



# Asus PRIME H610M-D Instruction Manual



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## Summary of Contents for Asus PRIME H610M-D

[Page 1](#) PRIME H610M-D...

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

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Processing Unit (CPU) .....1-8 System memory .....1-10...

## [Page 4: Safety Information](#)

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.

## [Page 5: About This Guide](#)

Refer to the following sources for additional information and for product and software updates. ASUS website The ASUS website (www.asus.com) provides updated information on ASUS hardware and software products. Optional documentation Your product package may include optional documentation, such as warranty flyers, that may have been added by your dealer.

## [Page 6: Package Contents](#)

Supports Intel Turbo Boost Technology 2.0 and Intel Turbo Boost Max <sup>®</sup> <sup>®</sup> Technology 3.0\*\* \* Refer to www.asus.com for CPU support list. \*\* Intel Turbo Boost Max Technology 3.0 support depends on the CPU types. <sup>®</sup> Chipset Intel H610 Chipset <sup>®</sup>...

[Page 7](#) PRIME H610M-D specifications summary Realtek 7.1 Surround Sound High Definition Audio CODEC\* - Supports: Jack-detection, Multi-streaming, Front Panel Jack-retasking - Supports up to 24-Bit/192 kHz playback Audio Features Audio - Audio Shielding - Premium audio capacitors - Dedicated audio PCB layers \* A chassis with an HD audio module in the front panel is required to support 7.1...

[Page 8](#) Form Factor 9.2 inch x 8.0 inch (23.4 cm x 20.3 cm) • Specifications are subject to change without notice. Please refer to the ASUS website for the latest specifications. • For more information on downloading and installing drivers and utilities for your...

## [Page 9: Chapter 1: Product Introduction](#)

• The pin definitions in this chapter are for reference only. The pin names depend on the location of the header/jumper/connector. • For more information on installing your motherboard, please scan the code below: PRIME H610M-D...

## [Page 10: Motherboard Layout](#)

Motherboard layout 20.3cm(8.0in) CPU\_FAN KBMS\_USB\_56 ATX\_12V DIGI+ HDMI LGA1700 U32G1\_34 LAN\_USB\_78 AUDIO 2280 2260 2242 PCIEX16(G4) Ethernet Super Intel <sup>®</sup> Audio H610 Codec PCIEX1(G3) 128Mb BIOS SPEAKER USB\_914 SATA6G\_1 SATA6G\_2 SATA6G\_3 AAFP F\_PANEL COM\_DEBUG CLRTC Unplug the power cord before installing or removing the motherboard. Failure to do so can cause you physical injury and damage motherboard components.

[Page 11](#) USB 2.0 port. The USB 2.0 header provides data transfer speeds of up to 480 Mb/s. PIN 1 DO NOT connect a 1394 cable to the USB connectors. Doing so will damage the motherboard! The USB 2.0 module is purchased separately. PRIME H610M-D...

[Page 12](#) 10. RGB header The RGB header allows you to connect RGB LED strips. The RGB header supports 5050 RGB multi-color LED strips (12V/G/R/B), with a maximum power rating of 3A (12V), and no longer than 3m. 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.

[Page 13](#) (depending on the operating system settings). • Reset button header (RESET) The 2-pin header allows you to connect the chassis-mounted reset button. Press the reset button to reboot the system. PRIME H610M-D...

[Page 14](#) 1.2.2 Rear panel connectors PS/2 Keyboard/Mouse combo port. This port is for a PS/2 keyboard or mouse. COM port. This port is for a pointing device or other serial devices. 1Gb Ethernet port. This port allows Gigabit connection to a Local Area Network (LAN) through a network hub.

[Page 15](#) Center / (Rear panel) Subwoofer Subwoofer Lime Side Speaker Out (Front panel) Pink

(Front panel) 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. PRIME H610M-D...

### [Page 16: Central Processing Unit \(Cpu\)](#)

CPU designed for LGA1155, LGA1156, LGA1151, and LGA1200 sockets on the LGA1700 socket.  
• ASUS will not cover damages resulting from incorrect CPU installation/removal, incorrect CPU orientation/placement, or other damages resulting from negligence by the user. Installing the CPU...

### [Page 17](#) PRIME H610M-D...

### [Page 18: System Memory](#)

Supported memory types, data rate (speed), and number of DRAM modules vary depending on the CPU and memory configuration, for more information please refer to CPU/Memory Support list under the Support tab of product information site or visit <https://www.asus.com/support/>. Recommended memory configurations DIMM\_A...

### [Page 19](#) Installing a DIMM To remove a DIMM PRIME H610M-D 1-11...

### [Page 20](#) 1-12 Chapter 1: Product Introduction...

### [Page 21: Chapter 2: Bios Information](#)

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

### [Page 22: Bios Setup Program](#)

BIOS Setup program Use the BIOS Setup to update the BIOS or configure its parameters. The BIOS screens include navigation keys and brief onscreen help to guide you in using the BIOS Setup program. Entering BIOS at startup To enter BIOS Setup at startup, press <Delete> or <F2> during the Power-On Self Test (POST).

### [Page 23: Asus Ez Flash 3](#)

ASUS EZ Flash 3 The ASUS EZ Flash 3 feature allows you to update the BIOS without using an OS-based utility. Ensure to load the BIOS default settings to ensure system compatibility and stability. Select the Load Optimized Defaults item under the Exit menu or press hotkey <F5>.

### [Page 24: Asus Crashfree Bios 3](#)

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

### [Page 25: Appendix](#)

Appendix Notices FCC Compliance Information Responsible Party: Asus Computer International Address: 48720 Kato Rd., Fremont, CA 94538, USA Phone / Fax No: (510)739-3777 / (510)608-4555 This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

[Page 26](#) France sorting and recycling information À DÉPOSER À DÉPOSER Cet appareil EN MAGASIN EN DÉCHÈTERIE et ses accessoires se recyclent Points de collecte sur [www.quefairedemesdechets.fr](http://www.quefairedemesdechets.fr) Privilégiez la réparation ou le don de votre appareil ! Compliance Statement of Innovation, Science and Economic Development Canada (ISED) This device complies with Innovation, Science and Economic Development Canada licence exempt RSS standard(s).

[Page 27](#) ASUS products sold in Vietnam, on or after September 23, 2011, meet the requirements of the Vietnam Circular 30/2011/TT-BCT. Các sản phẩm ASUS bán tại Việt Nam,

vào ngày 23 tháng 9 năm 2011 trở về sau, đều phải đáp ứng các yêu cầu của Thông tư 30/2011/TT-BCT của Việt Nam.

[Page 28](#) 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](http://www.asus.com/support).

### [Page 29: Warranty](#)

• ASUS offers a voluntary manufacturer's Commercial Guarantee. • ASUS dragovoljno nudi komercijalno proizvođačko jamstvo. • ASUS reserves the right to interpret the provisions of the ASUS • ASUS zadržava prava na tumačenje odredbi ASUS komercijalnog Commercial Guarantee. jamstva. •...

[Page 30](#) • ASUS tilbyr som produsent en frivillig kommersiell garanti. • Bảo hành thương mại này của ASUS được cung cấp độc lập và ngoài • ASUS forbeholder seg retten til å tolke bestemmelsene i ASUS sin Bảo đảm pháp lý theo luật định và không có cách nào ảnh hưởng đến kommersielle garanti.

### [Page 31: Asus Contact Information](#)

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