



Asus PRIME H770-PLUS D4 Manual

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Summary of Contents for Asus PRIME H770-PLUS D4

[Page 1](#) PRIME H770-PLUS 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)1-9 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](#)

Supports Intel Turbo Boost Technology 2.0 and Intel Turbo Boost Max [®] [®] 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. [®] Intel H770 Chipset Chipset [®]...

[Page 7](#) PRIME H770-PLUS D4 specifications summary Total supports 3 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 2242/2260/2280/22110 (supports PCIe 4.0 x4...

[Page 8](#) PRIME H770-PLUS D4 specifications summary Fan and Cooling related 1 x 4-pin CPU Fan header 1 x 4-pin AIO Pump header 3 x 4-pin Chassis Fan headers Power related 1 x 24-pin Main Power connector 1 x 8-pin +12V Power connector Storage related 3 x M.2 slots (Key M)

[Page 9](#) Operating System Windows 11, Windows 10 64-bit [®] [®] 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. Refer to the ASUS website for the latest specifications.

[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: PRIME H770-PLUS D4...

[Page 12: Motherboard Overview](#)

Motherboard overview 24.4cm(9.6in) CPU_FAN AIO_PUMP HDMI ATX_12V DIGI+ U2_1213 Place this U32G1_78 side towards the rear of the U32G1_9 U32G2_C1 chassis LGA1700 LAN_U32G2_34 M.2(WIFI) AUDIO 2242 2260 2280 M.2_1(SOCKET3) PCIEX1(G3)_1 PCIE SATA IRST 4.0 X4 PCIEX16(G5) Ethernet Intel [®] H770 BATTERY PCIEX1(G3)_2 Super...

[Page 13](#) 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 2242/2260/2280/22110 (supports PCIe 4.0 x4 mode) M.2_3 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 & SATA modes) PRIME H770-PLUS D4...

[Page 14](#) 7. SATA 6Gb/s ports The SATA 6Gb/s ports allow you to connect SATA devices such as optical disc drives and hard disk drives via SATA cables. 8. USB 3.2 Gen 1 headers The USB 3.2 Gen 1 headers allow you to connect USB 3.2 Gen 1 PIN 1 USB3+5V modules for additional USB 3.2 Gen 1 ports.

[Page 15](#) HD-audio-compliant pin definition 15. S/PDIF Out header SPDIF_OUT The S/PDIF Out header allows you to connect the Sony/Philips Digital Interface (S/PDIF) Out module. The S/PDIF module is purchased separately. PRIME H770-PLUS D4...

[Page 16](#) 16. SPI TPM header This header supports a Trusted Platform Module (TPM) PIN 1 VCCSPI S_SPI_TPM_IRQ# system with a Serial Peripheral Interface (SPI), allowing you S_PLTRST# S_SPI_TPM_CS2# F2_SPI_CS1#_R TPM_DETECT_L to securely store keys, digital certificates, passwords, and +3V_SPI F_SPI_CS0#_R T_SPI_CLK data.

[Page 17](#) (USB 3.2) port is for USB 3.2 Gen 2 Type-C devices. ® USB 3.2 Gen 2 (up to 10Gbps) ports (teal blue, Type A). These Universal Serial Bus 3.2 (USB 3.2) ports are for USB 3.2 Gen 2 devices. PRIME H770-PLUS D4...

[Page 18](#) Vertical M.2 slot (Key E). The vertical M.2 slot (Key E) allows you to install an M.2 Wi-Fi module. The M.2 Wi-Fi module is purchased separately. Microphone port (pink). This port connects a microphone. Refer to the audio configuration table below for the function of the audio ports in 2, 4, 5.1, or 7.1-channel configuration.

[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...

[Page 20](#) 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 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](#)

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.

- The diagrams in this section is for reference only.
- The M.2 storage devices are purchased separately. PRIME H770-PLUS D4 1-13...

[Page 24](#) 1-14 Chapter 1: Product Introduction...

[Page 25: Chapter 2: Bios And Raid Support](#)

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 26: 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 27: 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 28: 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 29: 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 30](#) Chapter 2: BIOS and RAID Support...

[Page 31: 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 32](#) 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 33](#) 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 34](#) 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 Privilégiez la réparation ou le don de votre appareil ! Safety Precautions Accessories that came with this product have been designed and verified for the use in connection with this product.

[Page 35](#) 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.

[Page 36: 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 37](#) • 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 38: Asus Contact Information](#)

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