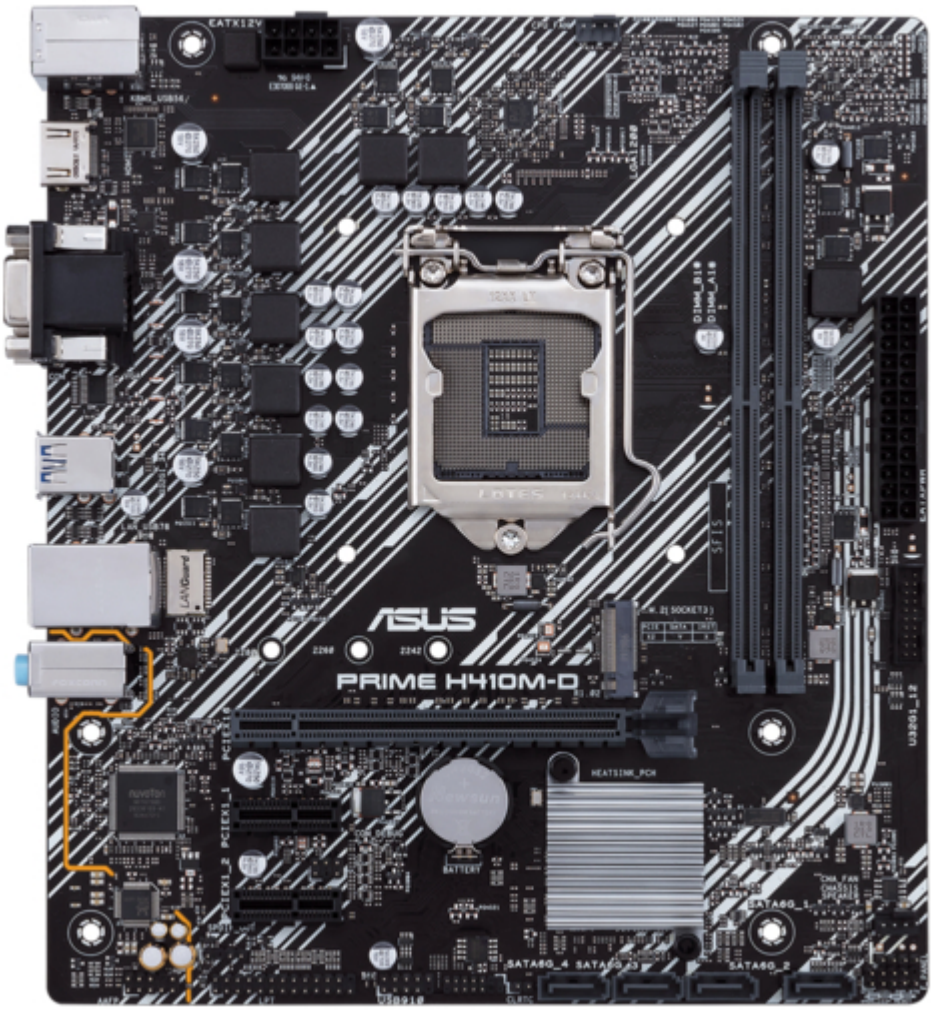
ASUS
PRIME H410M-D

Asus PRIME H410M-D Manual

1
2
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

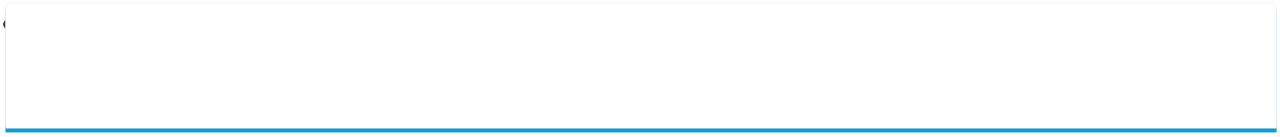

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Table of Contents

Bookmarks

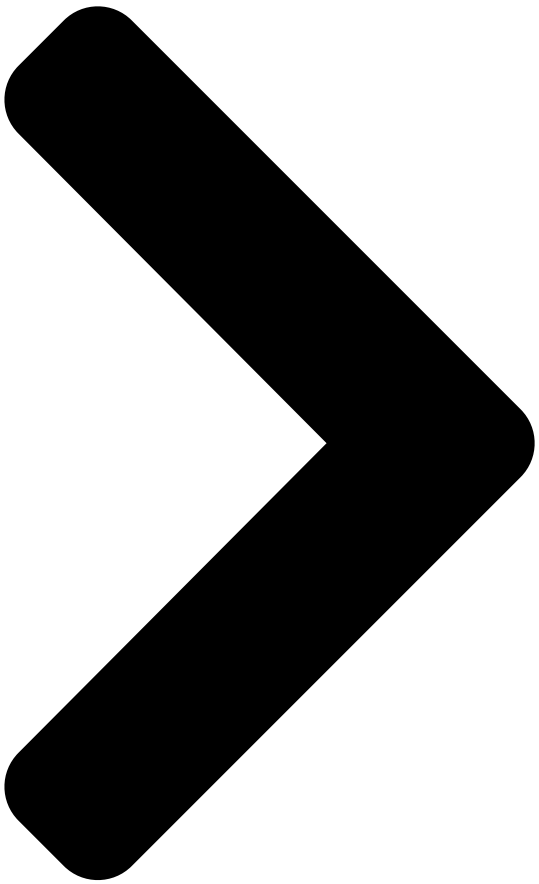
Quick Links

1 Prime H410M-D Specifications Summary

2 Motherboard Overview

3 Bios Setup Program

Download this manual



PRIME H410M-D

Table of Contents

Next Page

1
2
3
4
5

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Motherboard Asus PRIME H410M-ACSM Manual

(28 pages)

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(28 pages)

Motherboard Asus Prime H410M-R User Manual

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Motherboard Asus 90MB13H0-M0EAYC Manual

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(2 pages)

Motherboard Asus PRIME H410I-PLUS Manual

(30 pages)

Motherboard Asus PRIME H410M-K Quick Start Manual

(2 pages)

Motherboard Asus PRIME H410M-K Manual

(28 pages)

Motherboard Asus Pro H410T Manual

(28 pages)

Motherboard Asus TUF GAMING H470-PRO Manual

(62 pages)

Motherboard Asus Prime H470M-PLUS Manual

(32 pages)

Summary of Contents for Asus PRIME H410M-D

Page 1

PRIME H410M-D...

Page 2

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 H410M-D specifications summary ..... vi Chapter 1 Product introduction Before you proceed .....1-1 Motherboard overview ..... 1-1 Central

Processing Unit (CPU) .....1-7 System memory ..... 1-8...

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 provides updated information on ASUS hardware and software products. Refer to the ASUS contact information. 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

* For 10 Gen Intel® processors, only Core™ i9/i7 CPUs support 2933/2800/2666/2400/2133 natively, others run at the maximum transfer rate of DDR4 2666MHz. Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists). 1 x D-Sub Graphics 1 x HDMI * Graphics specifications may vary between CPU types.

Page 7

PRIME H410M-D specifications summary Rear USB (Total 6 ports) 2 x USB 3.2 Gen 1 ports (2 x Type-A) 4 x USB 2.0 ports (4 x Type-A) Front USB (Total 4 ports) 1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports 1 x USB 2.0 header supports additional 2 USB 2.0 ports...

Page 8

Norton Anti-virus software (Free Trial for 60 days) WinRAR UEFI BIOS ASUS EZ DIY - ASUS CrashFree BIOS 3 - ASUS EZ Flash 3 - ASUS UEFI BIOS EZ Mode BIOS 128 Mb Flash ROM, UEFI AMI BIOS Manageability WOL by PME, PXE Operating System...

Page 9: Before You Proceed

AUDIO 2280 2260 2242 Realtek 8111H PCIEX16 Super PCIEX1_1 Intel ® COM_DEBUG H410 PCIEX1_2 CHA_FAN 128Mb BIOS SPEAKER SATA6G_4 SATA6G_3 SATA6G_2 SATA6G_1 AAFP USB910 CLRTC F_PANEL 11 13 Unplug the power cord before installing or removing the motherboard. Failure to do so can cause you physical injury and damage motherboard components. ASUS PRIME H410M-D...

Page 10

1.2.1 Layout contents 1. CPU socket The motherboard comes with a surface mount Intel Socket LGA1200 designed for 10 ® 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 11

CLRTC setup information such as date, time, and system passwords. To erase the RTC RAM: Turn OFF the computer and unplug the power cord. 2. Use a metal object such as a screwdriver to short the two pins. PIN 1 3. 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. If the steps above do not help, remove the onboard battery and short the two pins again to clear the CMOS RTC RAM data. After clearing the CMOS, reinstall the battery. 11. Front panel audio header This header is for a chassis-mounted front panel audio I/O module that supports HD audio standard. Connect one end of the front panel audio I/O module cable to this header. ASUS PRIME H410M-D...

Page 12

• We recommend that you connect a high-definition front panel audio module to this header to avail of the motherboard's high- definition audio capability. • If you want to connect a high-definition front panel audio module to this header, set the Front Panel Type item in the BIOS setup AAFP to [HD Audio]. By default, this header is set to [HD Audio]. HD-audio-compliant pin definition 12. LPT header The LPT (Line Printing Terminal) header supports devices such as a printer. LPT standardizes as IEEE 1284, which is the parallel port interface on IBM PC-compatible computers. PIN 1 13. S/PDIF Out header This header is for an additional Sony/Philips Digital Interface (S/PDIF) port. Connect the S/PDIF Out module cable to this header, then install the module to a slot opening at the back of the system chassis. SPDIF_OUT SPEAKER 14. Speaker

header The 4-pin header is for the chassis-mounted system warning speaker.

Page 13 GREEN 1Gbps connection Orange (Blinking Ready to wake Ethernet port then steady) up from S5 mode 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 Speaker Out. USB 2.0 ports. These 4-pin Universal Serial Bus (USB) ports are for USB 2.0 devices. HDMI port. This port is for a High-Definition Multimedia Interface (HDMI) connector, and is HDCP compliant allowing playback of HD DVD, Blu-ray, and other protected content. Serial port (COM). This port connects a modem, or other devices that conform with serial specification. ASUS PRIME H410M-D...

Page 14 USB 3.2 Gen 1 (up to 5Gbps) ports. These 9-pin Universal Serial Bus (USB) ports connect to USB 3.2 Gen 1 devices. Microphone port (pink). This port connects a microphone. Refer to the audio configuration table on the next page for the function of the audio ports in 2, 4, 5.1, or 7.1-channel configuration. Audio 2, 4, 5.1 or 7.1-channel configuration Headset 4-channel Port 5.1-channel 7.1-channel 2-channel Light Blue Line In Rear Speaker Out Rear Speaker Out Rear Speaker Out (Rear panel) Lime (Rear panel) Line Out Front Speaker Out Front Speaker Out Front Speaker Out...

Page 15: Central Processing Unit (Cpu)

Gen Intel Core™, Pentium Gold and Celeron ® ® ® Processors. Unplug all power cables before installing the CPU. • Ensure that you install the correct CPU designed for the LGA1200 socket only. DO NOT install a CPU designed for LGA1150, LGA1151, LGA1155 and LGA1156 sockets on the LGA1200 socket. • Upon purchase of the motherboard, ensure that the PnP cap is on the socket and the socket contacts are not bent. Contact your retailer immediately if the PnP cap is missing, or if you see any damage to the 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. • The product warranty does not cover damage to the socket contacts resulting from incorrect CPU installation/removal, or misplacement/loss/incorrect removal of the PnP cap. Installing the CPU Apply the Thermal Interface Material to the CPU heatsink and CPU before you install the heatsink and fan if necessary. ASUS PRIME H410M-D...

Page 16: System Memory

DIMM_B1* • You may install varying memory sizes in Channel A and Channel B. The system maps the total size of the lower-sized channel for the dual-channel configuration. Any excess memory from the higher-sized channel is then mapped for single-channel operation. • Always install DIMMs with the same CAS latency. For optimal compatibility, we recommend that you install memory modules of the same version or date code (D/C) from the same vendor. Check with the retailer to get the correct memory modules. • For 10 Gen Intel processors, only Core™ i9/i7 CPUs support ® 2933/2800/2666/2400/2133 natively, others will run at the maximum transfer rate of DDR4 2666MHz. • The default memory operation frequency is dependent on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module. Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value. • 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). Recommended memory configurations DIMM_B1* DIMM_B1* DIMM_A1* DIMM_A1* Chapter 1: Product introduction...

Page 17 Installing a DIMM To remove a DIMM ASUS PRIME H410M-D...

Page 18 1-10 Chapter 1: Product introduction...

Page 19: 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 20: Bios Setup Program

BIOS setup program Use the BIOS Setup to update the BIOS or configure its parameters. The BIOS screen 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 21: 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 22: Asus Crashfree Bios 3

The BIOS file in the motherboard support DVD may be older than the BIOS file published on the ASUS official website. If you want to use the newer BIOS file, download the file at https://www.asus.com/support/ and save it to a USB flash drive.

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.

Page 24 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.

Page 26 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 Директив. Повний текст декларації відповідності стандартам ЄС доступний s bitnim zahtjevima i ostalim odgovarajućim odredbama vezanih direktiva. на: www.asus.com/support Cijeli tekst EU izjave o sukladnosti dostupan je na: www.asus.com/support Türkçe AsusTek Computer Inc., bu aygıtın temel gereksinimlerle ve ilişkili Čeština Společnost ASUSTeK Computer Inc. tímto prohlašuje, že Yönergelerin diğer ilgili koşullarıyla uyumlu olduğunu beyan eder.

Page 28: Asus Contact Information

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