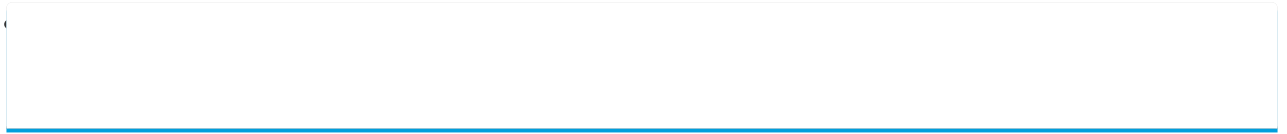




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User manual (112 pages)

[Motherboard Asus SABERTOOTH Z77 User Manual](#)

Intel z77 express chipset (178 pages)

Summary of Contents for Asus EX-B460M-V5

[Page 1](#) EX-B460M-V5...

[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 guidev Package contents vi EX-B460M-V5 specifications summaryvi Chapter 1 Product introduction Before you proceed1-1 Motherboard overview 1-1 Central

Processing Unit (CPU)1-6 System memory 1-7...

[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 websites 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](#)

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. * Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists). 1 x D-Sub Graphics 1 x HDMI 1.4b...

[Page 7](#) EX-B460M-V5 specifications summary 1 x Realtek RTL8111H 1Gb Ethernet Ethernet Rear USB (Total 6 ports) 4 x USB 3.2 Gen 1 ports (4 x Type-A) 2 x USB 2.0 ports (2 x Type-A) Front USB (Total 6 ports) 1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports 2 x USB 2.0 headers support additional 4 USB 2.0 ports...

[Page 8](#) ASUS 5X PROTECTION III - ASUS DIGI+ VRM - ASUS LANGuard - ASUS Overvoltage Protection Special Features - ASUS SafeSlot Core+ - ASUS Stainless-Steel Back I/O Non-stop challenger - ASUS iCafe labs certified ASUS Q-Design - ASUS Q-DIMM - ASUS Q-Slot...

[Page 9: Before You Proceed](#)

COM_DEBUG B460 PCIEX1_2 128Mb BIOS SATA6G_4 SATA6G_3 SATA6G_2 AAFP SATA6G_1 SPEAKER USB910 USB1112 CLRTC F_PANEL Unplug the power cord before installing or removing the motherboard. Failure to do so can cause you physical injury and damage motherboard components. ASUS EX-B460M-V5...

[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.

[Page 11](#) 12. 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 ASUS EX-B460M-V5...

[Page 12](#) 13. Speaker header SPEAKER The 4-pin header is for the chassis-mounted system warning speaker. The speaker allows you hear system beeps and warnings. PIN 1 14. 10-1 pin System Panel header This header supports several chassis-mounted functions. F_PANEL • System power LED (2-pin +PWR_LED-) +PWR_LED- PWR_BTN This 2-pin header is for the system power LED.

[Page 13](#) Mic In Mic In Bass/Center Bass/Center Lime (Front panel) — — — Side Speaker Out To configure a 7.1-channel audio output: Use a chassis with HD audio module in the front panel to support a 7.1-channel audio output. ASUS EX-B460M-V5...

[Page 14: 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 15: 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).

Recommended memory configurations DIMM_B1* DIMM_B1* DIMM_A1*...

[Page 16](#) Installing a DIMM To remove a DIMM Chapter 1: Product introduction...

[Page 17: Chapter 2 Bios And Raid Support](#)

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 18: I-Cafe](#)

I-Cafe The items in this menu allows you to configure some quick settings for the I-Cafe feature. Realtek PXE Option ROM This item allows you to enable or disable the PXE OptionRom of the Realtek LAN controller. POST Delay Time This item appears only when you set Boot Logo Display to [Auto] and [Full Screen].

[Page 19: Main Menu](#)

Allows you to enable or disable the CSM status auto selection function. ASUS EZ Flash 3 Utility Allows you to run ASUS EZ Flash 3. Press [Enter] to launch the ASUS EZ Flash 3 screen. Internal CPU Power Management The subitems in this menu allow you to set the CPU ratio and features.

[Page 20: Advanced Menu](#)

Security The Security menu items allow you to change the system security settings. • If you have forgotten your BIOS password, erase the CMOS Real Time Clock (RTC) RAM to clear the BIOS password. See section Motherboard Overview for information on how to erase the RTC RAM.

[Page 21: Monitor Menu](#)

The items in this menu allow you to configure the advanced power management settings. HDD/SDD SMART Information This menu displays the SMART information of the connected devices. Monitor menu The Monitor menu displays the system temperature/power status, and allows you to change the fan settings. ASUS EX-B460M-V5...

[Page 22: Boot Menu](#)

CPU / CPU Package / MotherBoard Temperature The onboard hardware monitor automatically detects and displays the CPU, CPU package and motherboard temperatures. Select [Ignore] if you do not wish to display the detected temperatures. CPU Fan/ Chassis Fan Speed The onboard hardware monitor automatically detects and displays the CPU and chassis fan speeds in rotations per minute (RPM).

[Page 23](#) OS in Safe Mode, press <F8 > after POST (Windows 8 not supported). • To select the boot device during system startup, press <F8> when ASUS Logo appears. Boot Override These items display the available devices. The number of device items that appears on the screen depends on the number of devices installed in the system.

[Page 24: Exit Menu](#)

Exit menu The Exit menu items allow you to load the optimal default values for the BIOS items, and save or discard your changes to the BIOS items. Load Optimized Defaults This option allows you to load the default values for each of the parameters on the Setup menus.

[Page 25: 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 26](#) 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 27](#) 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 28](#) 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 29](#) 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 30: Asus Contact Information](#)

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