



Asus PRIME H610M-A WIFI D4 Manual

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Summary of Contents for Asus PRIME H610M-A WIFI D4

[Page 1](#) PRIME H610M-A WIFI D4...

[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

[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](#)

Package contents Check your motherboard package for the following items. Motherboard 1 x PRIME H610M-A WIFI D4 motherboard Cables 2 x SATA 6Gb/s cables 1 x ASUS Wi-Fi moving antennas Miscellaneous 1 x I/O Shield 1 x M.2 SSD screw package...

[Page 7](#) PRIME H610M-A WIFI D4 specifications summary Ethernet 1 x Intel 1Gb Ethernet ® Wi-Fi 5 Wi-Fi 5 (802.11 a/b/g/n/ac) Wireless & Bluetooth Supports 2.4/5GHz frequency band Bluetooth v5.0 Rear USB (Total 6 ports) 2 x USB 3.2 Gen 2 ports (2 x Type-A) 4 x USB 2.0 ports (4 x Type-A)

[Page 8](#) PRIME H610M-A WIFI D4 specifications summary Miscellaneous 3 x Addressable Gen 2 headers 2 x Aura RGB headers 1 x Clear CMOS header 1 x Front Panel Audio header (AAFP) Internal I/O Connectors 1 x COM Port header 1 x S/PDIF Out header...

[Page 9](#) Form Factor 9.6 inch x 8.3 inch (24.4 cm x 21.1 cm) • Specifications are subject to change without notice. Please refer to the ASUS website for the latest specifications. • MyASUS offers a variety of support features such as helping to troubleshoot issues, optimizing product performance, integrating ASUS software, and recovery drive creation.

[Page 11: Chapter 1: Product Introduction](#)

Unplug the power cord before installing or removing the motherboard. Failure to do so can cause you physical injury and damage motherboard components. The pin definitions in this chapter are for reference only. The pin names depend on the location of the header/jumper/connector. ASUS PRIME H610M-A WIFI D4...

[Page 12](#) 1.2.1 Layout contents 1. CPU socket The motherboard comes with an Intel Socket LGA1700 for 12 Gen Intel Core™, Pentium®®® Gold and Celeron Processors.® For more details, refer to Central Processing Unit (CPU). 2. DDR4 DIMM slots The motherboard comes with Dual Inline Memory Modules (DIMM) slots designed for DDR4 (Double Data Rate 4) memory modules.

[Page 13](#) 11. Aura RGB headers The RGB headers allow you to connect RGB LED strips. The RGB headers support 5050 RGB multi-color LED strips (12V/G/R/B), with a maximum power rating of 3A (12V), and no longer than 3m. ASUS PRIME H610M-A WIFI D4...

[Page 14](#) 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. •...

[Page 15](#) Serial Peripheral Interface (SPI), allowing you to securely store keys, digital certificates, passwords, and data. A TPM system also helps enhance PIN 1 network security, protects digital identities, and ensures platform integrity. The SPI TPM module is purchased separately. ASUS PRIME H610M-A WIFI D4...

[Page 16](#) GREEN 1 Gbps connection Ethernet port Wi-Fi ports. Connect the bundled ASUS Wi-Fi antenna connectors to these ports. Line In port (light blue). This port connects the tape, CD, DVD player, or other audio sources. Line Out port (lime). This port connects a headphone or a speaker. In 4-channel, 5.1-channel, and 7.1-channel configurations, the function of this port

becomes Front...

[Page 17](#) (Rear panel) Subwoofer Subwoofer Subwoofer Lime Side Speaker (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. ASUS PRIME H610M-A WIFI D4...

[Page 18: Central Processing Unit \(Cpu\)](#)

DO NOT install a 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.

[Page 19](#) ASUS PRIME H610M-A WIFI D4...

[Page 20: System Memory](#)

Check with the retailer to get the correct memory modules. • Actual memory data rate depends on the CPU types and DRAM modules, for more information refer to www.asus.com for the Memory QVL (Qualified Vendors Lists). Recommended memory configurations DIMM_A1...

[Page 21](#) Installing a DIMM To remove a DIMM ASUS PRIME H610M-A WIFI D4 1-11...

[Page 22](#) 1-12 Chapter 1: Product Introduction...

[Page 23: 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 24: 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 25: 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 26: 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 27: Appendix](#)

RF exposure compliance. HDMI Trademark Notice The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. ASUS PRIME H610M-A WIFI D4...

[Page 28](#) Compliance Statement of Innovation, Science and Economic Development Canada (ISED) This device complies with Innovation, Science and Economic Development Canada licence exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

[Page 29](#) Tenez cet appareil à distance du ventre des femmes enceintes et du bas-ventre des adolescents. ASUS PRIME H610M-A WIFI D4...

[Page 30](#) 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 31](#) ASUSTek Computer Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of The Radio Equipment Regulations 2017 (S.I. 2017/1206). Full text of UKCA declaration of conformity is available at <https://www.asus.com/support/>. The WiFi operating in the band 5150-5350MHz shall be restricted to indoor use for the country listed below:...

[Page 32](#) Pilns ES atbilstības paziņojuma teksts pieejams šeit: zahtjevima i ostalim odgovarajućim odredbama direktive 2014/53/EU. Cijeli <https://www.asus.com/support/>. tekst EU izjave o sukladnosti dostupan je na <https://www.asus.com/support/>. Wi-Fi darbība 5150-5350 MHz ir jāierobežo lietošanai telpās valstīs, kuras WiFi koji radi na opsegu frekvencija 5150-5350 MHz bit će ograničen na norādītas tālāk.

[Page 33](#) Direktive 2014/53/EU. Polno Function Frequency Maximum Output Power (EIRP) besedilo izjave EU o skladnosti je na voljo na <https://www.asus.com/support/>. WiFi, ki deluje v pasovnem območju 5150-5350 MHz, mora biti v državah, 2412 - 2472MHz 17.94 dBm...

[Page 34: 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 35](#) • 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 36: Asus Contact Information](#)

Address: 1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan ASUS COMPUTER INTERNATIONAL (America) Address: 48720 Kato Rd., Fremont, CA 94538, USA ASUS COMPUTER GmbH (Germany and Austria) Address: Harkortstrasse 21-23, 40880 Ratingen, Germany ASUSTeK (UK) LIMITED Address: 1st Floor, Sackville House, 143-149 Fenchurch Street, London, EC3M 6BL,...