

Asus PRIME H510T2-CSM R2.0 Manual

```
Table Of Contents
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
```

18
19
20
21
22
23
24
25
26
27
28
29
30



Quick Links

- 1 Prime H510T2-Csm R2.0 Specifications Summary
- 2 Before You Proceed
- 3 Motherboard Overview

Download this manual



PRIME H510T2-CSM R2.0





Related Manuals for Asus PRIME H510T2-CSM R2.0

Motherboard Asus PRINE H570M-PLUS Manual

(36 pages)

Motherboard Asus PRIME H510M-A WIFI Quick Start Manual

(2 pages)

Motherboard Asus Prime H510M-A Manual

(34 pages)

Motherboard Asus Prime H510M User Manual

(34 pages)

Motherboard Asus PRIME H510M-A Quick Start Manual

(2 pages)

Motherboard Asus PRIME H510M-E Quick Start Manual

(2 pages)

Motherboard Asus PRIME H510M-E Manual

(32 pages)

Motherboard Asus PRIME H510M-R Manual

(30 pages)

Motherboard Asus PRIME H510M-F Quick Start Manual

(2 pages)

Motherboard Asus PRIME H510TS Manual

(30 pages)

Motherboard Asus PRIME H510M-A R2.0 Quick Start Manual

(2 pages)

Motherboard Asus PRIME H510M-A R2.0 Manual

(34 pages)

Motherboard Asus H61M-K User Manual

H61m-k user's manual (82 pages)

Motherboard ASUS H61M-PRO User Manual

(64 pages)

Motherboard Asus PRIME H610M-D D4 Manual

(32 pages)

Motherboard Asus PRIME H310-PLUS R2.0 Manual

(27 pages)

Summary of Contents for Asus PRIME H510T2-CSM R2.0

<u>Page 1</u> PRIME H510T2-CSM R2.0...

<u>Page 2</u> Product warranty or service will not be extended if: (1) the product is repaired, modified or altered, unless such repair, modification of 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 PRIME H510T2-CSM R2	2.0 specifications summary	vi Chapter 1: Product
Introduction Before you proceed	1-1 Motherboard overvi	ew 1-2 Central

Processing Unit (CPI)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

Turbo Boost Technology 2.0 and Intel Turbo Boost Max \$ \$ Technology 3.0** * CPU only supports up to 65W. * Refer to www.asus.com for CPU support list. ** Intel Turbo Boost Max Technology 3.0 support depends on the CPU types. \$ Chipset Intel H470 Chipset \$...

<u>Page 7</u> PRIME H510T2-CSM R2.0 specifications summary Realtek 7.1 Surround Sound High Definition Audio CODEC* - Supports: Jack-detection, Front Panel Jack-retasking Audio - Supports up to 24-Bit/192kHz playback * A chassis with an HD audio module in the front panel is required to support 7.1 Surround Sound audio output.

<u>Page 8</u> Form Factor 6.7 inch \times 6.7 inch \times 6.7 inch \times 17.0 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 H510T2-CSM R2.0...

Page 10: Motherboard Overview

Motherboard overview 17.0cm(6.7in) SPEAKER HDMI2 DC_PWR USB78 USB_910 SATA6G U32G1_56 F_PANEL ATX19V PANEL_SW HDD_PWR PWR_2PIN Super CPU_FAN HDMI1 DDR4 SO-DIMM_A (64bit, 260-pin module) 2280 DDR4 SO-DIMM_B (64bit, 260-pin module) 2260 U32G1_34 Intel ® H470 LGA1200 U32G2_12 M.2(SOCKET3) 128Mb BIOS MIC IN Ethernet LINE_OUT COM_DEBUG...

<u>Page 11</u> The USB 2.0 module is purchased separately. BATT_CON 9. Battery connector PIN 1 This connector is for the lithium CMOS battery. 10. Backlight Inverter Voltage Selection header BLKT_PWR_SEL Pins Setting 1-2 (Default) PIN 1 (Default) PRIME H510T2-CSM R2.0...

Page 12 11. Chassis intrusion header CHASSIS This header is for a chassis-mounted intrusion detection sensor or switch. Connect one end of the chassis intrusion sensor or switch cable to this header. The chassis intrusion sensor or switch sends a high-level signal to this header when a chassis component is removed or replaced.

<u>Page 13</u> 23. Stereo Speaker connector SPK_OUT The internal stereo speaker connector allows connection to an internal, low- PIN 1 power speaker for basic system sound capability. The subsystem is capable of driving both 4Ω 3W speakers at the same time. PRIME H510T2-CSM R2.0...

<u>Page 14</u> 24. 10-1 pin System Panel header F_PANEL This header supports several chassis-mounted functions. +PWR_LED- PWR_BTN • System power LED (2-pin +PWR_LED-) This 2-pin header is for the system power LED. Connect the chassis power LED cable to this header. The system power LED lights up when you turn on the system power, and blinks when the system is in PIN 1 sleep mode.

ACT/LINK SPEED Status Description Status Description 10 Mbps connection No link ORANGE 100 Mbps connection ORANGE Linked 1 Gbps connection GREEN BLINKING Data activity LAN port PRIME H510T2-CSM R2.0...

<u>Page 16</u> USB 3.2 Gen 2 (up to 10Gbps) ports. These Universal Serial Bus (USB) ports connect to USB 3.2 Gen 2 devices. Microphone port (pink). This port connects a microphone. Line Out port (lime). This port connects a headphone or a speaker. Refer to the audio configuration table for the function of the audio ports in 2, 4, 5.1, or 7.1-channel configuration.

Page 17: Central Processing Unit (Cpu)

PnP cap/socket contacts/motherboard components. • Keep the cap after installing the motherboard. ASUS will process Return Merchandise Authorization (RMA) requests only if the motherboard comes with the cap on the LGA1200 socket.

Page 18: System Memory

For system stability, use a more efficient memory cooling system to support a full memory load (2 DIMMs). • Refer to www.asus.com for the latest Memory QVL (Qualified Vendors List). Installing a DIMM To install a DIMM To remove a DIMM...

Page 19: Chapter 2: Bios Information

Chapter 2: BIOS Information BIOS Information ASUS Self-Recovering BIOS ASUS-exclusive BIOS protection technology automatically recovers the system's BIOS with a verified backup in the event of an update failure, preventing the need to replace or reinstall your hardware. • Ensures safe BIOS updates •...

Page 20: Bios Menu Screen

The BIOS setup screens shown in this section are for reference purposes only, and may not exactly match what you see on your screen. • Visit the ASUS website at www.asus.com to download the latest BIOS file for this motherboard. •...

Page 21: Exit Menu

<Esc>, a confirmation window appears. Select OK to discard changes and exit. Launch EFI Shell from USB drives This option allows you to attempt to launch the EFI Shell application (shellx64.efi) from one of the available USB devices. PRIME H510T2-CSM R2.0...

Page 22 Chapter 2: BIOS Information...

Page 23: 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.

<u>Page 24</u> 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 25 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 năm2011 trở về sau, đều phải đáp ứng các yêu cầu của Thông tư 30/2011/TT-BCT của Việt Nam.

<u>Page 26</u> ASUS Recycling/Takeback Services ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for you to be able to responsibly recycle our products, batteries, other components as well as the packaging materials.

Page 27 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 28: 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 29 • 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 30: 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,...