



# Asus TUF GAMING H770-PRO WIFI Manual



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**TUF GAMING  
H770-PRO WIFI**



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## Related Manuals for Asus TUF GAMING H770-PRO WIFI

[Motherboard Asus TUF GAMING H770-PRO WIFI Quick Start Manual](#)

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[Motherboard Asus TUF GAMING H770-PRO WIFI Quick Start Manual](#)

(2 pages)

[Motherboard Asus PRIME H770-PLUS D4 Quick Start Manual](#)

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[Motherboard Asus PRIME H770-PLUS D4 Manual](#)

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[Motherboard Asus H81M-C User Manual](#)

H81m-c user's manual (74 pages)

[Motherboard ASUS H81T User Manual](#)

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[Motherboard Asus H110M-A Manual](#)

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[Motherboard Asus PRIME H610M-D Instruction Manual](#)

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[Motherboard Asus PRIME H510M-A R2.0 Manual](#)

(34 pages)

[Motherboard Asus H110M-C/HDMI Manual](#)

(27 pages)

## Summary of Contents for Asus TUF GAMING H770-PRO WIFI

[Page 1](#) TUF GAMING H770-PRO WIFI...

[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.

### [Page 3: Table Of Contents](#)

Contents Safety information ..... iv About this guide .....v Package contents ..... vi TUF GAMING H770-PRO WIFI specifications summary ..... vi Chapter 1: Product Introduction Before you proceed .....1-1 Motherboard overview ..... 1-2

Central Processing Unit (CPU) .....1-9 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 TUF GAMING H770-PRO WIFI motherboard Cables 2 x SATA 6Gb/s cables 1 x ASUS Wi-Fi moving antennas 2 x M.2 Rubber Packages Miscellaneous 2 x Screw packages for M.2 SSD...

[Page 7](#) TUF GAMING H770-PRO WIFI specifications summary Total supports 4 x M.2 slots and 4 x SATA 6Gb/s ports\* Intel & 12 Gen Processors ® M.2\_1 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode) Intel H770 Chipset ® M.2\_2 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode) Storage M.2\_3 slot (Key M), type 2242/2260/2280/22110...

[Page 8](#) TUF GAMING H770-PRO WIFI specifications summary Fan and Cooling related 1 x 4-pin CPU Fan header 1 x 4-pin CPU OPT Fan header 1 x 4-pin AIO Pump header 4 x 4-pin Chassis Fan headers Power related 1 x 24-pin Main Power connector...

[Page 9](#) TUF GAMING H770-PRO WIFI specifications summary Aura Sync Special Features - Aura RGB header - Addressable Gen 2 headers ASUS Exclusive Software Armoury Crate - Aura Creator - Aura Sync - Fan Xpert 4 - Two-Way AI Noise Cancelation - Power Saving...

[Page 10](#) • 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](#)

• 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 QR code below: TUF GAMING H770-PRO WIFI...

## [Page 12: Motherboard Overview](#)

Motherboard overview 24.4cm(9.6in) CPU\_OPT AIO\_PUMP CPU\_FAN ATX\_12V\_2 ATX\_12V\_1 HDMI\_DP DIGI+ U32G2X2\_C1 U32G1\_E34 U32G1\_E12 Place this LAN\_U32G2\_34 side towards LGA1700 the rear of the M.2(WIFI) chassis AUDIO Intel Ethernet 2242 2260 2280 PCIE SATA IRST 4.0 X4 M.2\_1(SOCKET3) PCIE16(G5) Intel ® H770 M.2\_2(SOCKET3) PCIE...

[Page 13](#) The system may become unstable or may not boot up if the power is inadequate. • If you want to use two high-end PCI Express x16 cards, use a PSU with 1000W power or above to ensure the system stability. TUF GAMING H770-PRO WIFI...

[Page 14](#) 6. M.2 slots (Key M) The M.2 slots allow you to install M.2 devices such as M.2 SSD modules. Intel & 12 Gen Processors • ® M.2\_1 slot supports PCIe 4.0 x4 mode M Key design and type 2242 / 2260 / 2280 storage devices.

[Page 15](#) Short-circuit pin 1-2 with a metal object or jumper cap for about 5-10 seconds. Plug the power cord and turn ON the computer. Hold down the <Del> key during the boot process and enter BIOS setup to re-enter data. TUF GAMING H770-PRO WIFI...

[Page 16](#) DO NOT short-circuit the pins except when clearing the RTC RAM. Short-circuiting or

placing a jumper cap will cause system boot failure! If the steps above do not help, remove the onboard button cell battery and short the two pins again to clear the CMOS RTC RAM data. After clearing the CMOS, reinstall the button cell battery.

[Page 17](#) The Q-LEDs provide the most probable cause of an error code as a starting point for troubleshooting. The actual cause may vary from case to case. 1.2.2 Rear panel connectors 12 13 TUF GAMING H770-PRO WIFI...

[Page 18](#) DisplayPort. This port is for a DisplayPort-compatible device. USB 3.2 Gen 1 (up to 5Gbps) ports. These Universal Serial Bus (USB) ports connect to USB 3.2 Gen 1 devices. Intel 2.5Gb Ethernet port. This port allows 2.5Gbps Ethernet connection to a Local ®...

### [Page 19: 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 Take caution when lifting the load lever, ensure to hold onto the load lever when releasing the load lever.

[Page 20](#) Ensure to remove the soft protection tube on the lever latch before locking the lever latch under the retention tab. Failure to do so may cause damages to your system when installing the cooling system. 1-10 Chapter 1: Product Introduction...

### [Page 21: System Memory](#)

(D/C) from the same vendor. Check with the retailer to get the correct memory modules. • Refer to [www.asus.com](http://www.asus.com) for the Memory QVL (Qualified Vendors Lists), and memory frequency support depends on the CPU types. Recommended memory configurations...

[Page 22](#) Installing a DIMM To remove a DIMM 1-12 Chapter 1: Product Introduction...

### [Page 23: Installation](#)

• The M.2 is purchased separately. When installing an M.2 to the M.2 slot, you may need to use the removable screw stand. Remove the screws from the heatsink. Remove the heatsink. TUF GAMING H770-PRO WIFI 1-13...

[Page 24](#) Install your M.2 to your M.2 slot. The steps may differ between installing M.2 of different lengths, please refer to the different types and their installation steps below: • To install an M.2 to M.2\_3 slot For 2280, 22110 length (optional) Remove the pre-installed removable M.2 Q-Latch screw at the 2280 length screw hole.

[Page 25](#) M.2 to. Rotate and adjust the M.2 Q-latch so that the handle points away from the M.2 slot. Install your M.2 to the M.2 slot. Rotate the M.2 Q-Latch clockwise to secure the M.2 in place. TUF GAMING H770-PRO WIFI 1-15...

[Page 26](#) • To install an M.2 to M.2\_1 and M.2\_4 slot For 2280 length (optional) Install the bundled M.2 rubber pad if you are installing a single sided M.2 storage device. DO NOT install the bundled M.2 rubber pads when installing a double-sided M.2 storage device. The rubber pad installed by default is compatible with double sided M.2 storage devices.

[Page 27](#) For 2280 length Rotate and adjust the M.2 Q-latch so that the handle points away from the M.2 slot. Install your M.2 to the M.2 slot. Rotate the M.2 Q-Latch clockwise to secure the M.2 in place. TUF GAMING H770-PRO WIFI 1-17...

[Page 28](#) For 2242, 2260 length Remove the pre-installed removable M.2 Q-Latch screw at the 2280 length screw hole. Install the M.2 Q-Latch to the M.2 length screw hole you wish to install your M.2 to. Rotate and adjust the M.2 Q-latch so that the handle points away from the M.2 slot.

### [Page 29: Wi-Fi Antennas Installation](#)

Wi-Fi antennas installation Installing the ASUS Wi-Fi antennas Connect the bundled ASUS Wi-Fi antennas connectors to the Wi-Fi ports at the back of the chassis. • Ensure that the ASUS Wi-Fi antennas are securely installed to the Wi-Fi ports. •...

[Page 30](#) 1-20 Chapter 1: Product Introduction...

### [Page 31: Chapter 2: Bios And Raid Support](#)

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 32: 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 33: 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 34: 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 35: Raid Configurations](#)

For more information on configuring your RAID sets, please refer to the RAID Configuration Guide which you can find at <https://www.asus.com/support>, or by scanning the QR code. RAID definitions RAID 0 (Data striping) optimizes two identical hard disk drives to read and write data in parallel, interleaved stacks.

[Page 36](#) Chapter 2: BIOS and RAID Support...

### [Page 37: 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 38](#) 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 39](#) Tenez cet appareil à distance du ventre des femmes enceintes et du bas-ventre des adolescents. TUF GAMING H770-PRO WIFI...

[Page 40](#) 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 41](#) 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: UKCA RF Output table (The Radio Equipment Regulations 2017) Intel®...



[Page 42](#) 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 43](#) 2014/53/EU 5150-5350MHz WiFi 5150-5350MHz <https://www.asus.com/support/>...

### [Page 44: 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 45](#) ASUS forbeholder seg retten til å tolke bestemmelsene i ASUS sin • Bảo hành thương mại này của ASUS được cung cấp độc lập và ngoài kommersielle garanti. Bảo đảm pháp lý theo luật định và không có cách nào ảnh hưởng đến hoặc giới hạn các quyền theo Bảo lãnh pháp lý.

### [Page 46: Asus Contact Information](#)

Address: 1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112 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,...