

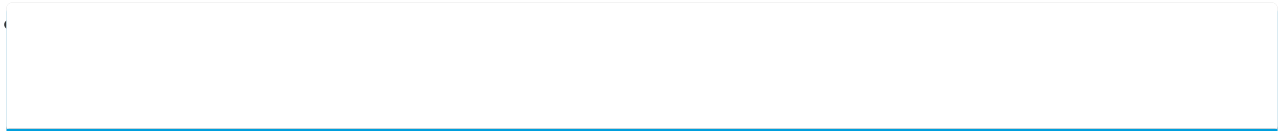
Asus P5B-MX - Motherboard - Micro ATX User Manual

P5b-mx user's manual

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**P5B-MX/
WiFi-AP**



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Related Manuals for Asus P5B-MX - Motherboard - Micro ATX

[Motherboard Asus P5B-MX - Motherboard - Micro ATX Guide D'installation](#)

Motherboard installation guide (92 pages)

[Motherboard Asus P5B-MX /WIFI-AP User Manual](#)

P5b-mx/wifi-ap english edition user's manual (94 pages)

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[Motherboard Asus P5BP-E/4L - Motherboard - ATX User Manual](#)

P5bv(p)-e series (187 pages)

[Motherboard Asus P5BV - Motherboard - ATX Installation Manual](#)

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[Motherboard Asus P5B-PLUS Installation Manual](#)

Motherboard installation guide (172 pages)

[Motherboard Asus P5B-PLUS User Manual](#)

P5b-plus series user's manual (172 pages)

Summary of Contents for Asus P5B-MX - Motherboard - Micro ATX

[Page 1](#) P5B-MX/ WiFi-AP...

[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](#)

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Technology (EIST)A-2 ®...

[Page 6: Notices](#)

Notices Federal Communications Commission Statement This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: • This device may not cause harmful interference, and • This device must accept any interference received including interference that may cause undesired operation.

[Page 7: 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.

[Page 8: 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 9: Conventions Used In This Guide](#)

Conventions used in this guide To make sure that you perform certain tasks properly, take note of the following symbols used throughout this manual. DANGER/WARNING: Information to prevent injury to yourself when trying to complete a task. CAUTION: Information to prevent damage to the components when trying to complete a task.

[Page 10: P5B-Mx/Wifi-Ap Specifications Summary](#)

Celeron D Processors ® Compatible with Intel 05B/05A/06 processors ® Intel Hyper-Threading Technology ready ® Refer to www.asus.com for Intel CPU support list Chipset Northbridge: Intel 946GZ ® Southbridge: Intel ICH7 ® System Bus 1066 / 800 / 533 MHz...

[Page 11](#) 1 x 4-pin ATX 12 V power connector System panel connector BIOS features 4 Mb Flash ROM, AMI BIOS, PnP, DMI, WfM2.0, SM BIOS 2.4, ACPI 2.0a, ASUS EZ Flash, ASUS CrashFree BIOS 2 Manageability WfM 2.0, DMI, WOL by PME, WOR by PME, PXE, RPL,...

[Page 13: Chapter 1: Product Introduction](#)

This chapter describes the motherboard features and the new technologies it supports. Product introduction...

[Page 14: Welcome](#)

Green ASUS This motherboard and its packaging comply with the European Union's Restriction on the use of Hazardous Substances (RoHS). This is in line with the ASUS vision of creating environment-friendly and recyclable products/packaging to safeguard consumers' health while

minimizing the impact on the environment.

[Page 15](#) S/PDIF digital sound ready The motherboard supports the S/PDIF-out (SONY-PHILIPS Digital Interface) function through the S/PDIF interface at mid-board. It allows to transfer digital audio without converting to analog format and keeps the best signal quality. See page 1-30 for details. ASUS P5B-MX/WiFi-AP...

[Page 16: Asus Special Features](#)

See page 2-31 for details. ASUS EZ Flash With the ASUS EZ Flash, you can easily update the system BIOS even before loading the operating system. No need to use a DOS-based utility or boot from a floppy disk.

[Page 17](#) PC is in sleep mode, so users can use Skype as a true replacement for tradition long distance telephone service. WiFi-AP Solo™ is an on-board feature, which means that users will save the extra WiFi-AP cost. (Refer to the ASUS Wi-Fi AP Solo™ user guide for details.) ASUS P5B-MX/WiFi-AP...

[Page 18: Before You Proceed](#)

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. • Use a grounded wrist strap or touch a safely grounded object or a metal object, such as the power supply case, before handling components to avoid damaging them due to static electricity.

[Page 19: Motherboard Overview](#)

Screw holes Place six (6) screws into the holes indicated by circles to secure the motherboard to the chassis. Do not overtighten the screws! Doing so can damage the motherboard. Place this side towards the rear of the chassis ASUS P5B-MX/WiFi-AP...

[Page 20: Motherboard Layout](#)

1.5.3 Motherboard layout 20.3cm (8in) CPU_FAN PS/2KBMS T : Mouse B: Keyboard Super I/O ATX12V LGA775 CHA_FAN USB12 LAN_USB34 Intel 82946GZ AUDIO ICS 9L PRS552 WIFI PCIEX1_1 CR2032 3V Lithium Cell Attansic CMOS Power PCIEX16 SB_PWR PCI1 Intel ICH7 CLRTC PCI2 ALC883 AAFP...

[Page 21: Layout Contents](#)

1-28 Line Out port (lime) 1-28 Microphone port (pink) 1-28 WiFi-g antenna jack 1-29 ASUS Wi-Fi AP Solo™ LED indicator 1-29 USB 2.0 ports 1 and 2 1-29 10. USB 2.0 ports 3 and 4 1-29 11. VGA port 1-29 12.

[Page 22: Central Processing Unit \(Cpu\)](#)

ASUS will shoulder the cost of repair only if the damage is shipment/transit-related. • 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 LGA775 socket.

[Page 23: Installing The Cpu](#)

This side of the socket box should face you. To prevent damage to the socket pins, do not remove the PnP cap unless you are installing a CPU. Lift the load lever in the direction of the arrow to a 135° angle. ASUS P5B-MX/WiFi-AP 1-11...

[Page 24](#) Lift the load plate with your thumb and forefinger to a 100° angle (A), then push the PnP cap from the load plate window to remove (B). Load plate Alignment key Position the CPU over the socket, making sure that the gold triangle is on the bottom-left corner of the socket then fit the socket...

[Page 25: Installing The Cpu Heatsink And Fan](#)

CPU fan connector. Motherboard hole Fastener Narrow end of the groove Make sure to orient each fastener with the narrow end of the groove pointing outward. (The photo shows the groove shaded for emphasis.) ASUS P5B-MX/WiFi-AP 1-13...

[Page 26](#) Push down two fasteners at a time in a diagonal sequence to secure the heatsink

and fan assembly in place. Connect the CPU fan cable to the connector on the motherboard labeled CPU_FAN. CPU_FAN CPU FAN PWM CPU FAN IN CPU FAN PWR P5B-MX/WiFi-AP CPU Fan Connector Do not forget to connect the CPU fan connector! Hardware monitoring errors...

[Page 27: Uninstalling The Cpu Heatsink And Fan](#)

Rotate each fastener counterclockwise. Pull up two fasteners at a time in a diagonal sequence to disengage the heatsink and fan assembly from the motherboard. Carefully remove the heatsink and fan assembly from the motherboard. ASUS P5B-MX/WiFi-AP 1-15...

[Page 28](#) Rotate each fastener clockwise to ensure correct orientation when reinstalling. Narrow end of the groove The narrow end of the groove should point outward after resetting. (The photo shows the groove shaded for emphasis.) Refer to the documentation in the boxed or stand-alone CPU fan package for detailed information on CPU fan installation.

[Page 29: System Memory](#)

Install a memory module in DIMM_A1 slot to support the Intel Quiet System ® Technology and for optimum performance. 1.7.2 Memory configurations You may install 256 MB, 512 MB, 1 GB, 2 GB and 4 GB unbuffered non-ECC DDR2 DIMMs into the DIMM sockets. ASUS P5B-MX/WiFi-AP 1-17...

[Page 30](#) DDR2-533 by default setting. If you want to operate with lower latency, adjust the memory timing manually. There will be 4MB reduction in total memory when enabling ASUS Thermostat function under Single Channel mode, and 8MB reduction under Dual Channel Mode.

[Page 31](#) 512MB GEIL GX21GB5300DC GEIT Heat-Sink Package • • 512MB TEAM TVDD512M667C5 TEAM T2D648MT-6 • • TEAM TVDD1.02M667C4 TEAM T2D648PT-6 • • 512MB Century CENTURY 512MB Nanya NT5TU64M8AE-3C • • 512MB Century CENTURY 512MB Hynix HY5PS12821AFP-Y5 • • ASUS P5B-MX/WiFi-AP 1-19...

[Page 32](#) DDR2 667 DIMM support Size Vendor Model Brand Side(s) Part No. Century CENTURY 1G Hynix HY5PS12821AFP-Y5 • • Century CENTURY 1G Nanya NT5TU64M8AE-3C • • 512MB Smart T3D2667C48S MTRI G64M8X84GT4X4AUUP 0629 • • Smart TB4D2667C58D Smart G64M8XBJMX4TUE 0623 • • 512MB KINGBOX 512MB 667MHz...

[Page 33](#) Visit the ASUS website (www.asus.com) for the latest QVL. Side(s): SS - Single-sided DS - Double-sided DIMM support: Supports one module inserted into any slot as Single-channel memory configuration. Supports one pair of modules inserted into the yellow slots as one pair of Dual-channel memory configuration.

[Page 34: Installing A Dimm](#)

1.7.3 Installing a DIMM Unplug the power supply before adding or removing DIMMs or other system components. Failure to do so can cause severe damage to both the motherboard and the components. To install a DIMM: DDR2 DIMM notch Unlock a DIMM socket by pressing the retaining clips outward.

[Page 35: Expansion Slots](#)

IRQ" or that the cards do not need IRQ assignments. Otherwise, conflicts will arise between the two PCI groups, making the system unstable and the card inoperable. Refer to the table on the next page for details. ASUS P5B-MX/WiFi-AP 1-23...

[Page 36: Interrupt Assignments](#)

1.8.3 Interrupt assignments Standard interrupt assignments Priority Standard Function System Timer Keyboard Controller — Re-direct to IRQ#9 Communications Port (COM1) IRQ holder for PCI steering* Standard Floppy Disk Controller Printer Port (LPT1) System CMOS/Real Time Clock IRQ holder for PCI steering* IRQ holder for PCI steering* IRQ holder for PCI steering* PS/2 Compatible Mouse Port...

[Page 37: Pci Slots](#)

PCI Express x1 slot. 1.8.6 PCI Express x16 slot This motherboard supports PCI Express x16 graphic cards that comply with the PCI Express specifications. The figure shows a graphics card installed on the PCI Express x16 slot. ASUS P5B-MX/WiFi-AP 1-25...

[Page 38: Jumpers](#)

Jumpers Clear RTC RAM (CLRRTC) This jumper allows you to clear the Real Time Clock (RTC) RAM in CMOS. You can clear the CMOS memory of date, time, and system setup parameters by erasing the CMOS RTC RAM data. The onboard button cell battery powers the RAM data in CMOS, which include system setup information such as system •words.

[Page 39](#) (the default is the Space Bar). This feature requires an ATX power supply that can supply at least 1A on the +5VSB lead, and a corresponding setting in the BIOS. KBPWR +5VSB (Default) P5B-MX/WiFi-AP Keyboard Power Setting ASUS P5B-MX/WiFi-AP 1-27...

[Page 40: 1.10 Connectors](#)

1.10 Connectors 1.10.1 Rear panel connectors PS/2 mouse port (green). This port is for a PS/2 mouse. Parallel port. This 25-pin port connects a parallel printer, a scanner, or other devices. LAN (RJ-45) port. Supported by Realtek Gigabit LAN controller, this port ®...

[Page 41](#) Connect the moveable omni-directional antenna to this jack. ASUS Wi-Fi AP Solo™ LED indicator. The ASUS Wi-Fi AP Solo™ comes with a green data transmission LED (AIR). For more information, refer to the ASUS Wi-Fi AP Solo™...

[Page 42: Internal Connectors](#)

1.10.2 Internal connectors Floppy disk drive connector (34-1 pin FLOPPY) This connector is for the provided floppy disk drive (FDD) signal cable. Insert one end of the cable to this connector, then connect the other end to the signal connector at the back of the floppy disk drive. Pin 5 on the connector is removed to prevent incorrect cable connection when using a FDD cable with a covered Pin 5.

[Page 43](#) IDE cable. • Use the 80-conductor IDE cable for Ultra DMA 100/66/33 IDE devices. If any device jumper is set as "Cable-Select," make sure all other device jumpers have the same setting. IDE Connector P5B-MX/WiFi-AP ASUS P5B-MX/WiFi-AP 1-31...

[Page 44](#) ICH7 Serial ATA connectors (7-pin SATA1, SATA2, SATA3, SATA4) These connectors are for the Serial ATA signal cables for Serial ATA hard disk drives. SATA1 SATA2 SATA3 SATA4 RSATA_RXP1 RSATA_RXP2 RSATA_RXP3 RSATA_RXP4 RSATA_RXN1 RSATA_RXN2 RSATA_RXN3 RSATA_RXN4 RSATA_TXN1 RSATA_TXN2 RSATA_TXN3 RSATA_TXN4 RSATA_TXP1 RSATA_TXP2 RSATA_TXP3...

[Page 45](#) The USB module is purchased separately. Optical drive audio connector (4-pin CD) These connectors allow you to receive stereo audio input from sound sources such as a CD-ROM, TV tuner, or MPEG card. (black) P5B-MX/WiFi-AP Internal Audio Connector ASUS P5B-MX/WiFi-AP 1-33...

[Page 46](#) Do not place jumper caps on the fan connectors! CPU_FAN CPU FAN PWM CPU FAN IN CPU FAN PWR CHA_FAN Rotation +12V P5B-MX/WiFi-AP Fan Connectors Only the CPU-FAN and CHA-FAN connectors support the ASUS Advanced Q-Fan feature. 1-34 Chapter 1: Product introduction...

[Page 47](#) P5B-MX/WiFi-AP Front Panel Audio Connector • We recommend that you connect a high-definition front panel audio module to this connector to avail of the motherboard's high-definition audio capability. • By default, this connector is set to HD Audio. ASUS P5B-MX/WiFi-AP 1-35...

[Page 48](#) 10. ATX power connectors (24-pin EATXPWR, 4-pin ATX12V) These connectors are for ATX power supply plugs. The power supply plugs are designed to fit these connectors in only one orientation. Find the proper orientation and push down firmly until the connectors completely fit. ATX12V EATXPWR +12V DC...

[Page 49: System Panel Connector](#)

BIOS settings. Pressing the power switch for more than four seconds while the system is ON turns the system OFF. • Reset button (2-pin RESET) This 2-pin connector is for the chassis-mounted reset button for system reboot without turning off the system power. ASUS P5B-MX/WiFi-AP 1-37...

[Page 50](#) 1-38 Chapter 1: Product introduction...

[Page 51: Chapter 2: Bios Setup](#)

This chapter tells how to change the system settings through the BIOS Setup menus. Detailed descriptions of the BIOS parameters are also provided. BIOS setup ASUS P5B-MX/WiFi-AP...

[Page 52: Managing And Updating Your Bios](#)

The following utilities allow you to manage and update the motherboard Basic Input/Output System (BIOS) setup. ASUS EZ Flash (Updates the BIOS in DOS mode using a floppy disk or the motherboard support CD.) ASUS AFUDOS (Updates the BIOS in DOS mode using a bootable floppy disk.)

[Page 53: Asus Ez Flash Utility](#)

2.1.2 ASUS EZ Flash utility The ASUS EZ Flash feature allows you to update the BIOS without having to go through the long process of booting from a floppy disk and using a DOS-based utility. The EZ Flash utility is built-in the BIOS chip so it is accessible by pressing <Alt>...

[Page 54: Afudos Utility](#)

Extension name Press <Enter>. The utility copies the current BIOS file to the floppy disk.
A:\>afudos /oOLDBIOS1.rom AMI Firmware Update Utility - Version 1.19(ASUS V2.07(03.11.24BB)) Copyright (C) 2002 American Megatrends, Inc. All rights reserved. Reading flash ..done Write to file..ok A:\>...

[Page 55](#) Updating the BIOS file To update the BIOS file using the AFUDOS utility: Visit the ASUS website (www.asus.com) and download the latest BIOS file for the motherboard. Save the BIOS file to a bootable floppy disk. Write the BIOS filename on a piece of paper. You need to type the exact BIOS filename at the DOS prompt.

[Page 56: Asus Crashfree Bios 2 Utility](#)

2.1.4 ASUS CrashFree BIOS 2 utility The ASUS CrashFree BIOS 2 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 update a corrupted BIOS file using the motherboard support CD or the floppy disk that contains the updated BIOS file.

[Page 57](#) Reading file "P5BMXWAP.ROM". Completed. Start flashing... Restart the system after the utility completes the updating process. The recovered BIOS may not be the latest BIOS version for this motherboard. Visit the ASUS website (www.asus.com) to download the latest BIOS file. ASUS P5B-MX/WiFi-AP...

[Page 58: Asus Update Utility](#)

2.1.5 ASUS Update utility The ASUS Update is a utility that allows you to manage, save, and update the motherboard BIOS in Windows environment. The ASUS Update utility allows you ® • Save the current BIOS file • Download the latest BIOS file from the Internet •...

[Page 59](#) To update the BIOS through the Internet: desktop by clicking Start Launch the ASUS Update utility from the Windows ® > Programs > ASUS > ASUSUpdate > ASUSUpdate. The ASUS Update main window appears. Select Update BIOS from Select the ASUS FTP site nearest...

[Page 60](#) To update the BIOS through a BIOS file: Launch the ASUS Update utility from the Windows desktop by clicking Start ® > Programs > ASUS > ASUSUpdate > ASUSUpdate. The ASUS Update main window appears. Select Update BIOS from a file option from the drop-down menu, then click Next.

[Page 61: Bios Setup Program](#)

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 (www.asus.com) to download the latest BIOS file for this motherboard. ASUS P5B-MX/WiFi-AP...

[Page 62: Bios Menu Screen](#)

2.2.1 BIOS menu screen Menu items Menu bar Configuration fields General help Use [ENTER], [TAB] System Time [18:25:08] System Date [Sun 01/06/2002] or [SHIFT-TAB] to Legacy Diskette A [1.44M, 3.5 in] select a field. Primary IDE Master :[Not Detected] Use [+] or [-] to Primary IDE Slave :[Not Detected] configure system time.

[Page 63: Menu Items](#)

[Enabled] Change Option General Help screen. MPS Revision [1.4] Save and Exit Exit 2.2.9 General help Pop-up window At the top right corner of the menu screen is Scroll bar a brief description of the selected item. ASUS P5B-MX/WiFi-AP 2-13...

[Page 64: Main Menu](#)

Main menu When you enter the BIOS Setup program, the Main menu screen appears, giving you an overview of the basic system information. Refer to section "2.2.1 BIOS menu screen" for information on the menu screen items and how to navigate through them. System Time [18:31:08] Use [ENTER], [TAB]...

[Page 65: Primary, Third, And Fourth Ide Master/Slave](#)

When set to [Disabled], the data transfer from and to the device occurs one sector at a time. Configuration options: [Disabled] [Auto] ASUS P5B-MX/WiFi-AP 2-15...

[Page 66: Ide Configuration](#)

PIO Mode [Auto] Selects the PIO mode. Configuration options: [Auto] [0] [1] [2] [3] [4] DMA Mode [Auto] Selects the DMA mode. Configuration options: [Auto] SMART Monitoring [Auto] Sets the Smart Monitoring, Analysis, and Reporting Technology. Configuration options: [Auto] [Disabled] [Enabled] 32Bit Data Transfer [Enabled] Enables or disables 32-bit data transfer.

[Page 67: System Information](#)

Build Date : 12/04/06 Processor Type : Genuine Intel(R) CPU 3.80GHz Speed : 3819MHz Count System Memory Usable Size: 256MB AMI BIOS Displays the auto-detected BIOS information. Processor Displays the auto-detected CPU specification. System Memory Displays the auto-detected system memory. ASUS P5B-MX/WiFi-AP 2-17...

[Page 68: Advanced Menu](#)

Advanced menu The Advanced menu items allow you to change the settings for the CPU and other system devices. Take caution when changing the settings of the Advanced menu items. Incorrect field values can cause the system to malfunction. JumperFree Configuration USB Configuration CPU Configuration Chipset...

[Page 69](#) DRAM Frequency [Auto] Allows you to set the DDR2 operating frequency. Configuration options: [Auto] [DDR2-533MHz] [DDR2-667MHz] Selecting a very high DRAM frequency may cause the system to become unstable! If this happens, revert to the default setting. ASUS P5B-MX/WiFi-AP 2-19...

[Page 70: Usb Configuration](#)

2.4.2 USB Configuration The items in this menu allows you to change the USB-related features. Select an item then press <Enter> to display the configuration options. USB Configuration Module Version - 2.24.0-11.4 USB Devices Enabled: None USB 2.0 Controller [Enabled] Legacy USB Support [Auto] Port 64/60 Emulation...

[Page 71: Cpu Configuration](#)

Enables or disables the enhanced state support. Configuration options: [Disabled] [Enabled] Hardware Prefetcher [Enabled] Enables or disables the Hardware Prefetcher feature. Configuration options: [Disabled] [Enabled] Adjacent Cache Line Prefetch [Enabled] Enables or disables the Adjacent Cache Line Prefetch feature. Configuration options: [Disabled] [Enabled] ASUS P5B-MX/WiFi-AP 2-21...

[Page 72: Chipset](#)

The following item appears only when you installed an Intel Pentium 4 or ® ® later CPU that supports the Enhanced Intel SpeedStep Technology (EIST). ® Max CPUID Value Limit [Disabled] Enable this item to boot legacy operating systems that cannot support CPUs with extended

CPUID functions.

[Page 73: North Bridge Configuration](#)

Video Function Configuration Video Function Configuration DVMT Mode Select [DVMT Mode] DVMT/FIXED Memory [128MB] DVMT Mode Select [DVMT Mode] Allows you to select the DVMT Mode. Configuration options: [Fixed Mode] [DVMT Mode] DVMT/FIXED Memory [128MB] Configuration options: [128MB] ASUS P5B-MX/WiFi-AP 2-23...

[Page 74: Onboard Devices Configuration](#)

South Bridge Configuration South Bridge chipset Configuration Audio Controller [Azalia] HD Audio Controller [Azalia] Allows you to set the audio controller. Configuration options: [Azalia] [All Disabled] 2.4.5 Onboard Devices Configuration Configure Win627DHG-A Super IO Chipset Onboard PCIE GbE LAN [Enabled] LAN Option ROM [Disabled] Serial Port1 Address...

[Page 75](#) ECP Mode DMA Channel [DMA3] Appears only when the Parallel Port Mode is set to [ECP]. This item allows you to set the Parallel Port ECP DMA. Configuration options: [DMA0] [DMA1] [DMA3] Parallel Port IRQ [IRQ7] Configuration options: [IRQ5] [IRQ7] ASUS P5B-MX/WiFi-AP 2-25...

[Page 76: Pci Pnp](#)

2.4.6 PCI PnP The PCI PnP menu items allow you to change the advanced settings for PCI/PnP devices. The menu includes setting IRQ and DMA channel resources for either PCI/PnP or legacy ISA devices, and setting the memory size block for legacy ISA devices.

[Page 77: Power Menu](#)

Allows you to enable or disable the Advanced Configuration and Power Interface (ACPI) support in the Application-Specific Integrated Circuit (ASIC). When set to Enabled, the ACPI APIC table pointer is included in the RSDT pointer list. Configuration options: [Disabled] [Enabled] ASUS P5B-MX/WiFi-AP 2-27...

[Page 78: Apm Configuration](#)

2.5.4 APM Configuration APM Configuration Power Button Mode [On/Off] Restore on AC Power Loss [Power Off] Power On By RTC Alarm [Disabled] Power On By External Modems [Disabled] Power On By PCI Devices [Disabled] Power On By PCIE Devices [Disabled] Power On By PS/2 Keyboard [Disabled] Power On By PS/2 Mouse...

[Page 79: Hardware Monitor](#)

(RPM). If the fan is not connected to the motherboard, the field shows N/A. Select Ignored if you do not wish to display the detected speed. CPU Q-Fan Control [Disabled] Allows you to enable or disable the Q-Fan control. Configuration options: [Disabled] [Enabled] ASUS P5B-MX/WiFi-AP 2-29...

[Page 80: Boot Menu](#)

Chassis Fan Speed [xxxxRPM] or [N/A] or [Ignored] The onboard hardware monitor automatically detects and displays the chassis fan speed in rotations per minute (RPM). If the fan is not connected to the chassis, the specific field shows N/A. Select Ignored if you do not wish to display the detected speed. VCORE Voltage, 3.3V Voltage, 5V Voltage, 12V Voltage The onboard hardware monitor automatically detects the voltage output through the onboard voltage regulators.

[Page 81: Boot Settings Configuration](#)

This allows you to enable or disable the full screen logo display feature. Configuration options: [Disabled] [Enabled] Set this item to [Enabled] to use the ASUS MyLogo2™ feature. Add On ROM Display Mode [Force BIOS] Sets the display mode for option ROM.

[Page 82: Security](#)

Hit 'DEL' Message Display [Enabled] When set to Enabled, the system displays the message "Press DEL to run Setup" during POST. Configuration options: [Disabled] [Enabled] Interrupt 19 Capture [Disabled] When set to [Enabled], this function allows the option ROMs to trap Interrupt 19. Configuration options: [Disabled] [Enabled] 2.6.3 Security...

[Page 83: Change User Password](#)

Password Check [Setup] When set to [Setup], BIOS checks for user password when accessing the Setup utility. When set to [Always], BIOS checks for user password both when accessing Setup and booting the system. Configuration options: [Setup] [Always] ASUS P5B-MX/WIFI-AP 2-33...

[Page 84: Exit Menu](#)

Exit menu The Exit menu items allow you to load the optimal or failsafe default values for the BIOS items, and save or discard your changes to the BIOS items. Exit Options Exit & Save Changes Exit & Discard Changes Discard Changes Load Setup Defaults Pressing <Esc>...

[Page 85: Chapter 3: Software Support](#)

This chapter describes the contents of the support CD that comes with the motherboard package. Software support ASUS P5B-MX/WIFI-AP...

[Page 86: Installing An Operating System](#)

The contents of the support CD are subject to change at any time without notice. Visit the ASUS website(www.asus.com) for updates. 3.2.1 Running the support CD Place the support CD to the optical drive. The CD automatically displays the Drivers menu if Autorun is enabled in your computer.

[Page 87: Drivers Menu](#)

Installs the Intel Graphics Accelerator driver. Realtek Audio Driver Installs the Realtek audio driver and application. Attansic L1 Gigabit Ethernet Driver Installs the Attansic L1 Gigabit Ethernet driver and application. ASUS WiFi-AP Solo Installs the WiFi-AP Solo™ driver and application. ASUS P5B-MX/WIFI-AP...

[Page 88: Utilities Menu](#)

This utility helps you keep your computer in healthy operating condition. ASUS Update The ASUS Update utility allows you to update the motherboard BIOS in Windows® environment. This utility requires an Internet connection either through a network or an Internet Service Provider (ISP) ADOBE Acrobat Reader V7.0...

[Page 89: Asus Contact Information](#)

3.2.4 ASUS Contact information Click the Contact tab to display the ASUS contact information. You can also find this information on the inside front cover of this user guide. ASUS P5B-MX/WIFI-AP...

[Page 90](#) Chapter 3: Software support...

[Page 91: Cpu Features](#)

The Appendix describes the CPU features and technologies that the motherboard supports. CPU features...

[Page 92: Appendix: Cpu Features](#)

32-bit operating systems. • The motherboard comes with a BIOS file that supports EM64T. You can download the latest BIOS file from the ASUS website (www.asus.com/support/download/) if you need to update the BIOS file. See Chapter 2 for details.

[Page 93: Using The Eist](#)

Click Apply, then click OK. 10. Close the Display Properties window. After you adjust the power scheme, the CPU internal frequency slightly decreases when the CPU loading is low. The screen displays and procedures may vary depending on the operating system. ASUS P5B-MX/WIFI-AP...

[Page 94: Intel® Hyper-Threading Technology](#)

Intel Hyper-Threading Technology® • The motherboard supports Intel Pentium 4 LGA775 processors with® Hyper-Threading Technology. • Hyper-Threading Technology is supported under Windows XP/2003 Server® and Linux 2.4.x (kernel) and later versions only. Under Linux,

use the Hyper-Threading compiler to compile the code.

This manual is also suitable for:

[P5b-mx/ wifi-ap](#)