b>	64 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI3.0, WfM2.0, SM BIOS 3.0, ACPI 5.0, Multi-language BIOS, F12 PrintScreen
<b>Manageability</b>	WfM 2.0, DMI 3.0, WOL by PME
<b>Support DVD</b>	Drivers ASUS utilities
<b>OS support</b>	Windows® 10 (64-bit only) Windows® 8.1 Windows® 7
<b>Form factor</b>	uATX Form Factor, 8.9" x 7.1" in (22.6 cm x 18.03cm)



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Specifications are subject to change without notice.

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## 1 CPU and chassis fan connectors (4-pin CPU\_FAN, 4-pin CHA\_FAN)

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.

## 2 ATX power connectors (24-pin EATXPWR, 4-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 350 W.
- DO NOT forget to connect the 4-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.
- 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.

## 3 Intel® LGA1151 CPU socket

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



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

## 4 DDR4 DIMM slots

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



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

## 5 Intel® H110 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.



When using hot-plug and NCQ, set the **SATA Mode Selection** item in the BIOS to [AHCI].

6

**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.

7

**System panel connector (10-1 pin F\_PANEL)**

This connector supports several chassis-mounted functions.

8

**USB 2.0 connector (10-1 pin USB910)**

Connect the USB module cable to this connector, then install the module to a slot opening at the back of the system chassis. This USB connector complies with USB 2.0 specifications and supports up to 480Mbps connection speed.

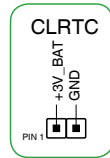
9

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




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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.

---

10

**USB 3.0 connector (20-1 pin USB3\_12)**

Connect a USB 3.0 module to 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.

11

**Digital audio connector (4-1 pin SPDIF\_OUT)**

This connector is for an additional Sony/Philips Digital Interface (S/PDIF) port. 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

**LPT connector (26-1 pin LPT)**

Connect a parallel port device such as a printer to this LPT (Line Printing Terminal) connector.

### 13 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].

### 14 PCI Express 2.0 x1 slots

This motherboard supports PCI Express x1 network cards, SCSI cards, and other cards that comply with the PCI Express specifications.

### 15 PCI Express 3.0/2.0 x16 slots

This motherboard has two PCI Express 3.0/2.0 x16 slots that support PCI Express 3.0/2.0 x16 graphic cards complying 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 (black)
Single VGA/PCIe card	x16 (Recommended for single VGA card)	N/A
Dual VGA/PCIe card	x16	x8

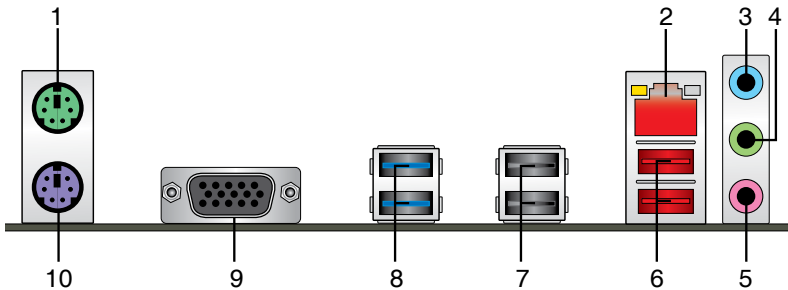


- In single VGA card mode, use the PCIe 3.0/2.0 x16\_1 slot (gray) for a PCI Express x16 graphics card to get better performance.
- We recommend that you provide sufficient power when using multiple graphics cards. See page 1-3 for details.
- Connect a chassis fan to the motherboard connector labeled CHA\_FAN1/2 when using multiple graphics cards for better thermal environment.

## IRQ assignments for this motherboard

	A	B	C	D
SATA Controller	shared	–	–	–
PCIEx16_1	shared	–	–	–
Realtek 8111H LAN Controller	–	–	–	shared
High-Definition Audio	shared	–	–	–
XHCI Controller	shared	–	–	–
PCIEx1_1	–	shared	–	–
PCIEx1_2	–	–	shared	–

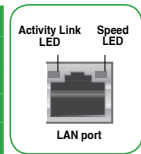
## Rear panel connectors



1. **PS/2 mouse port (green).** This port is for a PS/2 mouse.
2. **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	-	-



3. **Line In port (light blue).** This port connects the tape, CD, DVD player, or other audio sources.
4. **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.
5. **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



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**To configure a 7.1-channel audio output:**

Use a chassis with HD audio module in the front panel to support a 7.1-channel audio output.

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- 6. USB 2.0 ports (USBGuard support).** These 4-pin Universal Serial Bus (USB) ports are for USB 2.0/1.1 devices.
- 7. USB 2.0 ports.** These 4-pin Universal Serial Bus (USB) ports are for USB 2.0/1.1 devices.
- 8. USB 3.0 ports.** These 9-pin Universal Serial Bus (USB) ports are for USB 3.0/2.0 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® 100 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.
- 

- 9. Video Graphics Adapter (VGA) port.** This 15-pin port is for a VGA monitor or other VGA-compatible devices.
- 10. PS/2 keyboard port (purple).** This port is for a PS/2 keyboard.

## Central Processing Unit (CPU)

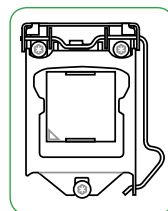
This motherboard comes with a surface mount LGA1150 socket designed for 4th Generation Intel® Core™ i7/ i5/ i3, Dual-Core Pentium® and Celeron® processors.



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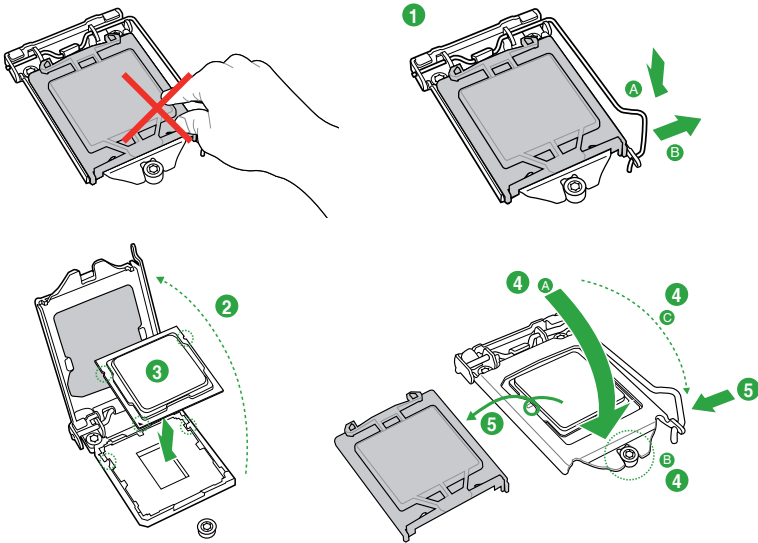
Unplug all power cables before installing the CPU.

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- 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 LGA1150 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 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
Channel B	DIMM_B1



- 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.



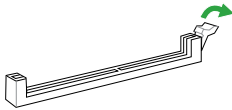
- According to Intel® CPU spec, DIMM voltage below 1.35V is recommended to protect the CPU.
- Due to the memory address limitation on 32-bit Windows® OS, when you install 4GB or more memory on the motherboard, the actual usable memory for the OS can be about 3GB or less. For effective use of memory, 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 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.



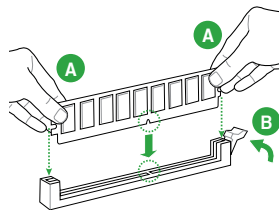
- The default memory operation frequency is dependent on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module. Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.
- For system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

## Installing a DIMM

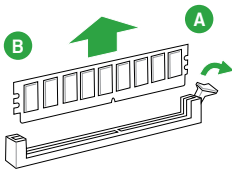
1



2



### To remove a DIMM



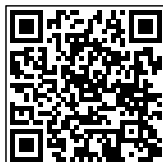


# BIOS information

# 2



Scan the QR code to view the BIOS update guide.



## 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>+<Del> 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>+<Del> 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.



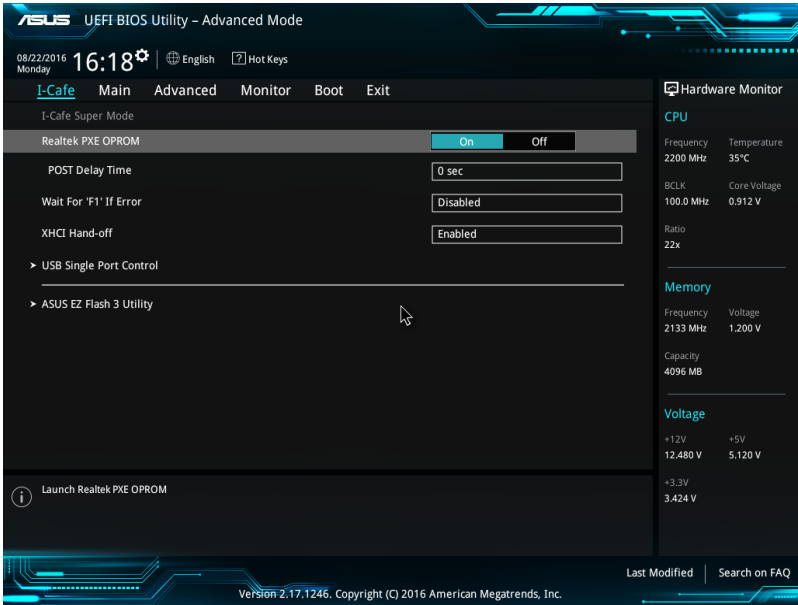
- The BIOS setup screens shown in this section are for reference purposes only, and may not exactly match what you see on your screen.
- Visit the ASUS website at [www.asus.com](http://www.asus.com) to download the latest BIOS file for this motherboard.
- If the system becomes unstable after changing 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 the **Advanced Mode**.

# I-Cafe

The items in this menu allows you to configure some quick settings for the I-Cafe feature.



## Realtek PXE Option ROM

This item allows you to enable or disable the PXE OptionRom of the Realtek LAN controller.

## Wait for 'F1' If Error

When this item is set to [Enabled], the system waits for the F1 key to be pressed when error occurs.

## XHCI Hand-off

This item allows you to enable or disable the XHCI hand-off feature for operating system without XHCI hand-off support.

## USB Single Port Control

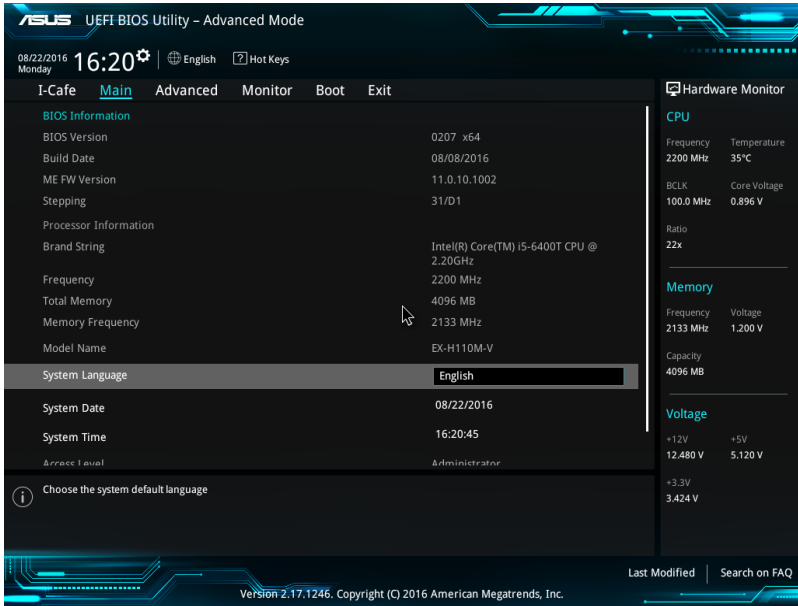
This item allows you to enable or disable the individual USB ports.

## ASUS EZ Flash 3 Utility

Allows you to run ASUS EZ Flash 3. Press [Enter] to launch the ASUS EZ Flash 3 screen.

# 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.



## System Language [English]

Allows you to choose the BIOS language version from the options. Configuration options: [English]

## System Date [Day xx/xx/xxxx]

Allows you to set the system date.

## System Time [xx:xx:xx]

Allows you to set the system time.

## Security

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



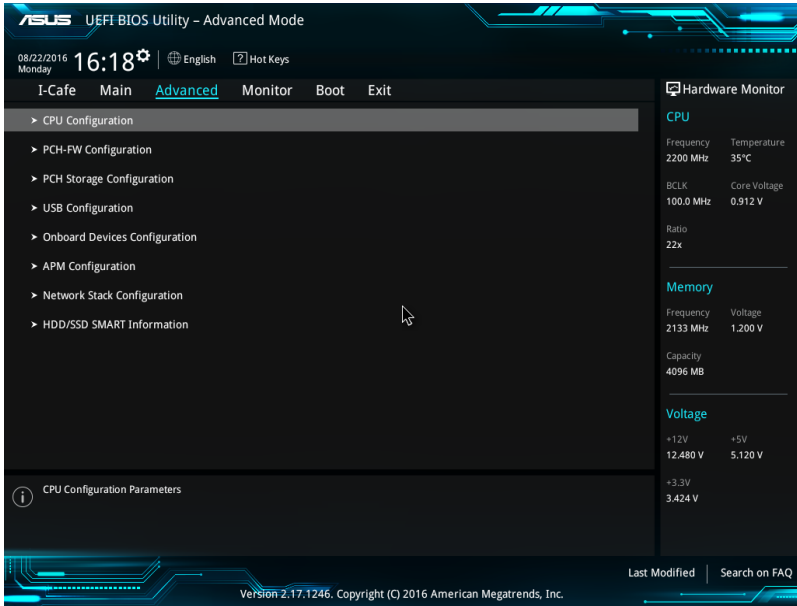
- If you have forgotten your BIOS password, erase the CMOS Real Time Clock (RTC) RAM to clear the BIOS password. See section 1.6 Jumpers for information on how to erase the RTC RAM.
- The **Administrator** or **User Password** items on top of the screen show the default **Not Installed**. After you set a password, these items show **Installed**.

# 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.



## CPU Configuration

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

## PCH-FW Configuration

The items in this menu allows you to configure the management engine technology settings.

## PCH Storage Configuration

While entering Setup, the BIOS automatically detects the presence of SATA devices. The SATA Port items show Empty if no SATA device is installed to the corresponding SATA port.

## USB Configuration

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

## Onboard Devices Configuration

The items in this menu allow you to configure the onboard devices.

## APM Configuration

The items in this menu allow you to configure the advanced power management settings.

## Network Stack Configuration

The items in this menu allow you to configure the network stack settings.

## Monitor menu

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

ASUS UEFI BIOS Utility - Advanced Mode

08/22/2016 Monday 16:19 English Hot Keys

I-Cafe Main Advanced **Monitor** Boot Exit

Hardware Monitor

CPU Temperature	+35°C / +95°F
MotherBoard Temperature	+31°C / +87°F
CPU Fan Speed	1936 RPM
Chassis Fan Speed	N/A
CPU Core Voltage	+0.896 V
3.3V Voltage	+3.424 V
5V Voltage	+5.120 V
12V Voltage	+12.480 V

> Q-Fan Configuration

Hardware Monitor

**CPU**

Frequency	2200 MHz	Temperature	35°C
BCLK	100.0 MHz	Core Voltage	0.896 V
Ratio	22x		

**Memory**

Frequency	2133 MHz	Voltage	1.200 V
Capacity	4096 MB		

**Voltage**

+12V	+5V
12.480 V	5.120 V
+3.3V	
3.424 V	

Last Modified | Search on FAQ

Version 2.17.1246. Copyright (C) 2016 American Megatrends, Inc.

## CPU/ MB Temperature

The onboard hardware monitor automatically detects and displays the CPU and motherboard temperatures. Select **[Ignore]** if you do not wish to display the detected temperatures.

## CPU Fan/ Chassis Fan Speed

The onboard hardware monitor automatically detects and displays the CPU and chassis fan 1/2 speeds in rotations per minute (RPM). If the fan is not connected to the motherboard, the field shows N/A. Select **[Ignore]** if you do not wish to display the detected speed.

## CPU Core Voltage, 3.3V Voltage, 5V Voltage, 12V Voltage

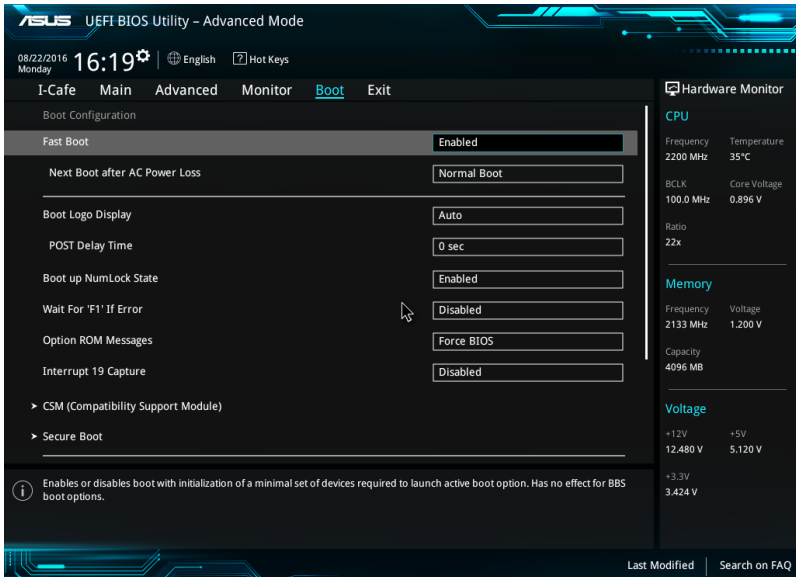
The onboard hardware monitor automatically detects the voltage output through the onboard voltage regulators. Select **[Ignore]** if you do not want to detect this item.

## Q-Fan Configuration

The subitems in this menu allows you to configure the Q-Fan features.

## Boot menu

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



### Fast Boot

This item allows you to accelerate the boot speed.

### Boot Logo Display

This item allows you to configure the boot logo display settings.

### Bootup NumLock State

This item allows you to enable or disable power-on state of the NumLock.

### Wait for 'F1' If Error

When this item is set to **[Enabled]**, the system waits for the F1 key to be pressed when error occurs.

## Option ROM Messages

This item allows you to configure how the third-party ROM messages will be displayed during the boot sequence.

## Interrupt 19 Capture

This item allows you to trap Interrupt 19 by the option ROMs.

## CSM (Compatibility Support Module)

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.

## Secure Boot

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.



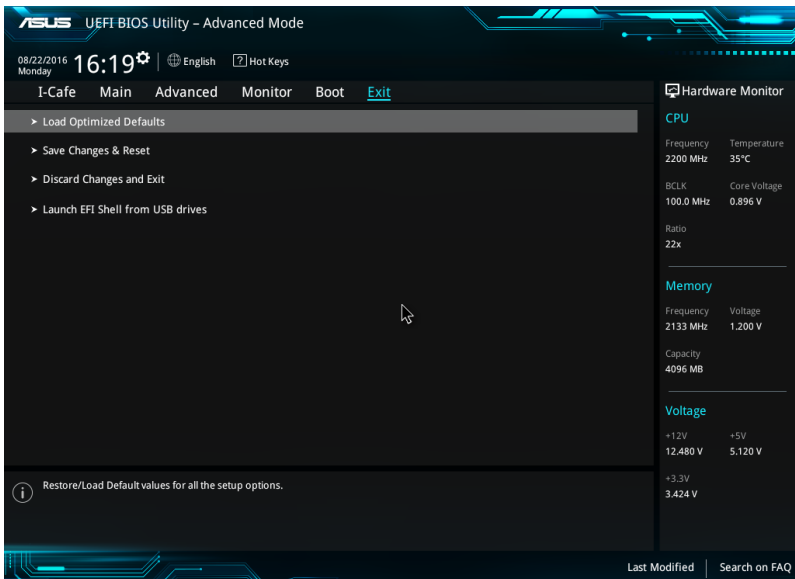
- 
- To access Windows® OS in Safe Mode, press <F8 > after POST (Windows® 8 not supported).
  - To select the boot device during system startup, press <F8> when ASUS Logo appears.
- 

## 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.

## 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.



# Appendices

## 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

This is a Class B product based on the standard of the VCCI Council. If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

## KC: Korea Warning Statement

B급 기기 (가정용 방송통신기자재)

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>.



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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.

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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.

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## 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.

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**English** AsusTek Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of CE Directives. Please see the CE Declaration of Conformity for more details.

**Français** AsusTek Inc. déclare par la présente que cet appareil est conforme aux critères essentiels et autres clauses pertinentes des directives européennes. Veuillez consulter la déclaration de conformité CE pour plus d'informations.

**Deutsch** AsusTek Inc. erklärt hiermit, dass dieses Gerät mit den wesentlichen Anforderungen und anderen relevanten Bestimmungen der CE-Richtlinien übereinstimmt. Weitere Einzelheiten entnehmen Sie bitte der CE-Konformitätserklärung.

**Italiano** AsusTek Inc. con la presente dichiara che questo dispositivo è conforme ai requisiti essenziali e alle altre disposizioni pertinenti alle direttive CE. Per maggiori informazioni fate riferimento alla dichiarazione di conformità CE.

**Русский** Компания ASUS заявляет, что это устройство соответствует основным требованиям и другим соответствующим условиям европейских директив. Подробную информацию, пожалуйста, смотрите в декларации соответствия.

**Български** С настоящото AsusTek Inc. декларира, че това устройство е в съответствие със съществениите изисквания и другите приложими постановления на директивите CE. Вижте CE декларацията за съвместимост за повече информация.

**Hrvatski** AsusTek Inc. ovim izjavljuje da je ovaj uređaj sukladan s bitnim zahtjevima i ostalim odgovarajućim odredbama CE direktiva. Više pojedinosti potražite u CE izvaji o sukladnosti.

**Čeština** Společnost AsusTek Inc. tímto prohlašuje, že toto zařízení splňuje základní požadavky a další příslušná ustanovení směrnice CE. Další podrobnosti viz Prohlášení o shodě CE.

**Dansk** AsusTek Inc. Erklærer hermed, at denne enhed er i overensstemmelse med hovedkravene and andre relevante bestemmelser i CE-direktivet. Du kan læse mere i CE-overensstemmelseserklæring.

**Nederlands** AsusTek Inc. verklaart hierbij dat dit apparaat compatibel is met de essentiële vereisten en andere relevante bepalingen van CE-richtlijnen. Raadpleeg de CE-verklaring van conformiteit voor meer details.

**Eesti** Käesolevaga kinnitab AsusTek Inc., et see seade vastab CE direktiivide oluliste nõuetele ja teisteles asjakohastele sätetele. Vt üksikasju CE vastavusdeklaratsioonist.

**Suomi** AsusTek Inc. vakuuttaa täten, että tämä laite on CE-direktiivien olennaisten vaatimusten ja muiden asiaan kuuluvien lisäysten mukainen. Katso lisätietoja CE-vaatimustenmukaisuusvakuutuksesta.

**Ελληνικά** Με το παρόν, η AsusTek Inc. δηλώνει ότι αυτή η συσκευή συμμορφώνεται με τις θεμελιώδεις απαιτήσεις και άλλες σχετικές διατάξεις των Οδηγιών της ΕΕ. Για περισσότερες λεπτομέρειες ανατρέξτε στην Δήλωση Συμμόρφωσης ΕΕ.

**Magyar** Az AsusTek Inc. ezennel kijelenti, hogy a készülék megfelel a CE-irányelvek alapvető követelményeinek és ide vonatkozó egyéb rendelkezéseinek. További részletekért tekintse meg a CE-megfelelőségi nyilatkozatot.

**Latviski** Lidz ar šo AsusTek Inc. paziņo, ka šī ierīce atbilst būtiskajām prasībām un citiem saistošajiem nosacījumiem, kas norādīti CE direktīvā. Lai uzzinātu vairāk, skatiet CE Atbilstības deklarāciju.

**Lietuvių** Šiuo dokumentu bendrovė „AsusTek Inc.“ pareiškia, kad šis įrenginys atitinka pagrindinius CE direktyvų reikalavimus ir kitas susijusias nuostatas. Daugiau informacijos rasite CE atitikties deklaracijoje.

**Norsk** AsusTek Inc. erklærer herved at denne enheten er i samsvar med hovedsaklige krav og andre relevante forskrifter i CE-direktivet. Du finner mer informasjon i CE-samsvarserklæringen.

**Polski** Niniejszym AsusTek Inc. deklaruje, że to urządzenie jest zgodne z istotnymi wymaganiami oraz innymi powiązanymi zaleceniami Dyrektywy CE. W celu uzyskania szczegółów, sprawdź Deklarację zgodności CE.

**Português** A AsusTek Inc. declara que este dispositivo está em conformidade com os requisitos essenciais e outras disposições relevantes das Diretivas da CE. Para mais detalhes, consulte a Declaração de Conformidade CE.

**Română** Prin prezenta, AsusTek Inc. declară faptul că acest dispozitiv respectă cerințele esențiale și alte prevederi relevante ale directivelor CE. Pentru mai multe detalii, consultați declarația de conformitate CE.

**Srpski** AsusTek Inc. ovim izjavljuje da je ovaj uređaj u saglasnosti sa ključnim zahtjevima i drugim relevantnim odredbama CE Direktiva. Molimo vas, pogledajte CE Deklaraciju o uskladenosti za više detalja.

**Slovensky** Spoločnosť AsusTek Inc. týmto prehlasuje, že toto zariadenie vyhovuje príslušným požiadavkám a ďalším súvisiacim ustanoveniam smerníc ES. Viac podrobností si pozrite v prehlásení o zhode ES.

**Slovenščina** AsusTek Inc. tukaj izjavlja, da je ta naprava skladna s temeljnimi zahtevami in drugimi relevantnimi določili direktiv CE. Za več informacij glejte izjavo CE o skladnosti.

**Español** Por la presente, AsusTek Inc. declara que este dispositivo cumple los requisitos básicos y otras disposiciones relevantes de las directivas de la CE. Consulte la Declaración de conformidad de la CE para obtener más detalles.

**Svenska** AsusTek Inc. förklarar härmed att denna enhet är i överensstämmelse med de grundläggande kraven och andra relevanta bestämmelser i CE-direktiven. Se CE-försäkran om överensstämmelse för mer information.

**Українська** AsusTek Inc. заявляє, що цей пристрій відповідає основним вимогам відповідних Директив ЄС. Будь ласка, див. більше подробиць у Декларації відповідності нормам ЄС.

**Türkçe** AsusTek Inc., bu aygıtın temel gereksinimleri ve CE Yönergelerinin diğer ilgili koşullarına uyumlu olduğunu beyan eder. Daha fazla ayrıntı için lütfen CE Uygunluk Beyanına bakın.

**Bosanski** AsusTek Inc. ovim potvrđuje da je ovaj uređaj uskladen s osnovnim zahtjevima i drugim relevantnim propisima Direktiva EK. Za više informacija molimo pogledajte Deklaraciju o uskladenosti EK.

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

## EU Konformitätserklärung

Hiermit erklären wir,

Hersteller: ASUSTEK COMPUTER INC.  
 Anschrift: 4F, No. 150, LITE Rd., PEITOU, TAIPEI 112, TAIWAN  
 Bevollmächtiger: ASUS COMPUTER GmbH  
 Anschrift des Bevollmächtigten: HARKORT STR. 21-23, 40880 RATINGEN  
 GERMANY  
 Land: GERMANY

das nachstehend bezeichnete Produkte

Produktbezeichnung: Motherboard  
 Modellbezeichnung: EX-H110M-V

mit den nachstehend angegebenen, für das Produkt geltenden Richtlinienbestimmungen übereinstimmend:

- EN 55022:2010/AC:2011
- EN 55024:2010
- EN 55013:2010/A1:2009/A2:2006
- EN 55020:2007/A1:2011

- RALTE – Richtlinie 1999/95/EG**
- EN 300 328 V1.8.1 (2012-08)
  - EN 300 440-2 V1.4 (2010-08)
  - EN 301 488-1 V1.8.2 (2011-09)
  - EN 301 488-4 V2.1 (2013-12)
  - EN 301 488-7 V1.3 (2009-11)
  - EN 301 883 V1.7 (2012-09)
  - EN 301 883 V1.7.1 (2013-04)
  - EN 301 883 V1.7.2 (2013-04)
  - EN 301 883 V1.7.3 (2013-04)
  - EN 301 883 V1.7.4 (2013-04)
  - EN 301 883 V1.7.5 (2013-04)
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  - EN 301 883 V1.7.11 (2013-04)
  - EN 301 883 V1.7.12 (2013-04)
  - EN 301 883 V1.7.13 (2013-04)
  - EN 301 883 V1.7.14 (2013-04)
  - EN 301 883 V1.7.15 (2013-04)
  - EN 301 883 V1.7.16 (2013-04)
  - EN 301 883 V1.7.17 (2013-04)
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  - EN 301 883 V1.7.33 (2013-04)
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  - EN 301 883 V1.7.36 (2013-04)
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  - EN 301 883 V1.7.76 (2013-04)
  - EN 301 883 V1.7.77 (2013-04)
  - EN 301 883 V1.7.78 (2013-04)
  - EN 301 883 V1.7.79 (2013-04)
  - EN 301 883 V1.7.80 (2013-04)
  - EN 301 883 V1.7.81 (2013-04)
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  - EN 301 883 V1.7.84 (2013-04)
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  - EN 301 883 V1.7.89 (2013-04)
  - EN 301 883 V1.7.90 (2013-04)
  - EN 301 883 V1.7.91 (2013-04)
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  - EN 301 883 V1.7.93 (2013-04)
  - EN 301 883 V1.7.94 (2013-04)
  - EN 301 883 V1.7.95 (2013-04)
  - EN 301 883 V1.7.96 (2013-04)
  - EN 301 883 V1.7.97 (2013-04)
  - EN 301 883 V1.7.98 (2013-04)
  - EN 301 883 V1.7.99 (2013-04)
  - EN 301 883 V1.8 (2013-09)

- LVD – Richtlinie 2006/95/EG (bis 19. April 2010) und Richtlinie 2014/35/EU (ab 20. April 2010)**
- EN 60950-1:2006/A12:2011
- EN 60950-1:2006/A12:2011
- EN 60950-1:2006/A12:2011
- EN 60950-1:2006/A12:2011

- Ökodesign – Richtlinie 2009/12/EG**
- Verordnung (EG) Nr. 279/2009
- Verordnung (EG) Nr. 642/2009

- RoHS – Richtlinie 2011/65/EU**
- CE Kennzeichnung**
- Seitendruck**

Ww: 180217

(EU Konformitätszeichen)



Unterschrift  
 Jerry Shen  
 Name  
 24/8/2016  
 Datum  
 2016  
 Jahr der Kennzeichnungsgabe

Ort  
 Taipei, Taiwan  
 Position  
 Jahr der Kennzeichnungsgabe

## EU Declaration of Conformity

We, the undersigned,

Manufacturer: ASUSTEK COMPUTER INC.  
 Address: 4F, No. 150, LITE Rd., PEITOU, TAIPEI 112, TAIWAN  
 Authorized representative in Europe: ASUS COMPUTER GmbH  
 Address, City: HARKORT STR. 21-23, 40880 RATINGEN  
 GERMANY  
 Country: GERMANY

declare the following apparatus:

Product name: Motherboard  
 Model name: EX-H110M-V

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

- EN 55022:2010/AC:2011
- EN 55024:2010
- EN 61000-3-2:2014
- EN 55013:2010/A1:2009/A2:2006
- EN 55020:2007/A1:2011

- RALTE – Directive 1999/95/EC**
- EN 300 328 V1.8.1 (2012-08)
  - EN 300 440-2 V1.4 (2010-08)
  - EN 301 445-1 V1.8 (2011-09)
  - EN 301 488-1 V1.8.2 (2011-09)
  - EN 301 488-4 V2.1 (2013-12)
  - EN 301 488-7 V1.3 (2009-11)
  - EN 301 883 V1.7 (2012-09)
  - EN 301 883 V1.7.1 (2013-04)
  - EN 301 883 V1.7.2 (2013-04)
  - EN 301 883 V1.7.3 (2013-04)
  - EN 301 883 V1.7.4 (2013-04)
  - EN 301 883 V1.7.5 (2013-04)
  - EN 301 883 V1.7.6 (2013-04)
  - EN 301 883 V1.7.7 (2013-04)
  - EN 301 883 V1.7.8 (2013-04)
  - EN 301 883 V1.7.9 (2013-04)
  - EN 301 883 V1.7.10 (2013-04)
  - EN 301 883 V1.7.11 (2013-04)
  - EN 301 883 V1.7.12 (2013-04)
  - EN 301 883 V1.7.13 (2013-04)
  - EN 301 883 V1.7.14 (2013-04)
  - EN 301 883 V1.7.15 (2013-04)
  - EN 301 883 V1.7.16 (2013-04)
  - EN 301 883 V1.7.17 (2013-04)
  - EN 301 883 V1.7.18 (2013-04)
  - EN 301 883 V1.7.19 (2013-04)
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  - EN 301 883 V1.7.24 (2013-04)
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  - EN 301 883 V1.7.48 (2013-04)
  - EN 301 883 V1.7.49 (2013-04)
  - EN 301 883 V1.7.50 (2013-04)
  - EN 301 883 V1.7.51 (2013-04)
  - EN 301 883 V1.7.52 (2013-04)
  - EN 301 883 V1.7.53 (2013-04)
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  - EN 301 883 V1.7.75 (2013-04)
  - EN 301 883 V1.7.76 (2013-04)
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  - EN 301 883 V1.7.98 (2013-04)
  - EN 301 883 V1.7.99 (2013-04)
  - EN 301 883 V1.8 (2013-09)

- LVD – Directive 2006/95/EC (until April 19th, 2010) and Directive 2014/35/EU (from April 20th, 2010)**
- EN 60950-1:2006/A12:2011
- EN 60950-1:2006/A12:2011
- EN 60950-1:2006/A12:2011
- EN 60950-1:2006/A12:2011

- Ecodesign – Directive 2009/12/EC**
- Regulation (EC) No. 279/2009
- Regulation (EC) No. 642/2009

- RoHS – Directive 2011/65/EU**
- CE marking**
- Equipment Class 1**

Ww: 180217

(EU conformity marking)



Signature  
 Jerry Shen  
 Printed Name  
 CEO  
 Position

Place of issue  
 Taipei, Taiwan  
 Date of issue  
 24/8/2016  
 Year CE marking was first affixed  
 2016

## UE Declaración de Conformidad

Nosotros, los abajo firmantes,

**Fabricante:** ASUS/TEK COMPUTER INC.  
**Dirección:** 4F, No. 150, LI-TE Rd., PEITOU, TAIPEI 112, TAIWAN  
**Representante autorizado en Europa:** ASUS COMPUTER GmbH  
**Representante autorizado en España:** HAKKO/ S/ R/ Z/ S/ 4086/PAT/NGEN  
**País:** GERMANY

**Declaramos el siguiente producto:**

**Nombre del aparato:** Motherboard  
**Nombre del modelo:** EX-H110M-V

El objeto de la declaración descrita anteriormente es conforme con la legislación de armonización pertinente de la Unión:

**EMC Directiva 2014/53/UE (hasta el 19 de abril de 2016) y Directiva 2014/53/UE (desde el 20 de abril de 2016)**

EN 55033:2011/A1:2013  
 EN 55035:2011  
 EN 55033:2011/A1:2013/A2:2006  
 EN 55035:2011/A2:2006

**RAITE – Directiva 93/68/CEE**

EN 300 338 V1.8 (1207-06)  
 EN 300 440-2 V1.4 (12013-08)  
 EN 301 488-3 V1.5 (2013-09)  
 EN 301 488-4 V2.1 (2013-12)  
 EN 301 489-1 V1.1 (2008-11)  
 EN 301 489-2 V1.1 (2007-11)  
 EN 301 489-3 V1.1 (2007-11)  
 EN 301 489-4 V2.1 (2013-12)  
 EN 301 489-5 V1.1 (2008-11)  
 EN 301 489-6 V1.1 (2008-11)  
 EN 301 489-7 V2.2 (12012-09)  
 EN 301 489-8 V1.1 (2008-11)  
 EN 301 352-2 V1.4 (2008-11)  
 EN 301 883 V1.7 (12012-08)  
 EN 301 883 V1.5 (12010-02)  
 EN 302 324 V1.1 (2008-07)  
 EN 302 324 V1.1 (2008-07)  
 EN 50566:2013/A2:2014  
 EN 62311:2008  
 EN 62311:2008/A2:2014  
 EN 62311:2008

**LEP Directiva 2009/95/CE (hasta el 19 de abril de 2016) y Directiva 2014/34/UE (desde el 20 de abril de 2016)**

EN 60950-1:2009  
 EN 60950-1:2009/A2:2013  
 EN 60950-1:2009/AZ:2013

**Diseno Electromagnético – Directiva 2009/12/CE**

Regulation (EC) No. 1275/2008  
 Regulation (EC) No. 642/2009  
 Regulation (EU) No. 617/2013

**RoHS – Directiva 2011/65/UE**

**Marca CE**

**Sin embargo de lo anterior,**

 (marcado CE de conformidad)

**Firma** Taipei, Taiwan  
  
**Jerry Shen** Lugar de emisión  
**24/08/2016** Fecha de emisión

**Nombre Impreso** Taipei, Taiwan  
**Jerry Shen** Lugar de emisión  
**24/08/2016** Fecha de emisión

**CEO** 2016  
**Jerry Shen** el marcado CE por primera vez

**Posición** CEO  
**Jerry Shen** el marcado CE por primera vez

Vw: 100217

## DECLARATION UE DE CONFORMITE

Nous, soussignés

**Fabricant:** ASUS/TEK COMPUTER INC.  
**Adresse:** 4F, No. 150, LI-TE Rd., PEITOU, TAIPEI 112, TAIWAN  
**Représentant autorisé en Europe:** ASUS COMPUTER GmbH  
**Représentant autorisé en Espagne:** HAKKO/ S/ R/ Z/ S/ 4086/PAT/NGEN  
**Pays:** GERMANY

**Déclarons l'appareil suivant:**

**Nom de l'appareil:** Motherboard  
**Numéro du modèle:** EX-H110M-V

L'objet de la déclaration décrite ci-dessus est conforme avec la législation d'harmonisation de l'Union applicable

**Directive CEM 2014/53/UE (jusqu'au 19 avril 2016) et la directive 2014/53/UE (à partir du 20 avril 2016)**

EN 55033:2011  
 EN 55035:2011  
 EN 55033:2011/A1:2013  
 EN 55035:2011/A2:2006

**Directive RAITE 1993/68/CEE**

EN 300 338 V1.8 (1207-06)  
 EN 300 440-2 V1.4 (12013-08)  
 EN 301 488-3 V1.5 (2013-09)  
 EN 301 488-4 V2.1 (2013-12)  
 EN 301 489-1 V1.1 (2008-11)  
 EN 301 489-2 V1.1 (2007-11)  
 EN 301 489-3 V1.1 (2007-11)  
 EN 301 489-4 V2.1 (2013-12)  
 EN 301 489-5 V1.1 (2008-11)  
 EN 301 489-6 V1.1 (2008-11)  
 EN 301 489-7 V2.2 (12012-09)  
 EN 301 489-8 V1.1 (2008-11)  
 EN 301 352-2 V1.4 (2008-11)  
 EN 301 883 V1.7 (12012-08)  
 EN 301 883 V1.5 (12010-02)  
 EN 302 324 V1.1 (2008-07)  
 EN 302 324 V1.1 (2008-07)  
 EN 50566:2013/A2:2014  
 EN 62311:2008  
 EN 62311:2008/A2:2014  
 EN 62311:2008

**Directive LVD 2006/95/CE (jusqu'au 19 avril 2016) et la directive 2014/34/UE (à partir du 20 avril 2016)**

EN 60950-1:2009/A1:2011  
 EN 60950-1:2009/A2:2013  
 EN 60950-1:2009/AZ:2013

**Directive d'association 2009/12/CE**

Regulation (EC) No. 1275/2008  
 Regulation (EC) No. 642/2009  
 Regulation (EU) No. 617/2013

**Directive RoHS 2011/65/UE**

**Marquage CE**

**Équipement de classe I**

 (Marquage UE de conformité)

**Signature** Taipei, Taiwan  
  
**Jerry Shen** Lieu de délivrance  
**24/08/2016** Date d'émission

**Num en caractères d'imprimerie** Taipei, Taiwan  
**Jerry Shen** Lieu de délivrance  
**24/08/2016** Date d'émission

**CEO** 2016  
**Jerry Shen** l'opposition du marquage CE

**Position** CEO  
**Jerry Shen** l'opposition du marquage CE

Vw: 100217

**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 :** EX-H1 10M-V

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

A handwritten signature in blue ink that reads "Steve Chang". The signature is written in a cursive style and is placed over a light blue rectangular background.

Signature :

Date : Aug. 24, 2016

Ver. 140331