

# Asus TUF GAMING H470-PRO WI-FI Manual



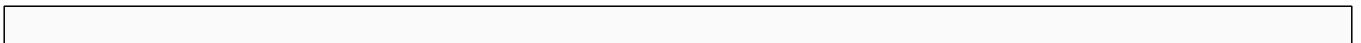
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18

19  
20



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[Next Page](#)

1  
2  
3  
4  
5

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## Summary of Contents for Asus TUF GAMING H470-PRO WI-FI

[Page 1](#) TUF GAMING H470-PRO (WI-FI)

[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](#) Turning off the computer ..... 2-18 Chapter 3: BIOS and RAID Support Knowing BIOS ..... 3-1 BIOS setup program ..... 3-2 ASUS EZ Flash 3 .....3-3 ASUS CrashFree BIOS 3 .....3-4 RAID configurations ..... 3-5 Appendix Notices

.....A-1...

[Page 4](#) 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](#) 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](#) Core™ i9/i7 CPUs support ® 2933/2800/2666/2400/2133 natively, others will run at the maximum transfer rate of DDR4 2666 MHz. \*\* Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists). 1 x DisplayPort 1.4\*\* 1 x HDMI 1.4b Graphics \* Graphics specifications may vary between CPU types.

[Page 7](#) 2 x USB 2.0 ports (2 x Type-A) 1 x DisplayPort 1 x HDMI port Back Panel I/O Ports 1 x ASUS Wi-Fi Module 1 x Intel I219-V 1Gb Ethernet port ® 5 x Audio jacks 1 x Optical S/PDIF out port...

[Page 8](#) 1 x 20-3 pin System Panel header with Chassis intrude function 1 x Thunderbolt header ASUS TUF PROTECTION - ASUS DIGI+ VRM (- Digital power design with Dr. MOS) - ASUS Enhanced DRAM Overcurrent Protection - ASUS ESD Guards - TUF LANGuard...

[Page 9](#) Windows 10 - 64 bit ® Operating System ATX Form Factor Form Factor 12 inch x 9.6 inch (30.5 cm x 24.4 cm) Specifications are subject to change without notice. Please refer to the ASUS website for the latest specifications.

[Page 10](#) Connectors with shared bandwidth RGB\_HEADER2 CPU\_OPT KBMS EATX12V \_USB910 DIGI+ CPU\_FAN 1442K HDMI U32G2\_C2 U32G2\_1 LGA1200 LAN\_U32G1\_78 BOOT CNVI(WIFI) DRAM Intel ® AUDIO CHA\_FAN1 AIO\_PUMP I219-V M.2\_1(SOCKET3) PCIE SATA IRST PCIEX1\_1 2280 2260 2242 USB3.2\_3 PCIEX16\_1 BATTERY Intel ® H470 PCIEX1\_2 Super PCIEX16\_2...

[Page 11](#) 2 x SATA 6Gb/s cables 1 x M.2 Rubber Package 1 x M.2 Screw Package Miscellaneous 1 x TUF GAMING sticker 1 x ASUS 2x2 dual band Wi-Fi moving antenna Installation Media 1 x Support DVD 1 x TUF Certification card Documentation 1 x User manual If any of the above items is damaged or missing, contact your retailer.

[Page 12](#) Installation tools and components Phillips (cross) screwdriver PC chassis Power supply unit Intel LGA 1200 CPU Intel LGA 1200 compatible CPU Fan ® ® DDR4 DIMM SATA hard disk drive SATA optical disc drive (optional) Graphics card (optional) M.2 SSD module (optional) 1 Bag of screws The tools and components in the table above are not included in the motherboard package.

[Page 13](#) Chapter 1: Product Introduction Product Introduction Before you proceed Take note of the following precautions before you install motherboard components or change any motherboard settings. • 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.

[Page 14](#) Motherboard layout 24.4cm(9.6in) RGB\_HEADER2 CPU\_OPT KBMS EATX12V \_USB910 DIGI+ CPU\_FAN 1442K HDMI U32G2\_C2 U32G2\_1 LGA1200 LAN\_U32G1\_78 BOOT CNVI(WIFI) DRAM Intel ® AUDIO I219-V CHA\_FAN1 AIO\_PUMP M.2\_1(SOCKET3) PCIE SATA IRST PCIEX1\_1 2280 2260 2242 USB3.2\_3 PCIEX16\_1 BATTERY Intel ® H470 PCIEX1\_2 Super PCIEX16\_2 PCIEX1\_3...

[Page 15](#) Layout contents Page 1. CPU socket 2. DIMM slots 3. Expansion slots 4. Fan and Pump headers 5. Power connectors 6. M.2 slots (SOCKET 3) 1-10 7. SATA 6Gb/s ports 1-11 8. USB 3.2 Gen 2 Front Panel connector 1-12 9.

[Page 16](#) Contact your retailer immediately if the PnP cap is missing, or if you see any damage to the PnP cap/socket contacts/motherboard components. ASUS will shoulder the cost of repair only if the damage is shipment/ transit-related.

[Page 17](#) DIMM slots The motherboard comes with Dual Inline Memory Modules (DIMM) slots designed for DDR4 (Double Data Rate 4) memory modules. A DDR4 memory 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. Recommended memory configurations TUF GAMING H470-PRO (WI-FI)

[Page 18](#) (D/C) from the same vendor. Check with the vendor to get the correct memory modules. • Visit the ASUS website for the latest QVL. Chapter 1: Product Introduction...

[Page 19](#) Expansion slots Unplug the power cord before adding or removing expansion cards. Failure to do so may cause you physical injury and damage motherboard components. PCIEX1\_1 PCIEX16\_1 PCIEX1\_2 PCIEX16\_2 PCIEX1\_3 PCIEX1\_4 Recommended VGA configuration Slot Description Single VGA Dual VGA PCIe 3.0 x16\_1 PCIe 3.0 x16\_2 •...

[Page 20](#) Fan and Pump headers The Fan and Pump headers allow you to connect fans or pumps to cool the system. CPU\_FAN CPU\_OPT CHA\_FAN1 AIO\_PUMP CHA\_FAN2 CHA\_FAN3 • DO NOT forget to connect the fan cables to the fan headers. Insufficient air flow inside the system may damage the motherboard components.