



Asus P5B DELUXE User Manual

P5b deluxe user's manual

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Asus motherboard owner's manual (164 pages)

[Wireless Access Point Asus M2N-VM DH User Manual](#)

Motherboard installation guide (50 pages)

[Motherboard Asus P5BV-C 2L User Manual](#)

P5bv-c series (161 pages)

[Motherboard Asus P5B Premium Series Hardware User Manual](#)

Atx motherboard (188 pages)

[Motherboard Asus P5B Installation Manual](#)

Atx motherboard (140 pages)

[Motherboard Asus P5B Premium SERIES Installation Manual](#)

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[Motherboard Asus P5B-VM DO User Manual](#)

Asus computer hardware user manual (100 pages)

[Motherboard Asus Crosshair II Formula - Republic of Gamers Series](#)

[Motherboard User Manual](#)

User manual (44 pages)

[Motherboard Asus P5B SE - Motherboard - ATX User Manual](#)

User manual (136 pages)

[Motherboard Asus P5B-VM Manual](#)

(101 pages)

[Motherboard ASUS P5BV-M User Manual](#)

(156 pages)

[Motherboard Asus P5B-E - AiLifestyle Series Motherboard Guide D'installation](#)

Motherboard installation guide (158 pages)

[Motherboard Asus P5B-MX - Motherboard - Micro ATX User Manual](#)

P5b-mx user's manual (94 pages)

[Motherboard Asus P5B-MX WIFI-AP Installationshandbuch](#)

Motherboard installation guide (94 pages)

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

Motherboard installation guide (152 pages)

Summary of Contents for Asus P5B DELUXE

[Page 1](#) P5B Deluxe...

[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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[Page 7: 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 8: 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 9: 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 10: 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 11: P5B Deluxe Specifications Summary](#)

Duo / Pentium® Extreme / Pentium® D / Pentium® 4 / Celeron® D Processors Compatible with Intel® 05B/05A/06B processors Intel® Hyper-Threading Technology ready * Refer to www.asus.com for Intel CPU support list Chipset Intel® P965 / ICH8R with Intel® Fast Memory Access Technology...

[Page 12](#) - ASUS 8-Phase Power Design - ASUS Fanless Design: Heat-pipe solution - ASUS Fanless Design: Stack Cool 2 - ASUS Q-Fan 2 - ASUS Optional Fan for Water-cooling or Passive-Cooling only ASUS Crystal Sound: - ASUS Noise Filter - ASUS Array Mic...

[Page 13](#) Intelligent overclocking tools: Overclocking Features - AI NOS™ (Non-delay Overclocking System) - AI Overclocking (intelligent CPU frequency tuner) - ASUS PEG Link - Automatically performance tuning for graphics card - ASUS AI Booster utility Precision Tweaker: - vCore: Adjustable CPU voltage at 0.00625V increment...

[Page 14](#) System Panel BIOS Features 8 Mb Flash ROM, AMI BIOS, PnP, DMI2.0, WfM2.0, SM BIOS 2.3, ACPI 2.0a, Multi-language BIOS, ASUS EZ Flash 2, ASUS CrashFree BIOS 3

Manageability WfM 2.0, DMI 2.0, WOL by PME, WOR by PME, PXE...

[Page 15: Chapter 1: Product Introduction](#)

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

[Page 16](#) Chapter summary Welcome!1-1 Package contents 1-1
Special features1-2 ASUS P5B Deluxe...

[Page 17: Welcome](#)

Welcome! Thank you for buying an ASUS® P5B Deluxe motherboard! The motherboard delivers a host of new features and latest technologies, making it another standout in the long line of ASUS quality motherboards! Before you start installing the motherboard, and hardware devices on it, check the items in your package with the list below.

[Page 18: Special Features](#)

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 19: High Definition Audio](#)

192KHz/24-bit audio output, jack-sensing feature, retasking functions and multi-streaming technology that simultaneously sends different audio streams to different destinations. You can now talk to your partners on the headphone while playing multi-channel network games. See pages 2-23 and 2-24 for details. ASUS P5B Deluxe...

[Page 20: Asus Ai Lifestyle Features](#)

Fanless Design - Stack Cool 2 ASUS Stack Cool 2 is a fan-less and zero-noise cooling solution that lowers the temperature of critical heat generating components. The motherboard uses a special design on the printed circuit board (PCB) to dissipate heat these critical components generate.

[Page 21: Asus Crystal Sound](#)

See page 2-37 for details. Q-Fan 2 ASUS Q-Fan2 technology intelligently adjusts both CPU fan and chassis fan speeds according to system loading to ensure quiet, cool and efficient operation. See page 4-23 and 5-22 for details.

[Page 22: Dts Connect](#)

Blue indicates that the system is in sleep/soft-off mode and red indicates that the system is ON. The ASUS Power LED helps remind you to shut down the system and unplug the power cable before removing or plugging in any motherboard component.

[Page 23: Asus Special Features](#)

1.3.4 ASUS Intelligent Overclocking features AI NOS™ (Non-Delay Overclocking System) The patented ASUS Non-delay Overclocking System™ (AI NOS™) technology auto-detects the CPU loading and dynamically overclocks the CPU speed when needed. Unlike other dynamic overclocking techniques, AI NOS™ reacts much faster to satisfy your need for speed.

[Page 24](#) C.P.R. (CPU Parameter Recall) The C.P.R. feature of the motherboard BIOS allows automatic re-setting to the BIOS default settings in case the system hangs due to overclocking. When the system hangs due to overclocking, C.P.R. eliminates the need to open the system chassis and clear the RTC data.

[Page 25: Chapter 2: Hardware Information](#)

This chapter lists the hardware setup procedures that you have to perform when installing system components. It includes description of the jumpers and connectors on the motherboard. Hardware information...

[Page 26](#) Chapter summary Before you proceed2-1 Motherboard overview

.....2-2 Central Processing Unit (CPU) 2-6 System memory 2-13
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Deluxe...

[Page 27: Before You Proceed](#)

Blue indicates that the system is in sleep/soft-off mode and red indicates that the system is ON. The ASUS Power LED helps remind you to shut down the system and unplug the power cable before removing or plugging in any motherboard component.

[Page 28: Motherboard Overview](#)

Motherboard overview Before you install the motherboard, study the configuration of your chassis to ensure that the motherboard fits into it. Make sure to unplug the power cord before installing or removing the motherboard. Failure to do so can cause you physical injury and damage motherboard components.

[Page 29: Motherboard Layout](#)

Lithium Cell JMicron CMOS Power JMB363 CHA_FAN5 (WiFi-AP Edition Only) PCI1 CLRTC PCI2 CHASSIS AD1988 ® SPDIF_OUT Intel ICH8R PCIEX16_2 BIOS TSB43AB22A SATA5 SATA2 PCIEX1_1 IE1394_2 SATA1_SATA3 PCI3 SATA6 SATA4_CHA_FAN3 CHA_FAN1 USB56 USB78 PANEL AAFP ASUS P5B Deluxe...

[Page 30: Layout Contents](#)

2.2.4 Layout contents Slots Page 1. DDR2 DIMM slots 2-13 2. PCI Express x16 slots 2-20 3. PCI slots 2-20 4. PCI Express x1 slot 2-20 5. Universal PCI-E slot 2-21 Jumper Page 1. Clear RTC RAM (3-pin CLRTC) 2-22 Rear panel connectors Page PS/2 mouse port (green)

[Page 31](#) ATX power connectors (24-pin EATXPWR, 2x4-pin EATX12V) 2-32 10. Front panel audio connector (10-1 pin AAFP) 2-33 11. Optical drive audio connector (4-pin CD) 2-34 12. Digital audio connector (4-1 pin SPDIF) 2-34 13. System panel connector (20-8 pin PANEL) 2-35 ASUS P5B Deluxe...

[Page 32: 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 33: Installing The Cpu](#)

Installing the CPU To install a CPU: Locate the CPU socket on the motherboard. P5B Deluxe CPU Socket 775 Before installing the CPU, make sure that the cam box is facing towards you and the load lever is on your left.

[Page 34](#) 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 35: 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 Deluxe...

[Page 36](#) Connect the CPU fan cable to the connector on the motherboard labeled CPU_FAN. CPU_FAN P5B Deluxe CPU fan connector Do not forget to connect the CPU fan connector! Hardware monitoring errors can occur if you fail to plug this connector.

[Page 37: 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 Deluxe -11...

[Page 38](#) 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 39: System Memory](#)

240-pin footprint compared to the 184-pin DDR DIMM. DDR2 DIMMs are notched differently to prevent installation on a DDR DIMM socket. The figure illustrates the location of the DDR2 DIMM sockets: P5B Deluxe 240-pin DDR2 DIMM sockets Channel Sockets Channel A...

[Page 40](#) • If you install four 1 GB memory modules, the system may detect less than 3 GB of total memory because of address space allocation for other critical functions. This limitation applies to Windows XP 32-bit version operating system since it does not support PAE (Physical Address Extension) mode. •...

[Page 41](#) P5B Deluxe Series Motherboard Qualified Vendors Lists (QVL) DDR2-800MHz capability Qualified Vendors List (QVL) Standard table for user manual DIMM support Chip Size Vendor Chip No. Part No. Brand 1024MB Hynix HY5PS12821BFP-S5 N/A DS HYMP512U64BP8-S5 512MB MICRON 5JAIIZ9DQQ N/A SS MT8HTF6464AY-80EA3...

[Page 42](#) Supports one pair of modules inserted into either Channel A or Channel B as one pair of Dual-channel memory configuration. Supports four modules inserted into the yellow and black slots as two pairs of Dual-channel memory configuration. Visit the ASUS website for the latest DDR2-800/667/533 MHz QVL. Chapter 2: Hardware information [1]...

[Page 43: Installing A Dimm](#)

DIMM. Support the DIMM lightly with your fingers when pressing the retaining clips. The DIMM might get damaged when it flips out with DDR2 DIMM notch extra force. Remove the DIMM from the socket. ASUS P5B Deluxe [1]...

[Page 44: Expansion Slots](#)

Expansion slots In the future, you may need to install expansion cards. The following sub-sections describe the slots and the expansion cards that they support. Make sure to unplug the power cord before adding or removing expansion cards. Failure to do so may cause you physical injury and damage motherboard components.

[Page 45: Interrupt Assignments](#)

— — — — — SATA controller 1 — — shared — — — — — SATA controller 2 — shared — — — — — Azalia — — — — — shared — ASUS P5B Deluxe [1]...

[Page 46: Pci Slots](#)

2.5.4 PCI slots The PCI slots support cards such as a LAN card, SCSI card, USB card, and other cards that comply with PCI specifications. The figure shows a LAN card installed on a PCI slot. 2.5.5 PCI Express x1 slot This motherboard supports PCI Express x1 network cards, SCSI cards and other cards that comply with the PCI Express...

[Page 47](#) Some PCI Express graphics cards cannot operate on x4/x2 mode. We suggest that you install these cards on the primary PCI Express slot (blue) to increase system stability. • Some PCI Express devices cannot operate on x4/x2 mode. ASUS P5B Deluxe [1]1...

[Page 48: Jumper](#)

CLRTC Normal Clear RTC (Default) P5B Deluxe Clear RTC RAM • You do not need to clear the RTC when the system hangs due to overclocking. For system failure due to overclocking, use the C.P.R. (CPU Parameter Recall) feature. Shut down and reboot the system so the BIOS can automatically reset parameter settings to default values.

[Page 49: Connectors](#)

Refer to the table below for the LAN port LED indications. LAN port LED indications Activity/Link Speed LED ACT/LINK SPEED Status Description Status Description No link 10 Mbps connection ORANGE Linked ORANGE 100 Mbps connection BLINKING Data activity GREEN 1 Gbps connection LAN port ASUS P5B Deluxe [1]1...

[Page 50](#) For WiFi-AP Edition Only: Refer to the WiFi-AP Solo user guide for detail configuration and settings. 10. Wireless LAN port. This port is on the onboard wireless LAN module that allows you to set up a wireless network and exchange information with other wireless devices without tagging cables and wires.

[Page 51](#) 16. Optical S/PDIF Out port. This port connects an external audio output device via an optical S/PDIF cable. 17. Coaxial S/PDIF Out port. This port connects an external audio output device via a coaxial S/PDIF cable. 18. PS/2 keyboard port (purple). This port is for a PS/2 keyboard. ASUS P5B Deluxe □□□...

[Page 52: Internal Connectors](#)

NOTE: Orient the red markings on the floppy ribbon cable to PIN 1. PIN 1 P5B Deluxe Floppy disk drive connector IDE connector (40-1 pin PRI_IDE) The onboard IDE connector is for the Ultra DMA 133/100/66 signal cable. There are three connectors on each Ultra DMA 133/100/66 signal cable: blue, black, and gray.

[Page 53](#) NOTE: Orient the red markings (usually zigzag) on the IDE ribbon cable to PIN 1. P5B Deluxe IDE connector ICH8R Serial ATA connectors (7-pin SATA1 [red], SATA2 [red], SATA3 [black], SATA4 [black], SATA5 [red], SATA6 [red]) These connectors are for the Serial ATA signal cables for Serial ATA hard disk drives.

[Page 54: Serial Ata Hard Disk Drive Connection](#)

- You must install Windows 2000 Service Pack 4 or the Windows ® ® Service Pack 1 before using Serial ATA hard disk drives. The Serial ATA RAID feature (RAID 0/RAID 1/RAID 5/RAID 10) is available only if you are using Windows 2000/XP or later version.

[Page 55](#) RAID set. See section “4.4.6 Onboard Device Configuration” for details. SATA_RAID P5B Deluxe SATA_RAID connector Before creating a RAID set using Serial ATA hard disks, make sure that you have connected the Serial ATA signal cables and installed Serial ATA hard disk drives;...

[Page 56](#) Never connect a 1394 cable to the USB connectors. Doing so will damage the motherboard! You can connect the USB cable to ASUS Q-Connector (USB, blue) first, and then install the Q-Connector (USB) to the USB connector onboard. IEEE 1394a port connector (10-1 pin IE1394_2) This connector is for a IEEE 1394a port.

[Page 57](#) Never connect a USB cable to the IEEE 1394a connector. Doing so will damage the motherboard! You can connect the 1394 cable to ASUS Q-Connector (1394, red) first, and then install the Q-Connector (1394) to the 1394 connector onboard. CPU, chassis, power, and chipset fan connectors (4-pin CPU_FAN, 3-pin CHA_FAN1, 3-pin CHA_FAN2, 3-pin CHA_FAN3, 3-pin PWR_FAN;...

[Page 58](#) Remove the jumper caps only when you intend to use the chassis intrusion detection feature. CHASSIS (Default) P5B Deluxe Chassis intrusion connector ATX power connectors (24-pin EATXPWR, 2x4-pin EATX12V) These connectors are for ATX power supply plugs. The power supply plugs are designed to fit these connectors in only one orientation.

[Page 59](#) AAFP HD Audio-compliant Legacy AC 97 audio pin definition pin definition P5B Deluxe Analog front panel 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.

[Page 60](#) These connectors allow you to receive stereo audio input from sound sources such as a CD-ROM, TV tuner, or MPEG card. (black) P5B Deluxe Internal audio connector 12. Digital audio connector (4-1 pin SPDIF) This connector is for an additional Sony/Philips Digital Interface (S/PDIF) port(s).

[Page 61: System Panel Connector](#)

RESET IDE_LED PWRSW Requires an ATX power supply. P5B Deluxe System panel connector • System power LED (2-pin PLED) This 2-pin connector is for the system power LED. Connect the chassis power LED cable to this connector. The system power LED lights up when you turn on the system power, and blinks when the system is in sleep mode.

[Page 62](#) Q-Connector (system panel) You can use ASUS Q-Connector to connect / disconnect chassis front panel cables by only a few steps. Directions below shows how to install ASUS Q-Connector. Step1. Connect correct front panel to ASUS Q- Connector first. You can refer to the marking on Q-Connector itself to know the detail pin definition.

[Page 63: Installing The Optional Fan](#)

- Make sure the optional fan is installed correctly to prevent damage to the fan and motherboard components. Do not tilt the fan. Do not install the fan with its rear side facing you. ASUS P5B Deluxe □-□□...

[Page 64](#) □-□□ Chapter 2: Hardware information...

[Page 65: Chapter 3: Powering Up](#)

This chapter describes the power up sequence, the vocal POST messages, and ways of shutting down the system. Powering up...

[Page 66](#) Chapter summary Starting up for the first time3-1 Turning off the computer 3-2 ASUS P5B Deluxe...

[Page 67: Starting Up For The First Time](#)

Two continuous beeps followed by Floppy controller failure two short beeps Two continuous beeps followed by Hardware component failure four short beeps At power on, hold down the <Delete> key to enter the BIOS Setup. Follow the instructions in Chapter 4. ASUS P5B Deluxe...

[Page 68: Using The Os Shut Down Function](#)

Turning off the computer 3.2.1 Using the OS shut down function ® If you are using Windows 2000: Click the Start button then click Shut Down... Make sure that the Shut Down option button is selected, then click the OK button to shut down the computer.

[Page 69: Chapter 4: 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...

[Page 70](#) Chapter summary Managing and updating your BIOS4-1 BIOS setup program4-9 Main menu 4-12 Advanced menu 4-16 Power menu4-26 Boot menu 4-30 Tools menu 4-35 Exit menu4-37 ASUS P5B Deluxe...

[Page 71: Managing And Updating Your Bios](#)

ASUS Update (Updates the BIOS in Windows environment.) ® ASUS EZ Flash 2 (Updates the BIOS using a floppy disk or USB flash disk.) ASUS AFUDOS (Updates the BIOS using a bootable floppy disk) ASUS CrashFree BIOS 3 (Updates the BIOS using a bootable floppy disk, USB flash disk or the motherboard support CD when the BIOS file fails or gets corrupted.)

[Page 72](#) To update the BIOS through the Internet: 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 the Select the ASUS FTP site nearest...

[Page 73](#) 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 74: Creating A Bootable Floppy Disk](#)

4.1.2 Creating a bootable floppy disk Do either one of the following to create a bootable floppy disk. DOS environment a. Insert a 1.44MB floppy disk into the drive. b. At the DOS prompt, type format A:/S then press <Enter>. Windows XP environment ®...

[Page 75: Asus Ez Flash 2 Utility](#)

4.1.3 ASUS EZ Flash 2 utility The ASUS EZ Flash 2 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 2 utility is built-in the BIOS chip so it is accessible by pressing <Alt>...

[Page 76: Afudos Utility](#)

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. Chapter 4: BIOS setup...

Page 77 A:\>afudos /iP5BDELUXE.ROM The utility verifies the file and starts updating the BIOS. A:\>afudos /iP5BDLUXE.ROM AMI Firmware Update Utility - Version 1.19(ASUS V2.07(03.11.24BB)) Copyright (C) 2002 American Megatrends, Inc. All rights reserved. WARNING!! Do not turn off power during flash BIOS Reading file ..

[Page 78: Asus Crashfree Bios 3 Utility](#)

4.1.5 ASUS CrashFree BIOS 3 utility The ASUS CrashFree BIOS 3 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, the floppy disk, or the USB flash disk that contains the updated BIOS file.

[Page 79: 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 Deluxe...

[Page 80: Bios Menu Screen](#)

4.2.1 BIOS menu screen Menu items Menu bar Configuration fields General help BIOS SETUP UTILITY Main Advanced Security Power Exit Use [ENTER], [TAB] System Time [10:55:25] or [SHIFT-TAB] to System Date [Mon 07/24/2006] select a field. Floppy A [1.44M, 3.5 in] U s e [+] o r [-] Primary IDE Master [Not Detected]...

[Page 81: Menu Items](#)

Up/Down arrow keys or <Page Up> /<Page Down> keys to display the other items on the screen. 4.2.9 General help Pop-up window At the top right corner of the menu screen Scroll bar is a brief description of the selected item. ASUS P5B Deluxe □-11...

[Page 82: 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 “4.2.1 BIOS menu screen” for information on the menu screen items and how to navigate through them. BIOS SETUP UTILITY Main Advanced...

[Page 83: Sata 1-6](#)

When set to [Disabled], the data transfer from and to the device occurs one sector at a time. Configuration options: [Disabled] [Auto] PIO Mode [Auto] Selects the PIO mode. Configuration options: [Auto] [0] [1] [2] [3] [4] ASUS P5B Deluxe □-1□...

[Page 84: Ide Configuration](#)

DMA Mode [Auto] Selects the DMA mode. Configuration options: [Auto] [SWDMA0] [SWDMA1] [SWDMA2] [MWDMA0] [MWDMA1] [MWDMA2] [UDMA0] [UDMA1] [UDMA2] [UDMA3] [UDMA4] [UDMA5] 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 85: System Information](#)

Select Screen Select Item General Help Save and Exit Exit v02.58 (C)Copyright 1985-2006, American Megatrends, Inc. 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 Deluxe [F1]...

[Page 86: Advanced Menu](#)

Loads the optimal settings for the system. Standard Loads the standard settings for the system. AI N.O.S. The ASUS Non-delay Overclocking System feature intelligently determines the system load and automatically boosts the performance for the most demanding tasks. Chapter 4: BIOS setup...

[Page 87](#) Allows you to synchronize the PCI frequency with the PCI Express or CPU frequency. Configuration options: [Auto] [33.33MHz] Spread Spectrum [Auto] Allows you to enable or disable the clock generator spread spectrum. Configuration options: [Disabled] [Enabled] [Auto] ASUS P5B Deluxe [F1]...

[Page 88](#) The following items also appear when the AI Tuning item is set to [AI NOS]. Memory Voltage [Auto] Allows you to select the DDR2 reference voltage. Configuration options: [Auto] [1.80V] [1.85V] [1.90V] [1.95V] [2.00V] [2.05V] [2.10V] [2.15V] [2.25V] [2.30V] [2.35V] [2.40V] [2.45V] Refer to the DDR2 documentation before adjusting the memory voltage.

[Page 89: Lan Cable Status](#)

Select Field General Help Save and Exit Exit v02.58 (C)Copyright 1985-2006, American Megatrends, Inc. POST Check LAN Cable [Disabled] Enables or disables checking of the LAN cable during the Power-On Self-Test (POST). Configuration options: [Disabled] [Enabled] ASUS P5B Deluxe [F1]...

[Page 90: Usb Configuration](#)

4.4.3 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. BIOS SETUP UTILITY Advanced USB Configuration Options Module Version - 2.24.0-11.4 Enabled USB Devices Enabled: Disabled None Legacy USB Support...

[Page 91: Cpu Configuration](#)

Setting this item to [Enabled] allows legacy operating systems to boot even without support for CPUs with extended CPUID functions. Configuration options: [Disabled] [Enabled] Vanderpool Technology [Enabled] Configuration options: [Enabled] [Disabled] CPU TM function [Enabled] Configuration options: [Disabled] [Enabled] ASUS P5B Deluxe [F1]...

[Page 92: Chipset](#)

Execute Disable Bit [Enabled] Allows you to enable or disable the No-Execution Page Protection Technology. Setting this item to [Disabled] forces the XD feature flag to always return to zero (0). Configuration options: [Disabled] [Enabled] Hyper Threading Technology [Enabled] Allows you to enable or disable the Hyper Threading Technology. Configuration options: [Enabled] [Disabled] Inter(R) SpeedStep (tm) Tech.

[Page 93: South Bridge Chipset Configuration](#)

Select Screen Select Item Change Option General Help Save and Exit Exit v02.58 (C)Copyright 1985-2006, American Megatrends, Inc. PCIEX16_2/PCIEX1_1 Force [Auto] Allows you to manually adjust PCIEX16_2/PCIEX1_1 configuration. Configuration options: [X2/X1 Mode (compatible)] [X4/disabled Mode (fast)] [Auto] ASUS P5B Deluxe [F1]...

[Page 94: Onboard Device Configuration](#)

4.4.6 OnBoard Devices Configuration BIOS SETUP UTILITY Advanced Configure Win627EHF Super IO Chipset Enable or Disable High Definition Audio HD Audio Controller [Enabled] Controller Front Panel Support Type [HD Audio] Onboard 1394 Controller [Enabled]...

[Page 95: Pci Pnp](#)

IRQ-xx assigned to [PCI Device] When set to [PCI Device], the specific IRQ is free for use of PCI/PnP devices. When set to [Reserved], the IRQ is reserved for legacy ISA devices. Configuration options: [PCI Device] [Reserved] ASUS P5B Deluxe [F1]...

[Page 96: Power Menu](#)

Power menu The Power menu items allow you to change the settings for the Advanced Power Management (APM). Select an item then press <Enter> to display the configuration options. BIOS SETUP UTILITY Main Advanced Power Boot Tools Exit Suspend Mode [Auto] Select the ACPI state Repost Video on S3 Resume...

[Page 97: Apm Configuration](#)

Allows you to enable or disable the PME to wake up from S5 by PCI devices. Configuration options: [Disabled] [Enabled] Power On By PCIE Devices [Disabled] Allows you to enable or disable the PCIE devices to generate a wake event. Configuration options: [Disabled] [Enabled] ASUS P5B Deluxe □-□□...

[Page 98: Hardware Monitor](#)

Power On By PS/2 Keyboard [Disabled] Allows you to disable the Power On by PS/2 keyboard function or set specific keys on the PS/2 keyboard to turn on the system. This feature requires an ATX power supply that provides at least 1A on the +5VSB lead. Configuration options: [Disabled] [Space Bar] [Ctrl-Esc] [Power Key] Power On By PS/2 Mouse [Disabled] When set to [Enabled], this parameter allows you to use the PS/2 mouse to turn on...

[Page 99](#) N/A. Vcore Voltage, 3.3V Voltage, 5V Voltage, 12V Voltage The onboard hardware monitor automatically detects the voltage output through the onboard voltage regulators. Select [Ignored] if you do not want to detect this item. ASUS P5B Deluxe □-□□...

[Page 100: Boot Menu](#)

A d e v i c e n c l o s e d 4th Boot Device [IDE:ASUS CD-S520/A] i n p a r e n t h e s i s h a s been disabled in the corresponding menu.

[Page 101: 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. AddOn ROM Display Mode [Force BIOS] Sets the display mode for option ROM.

[Page 102](#) Wait for 'F1' If Error [Enabled] When set to Enabled, the system waits for the F1 key to be pressed when error occurs. Configuration options: [Disabled] [Enabled] Hit 'DEL' Message Display [Enabled] When set to Enabled, the system displays the message "Press DEL to run Setup" during POST.

[Page 103: Security](#)

Time Clock (RTC) RAM. See section "2.6 Jumpers" for information on how to erase the RTC RAM. After you have set a supervisor password, the other items appear to allow you to change other security settings. ASUS P5B Deluxe □-□□...

[Page 104: Change User Password](#)

BIOS SETUP UTILITY Boot Security Settings <Enter> to change password. Supervisor Password : Not Installed <Enter> again to User Password : Not Installed disabled password. Change Supervisor Password User Access Level [Full Access] Change User Password Clear User Password Password Check [Setup] Select Screen Select Item...

[Page 105: Tools Menu](#)

4.7.1 ASUS EZ Flash 2 Allows you to run ASUS EZ Flash 2. When you press <Enter>, a confirmation message appears. Use the left/right arrow key to select between [Yes] or [No], then press <Enter> to confirm your choice. Please see page 4-5, section 4.1.3 for details.

[Page 106: Asus O.c. Profile](#)

4.7.2 ASUS O.C. Profile This item allows you to store or load multiple BIOS settings. BIOS SETUP UTILITY Tools O.C. PROFILE Configuration Save to Profile 1 O.C. Profile 1 Status : Not Installed O.C. Profile 2 Status : Not Installed...

[Page 107: Exit Menu](#)

Setup menus. When you select this option or if you press <F5>, a confirmation window appears. Select YES to load default values. Select Exit & Save Changes or make other changes before saving the values to the non-volatile RAM. ASUS P5B Deluxe □-□□...

[Page 108](#) Chapter 4: BIOS setup □-□□...

[Page 109: Chapter 5: Software Support](#)

This chapter describes the contents of the support CD that comes with the motherboard package. Software support...

[Page 110](#) Chapter summary Installing an operating system 5-1 Support CD information 5-1 Software information5-8 RAID configurations5-29 Creating a RAID driver disk5-46 ASUS P5B Deluxe...

[Page 111: 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. 5.2.1 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 112: Drivers Menu](#)

The drivers menu shows the available device drivers if the system detects installed devices. Install the necessary drivers to activate the devices. ASUS InstAll-Drivers Installation Wizard Installs all of the drivers through the Installation Wizard. Intel Chipset Inf Update Program Installs the Intel chipset Inf update program.

[Page 113: Utilities Menu](#)

ASUS Ai Suite Install the ASUS Ai Suite. 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).

[Page 114: Make Disk Menu](#)

ADOBE Acrobat Reader V7.0 Installs the Adobe Acrobat Reader that allows you to open, view, and print ® ® documents in Portable Document Format (PDF). Marvell Yukon VCT Application Installs the Marvell Yukon Virtual Cable Tester™ (VCT) application that diagnoses ®...

[Page 115: Manual Menu](#)

Reader from the Utilities menu before opening a user manual file. ® 5.2.6 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 Deluxe...

[Page 116: Other Information](#)

5.2.7 Other information The icons on the top right corner of the screen give additional information on the motherboard and the contents of the support CD. Click an icon to display the specified information. Motherboard Info Displays the general specifications of the motherboard. Browse this CD Displays the support CD contents in graphical format.

[Page 117: Technical Support Form](#)

Technical support Form Displays the ASUS Technical Support Request Form that you have to fill out when requesting technical support. Filelist Displays the contents of the support CD in text format. ASUS P5B Deluxe...

[Page 118: Software Information](#)

5.3.1 ASUS MyLogo2™ The ASUS MyLogo2™ utility lets you customize the boot logo. The boot logo is the image that appears on screen during the Power-On-Self-Tests (POST). The ASUS MyLogo2™ is automatically installed when you install the ASUS Update utility from the support CD.

[Page 119](#) Ratio box. When the screen returns to the ASUS Update utility, flash the original BIOS to load the new boot logo. 10. After flashing the BIOS, restart the computer to display the new boot logo during POST.

[Page 120: Ai Net2](#)

5.3.2 AI NET2 ® The AI NET2 features the Marvell Virtual Cable Tester™ (VCT). VCT is a cable diagnostic utility that reports LAN cable faults and shorts using the Time Domain Reflectometry (TDR) technology. The VCT detects and reports open and shorted cables, impedance mismatches, pair swaps, pair polarity problems, and pair skew problems of up to 64 ns at one meter accuracy.

[Page 121: Pc Probe li](#)

® To launch the PC Probe II from the Windows desktop, click Start > All Programs > ASUS > PC Probe II > PC Probe II v1.xx.xx. The PC Probe II main window appears. ® After launching the application, the PC Probe II icon appears in the Windows taskbar.

[Page 122](#) Button Function Opens the Configuration window Opens the Report window Opens the Desktop Management Interface window Opens the Peripheral Component Interconnect window Opens the Windows Management Instrumentation window Opens the hard disk drive, memory, CPU usage window Shows/Hides the Preference section Minimizes the application Closes the application Sensor alert...

[Page 123](#) You can also adjust Click to increase the threshold values using the value Config window. Click to You cannot adjust the sensor decrease threshold values in a small value monitoring panel. ASUS P5B Deluxe □-1□...

[Page 124](#) Monitoring sensor alert The monitor panel turns red when a component value exceeds or is lower than the threshold value. Refer to the illustrations below. Small display Large display WMI browser Click to display the WMI (Windows Management Instrumentation) browser. This ®...

[Page 125](#) Click a hard disk drive to display the information on the right panel. The pie chart at the bottom of the window represents the used (blue) and the available HDD space. ASUS P5B Deluxe □-1□...

[Page 126](#) Memory usage The Memory tab shows both used and available physical memory. The pie chart at the bottom of the window represents the used (blue) and the available physical Configuring PC Probe II Click to view and adjust the sensor threshold values. The Config window has two tabs: Sensor/Threshold and Preference.

[Page 127: Asus Ai Suite](#)

5.3.4 ASUS Ai Suite ASUS Ai Suite allows you to launch Ai Gear, Ai N.O.S., Ai Booster, Ai Nap, and Q-Fan utilities easily. Installing Ai Suite To install Ai Suite on your computer: Place the support CD to the optical drive. The Drivers installation tab appears if your computer has an enabled Autorun feature.

[Page 128](#) Other feature buttons Click on right corner of the main window to open the monitor window. Displays the CPU/ system temperature, CPU/memory/PCIE voltage, and CPU/ chassis fan speed Displays the FSB/CPU frequency Click on right corner of the expanded window to switch the temperature from degrees Centigrade to degrees Fahrenheit.

[Page 129: Asus Ai Gear](#)

5.3.5 ASUS Ai Gear ASUS Ai Gear provides four system performance options that allows you to select the best performance setting for your computing needs. This easy-to-use utility adjusts the processor frequency and vCore voltage to minimize system noise and power consumption.

[Page 130: Asus Ai Nap](#)

5.3.6 ASUS Ai Nap This feature allows you to minimize the power consumption of your computer whenever you are away. Enable this feature for minimum power consumption and a more quiet system operation. After installing Ai Suite from the bundled support CD, you can launch the utility by double-clicking the Ai Suite icon on the Windows OS taskbar and click the Ai Nap

button on the Ai Suite main window.

[Page 131: Asus Ai N.o.s](#)

5.3.7 ASUS Ai N.O.S. This ASUS Non-delay Overclocking System feature intelligently determines the system load and automatically boosts the performance for the most demanding tasks. After installing Ai Suite from the bundled support CD, you can launch the utility by double-clicking the Ai Suite icon on the Windows OS taskbar and click the Ai N.O.S.

[Page 132: Asus Q-Fan](#)

5.3.8 ASUS Q-Fan This ASUS Q-Fan Control feature allows you to set the appropriate performance level of the CPU Q-Fan or the Chassis Q-Fan for more efficient system operation. After enabling the Q-Fan function, the fans can be set to automatically adjust depending on the temperature, to decrease fan speed, or to achieve the maximum fan speed.

[Page 133: Asus Ai Booster](#)

5.3.9 ASUS Ai Booster The ASUS Ai Booster application allows you to overclock the CPU speed in Windows environment without the hassle of booting the BIOS. ® After installing Ai Suite from the bundled support CD, you can launch the utility...

[Page 134: Soundmax® High Definition Audio Utility](#)

® 5.3.10 SoundMAX High Definition Audio utility The ADI AD1988 High Definition Audio CODEC provides 8-channel audio ® capability through the SoundMAX audio utility with AudioESP™ software to deliver the ultimate audio experience on your PC. The software implements high quality audio synthesis/rendering, 3D sound positioning, and advanced voice-input technologies.

[Page 135](#) SoundMAX Control Panel. Audio Setup Wizard ® By clicking the icon from the SoundMAX control panel, you can easily configure your audio settings. Simply follow succeeding screen instructions and begin enjoying High Definition Audio. ASUS P5B Deluxe □-□□...

[Page 136](#) Jack configuration Adjust speaker volume This screen helps you configure your This screen helps you adjust speaker computer's audio ports, depending on volume. Click the Test button to hear the audio devices you have installed. the changes you have made. Adjust microphone volume This screen helps you adjust microphone volume.

[Page 137](#) DTS audio signal and send it out from your PC to any DTS enabled system. While DTS NEO:PC turns your stereo audio such as MP3, WMA, CD, and other sound format into a convincing multi-channel audio experience. ASUS P5B Deluxe □-□□...

[Page 138](#) You can enable it when you have conference call to reduce echoes in the other side. The directional Array and Speaker Phone function only when working with the ASUS Array Mic. Chapter 5: Software support...

[Page 139: Raid Configurations](#)

RAID driver from the support CD to a floppy disk before you install an operating system to the selected hard disk drive. Refer to section "5.5 Creating a RAID driver disk" for details. ASUS P5B Deluxe □-□□...

[Page 140: Installing Serial Ata Hard Disks](#)

5.4.1 Installing Serial ATA hard disks The motherboard supports Serial ATA hard disk drives. For optimal performance, install identical drives of the same model and capacity when creating a disk array. To install the SATA hard disks for a RAID configuration: Install the SATA hard disks into the drive bays.

[Page 141: Intel Matrix Storage Manager Option Rom Utility](#)

The navigation keys at the bottom of the screen allow you to move through the menus and select the menu options. The RAID BIOS setup screens shown in this section are for reference only and may not exactly match the items on your screen. ASUS P5B Deluxe □-□1...

[Page 142](#) Creating a RAID 0 set (striped) To create a RAID 0 set: From the utility main menu, select 1. Create RAID Volume, then press <Enter>. This screen appears. Intel(R) Matrix Storage

Manager Option ROM v5.0.0.1032 ICH8R wRAID5 Copyright(C) 2003-05 Intel Corporation. All Rights Reserved. [CREATE ARRAY MENU] Name:...

[Page 143](#) WARNING: ALL DATA ON SELECTED DISKS WILL BE LOST. Are you sure you want to create this volume? (Y/N): Press <Y> to create the RAID volume and return to the main menu, or <N> to go back to the Create Volume menu. ASUS P5B Deluxe □-□□...

[Page 144](#) Creating a RAID 1 set (mirrored) To create a RAID 1 set: From the utility main menu, select 1. Create RAID Volume, then press <Enter>. This screen appears. Intel(R) Matrix Storage Manager Option ROM v5.0.0.1032 ICH8R wRAID5 Copyright(C) 2003-05 Intel Corporation. All Rights Reserved. [CREATE ARRAY MENU Name: Volume1...

[Page 145](#) Key in the RAID volume capacity that you want then press <Enter> when the Capacity item is highlighted. The default value indicates the maximum allowed capacity. ASUS P5B Deluxe □-□□...

[Page 146](#) Press <Enter> when the Create Volume item is highlighted. This warning message appears. WARNING: ALL DATA ON SELECTED DISKS WILL BE LOST. Are you sure you want to create this volume? (Y/N): Press <Y> to create the RAID volume and return to the main menu or <N> to go back to the Create Volume menu.

[Page 147](#) WARNING: ALL DATA ON SELECTED DISKS WILL BE LOST. Are you sure you want to create this volume? (Y/N): Press <Y> to create the RAID volume and return to the main menu or <N> to go back to the Create Volume menu. ASUS P5B Deluxe □-□□...

[Page 148: Raid Configuration](#)

® 5.4.3 JMicron RAID Configuration ® The JMicron Serial ATA controller allows you to configure RAID 0, RAID 1 and JBOD sets on the external Serial ATA hard disk drives. Before creating a RAID set Prepare the following items: Two SATA HDDs, preferably with the same model and capacity. A write-enabled floppy disk ®...

[Page 149: Creating A Raid Set](#)

In the main JMB363 RAID BIOS menu, highlight Create RAID Disk Drive using the up/down arrow key then press <Enter>. [Main Menu] Create RAID Disk Drive Delete RAID Disk Drive Revert HDD to Non-RAID Solve Mirror Conflict Rebuild Mirror Drive Save and Exit Setup Exit Without Saving ASUS P5B Deluxe □-□□...

[Page 150](#) When the Level item is highlighted, use the up/down arrow key to select the RAID set that you want to create. [Create New RAID] [Create New RAID] Name : JRAID Name : JRAID Level: 0-Stripe Level: 1-Mirror Disks: Select Disk Disks: Select Disk Block: 128 KB Block: N/A...

[Page 151](#) Pressing <Y> deletes all the data in the HDDs. The following screen appears, displaying the relevant information about the RAID set you created. [RAID Disk Drive List] Model Name RAID Level Capacity Status Members(HDDx) RDD0: JRAID 0-Stripe XXX GB Normal 01 ASUS P5B Deluxe □-□1...

[Page 152: Deleting A Raid Set](#)

Deleting a RAID set In the main JMB363 RAID BIOS menu, highlight Delete RAID Disk Drive using the up/down arrow key then press <Enter>. [Main Menu] Create RAID Disk Drive Delete RAID Disk Drive Revert HDD to Non-RAID Solve Mirror Conflict Rebuild Mirror Drive Save and Exit Setup Exit Without Saving...

[Page 153: Resetting Disks To Non-Raid](#)

Use the space bar to select the HDD that you want to reset to non-RAID. A selected HDD shows a sign before it. A dialogue box appears to confirm the action. Press <Y> to confirm; otherwise, press <N>. Pressing <Y> deletes all the data in the HDD. ASUS P5B Deluxe □-□□...

[Page 154: Solving A Mirror Conflict](#)

Solving a Mirror conflict A Mirror conflict occurs when both disks in a RAID 1 (Mirror) configuration are unplugged from the system in turn, then plugged in again. Since both disks contain exactly the same data, the system will be unable to determine which of the two is the

source drive.

[Page 155: Rebuilding A Mirror Drive](#)

<Enter> to save the current RAID configuration and exit the JMB363 RAID BOS utility. A dialogue box appears to confirm the action. Press <Y> to confirm; otherwise, press <N> to return to the JMB RAID BIOS menu. ASUS P5B Deluxe □-□□...

[Page 156: Creating A Raid Driver Disk](#)

Creating a RAID driver disk ® A floppy disk with the RAID driver is required when installing Windows 2000/XP and later operating system on a hard disk drive that is included in a RAID set.
5.5.1 Creating a RAID driver disk without entering the OS To create a RAID driver disk without entering the OS: Boot your computer.

[Page 157](#) Press <F6> then insert the floppy disk with RAID driver into the floppy disk drive. When prompted to select the SCSI adapter to install, make sure you select Intel(R) 82801GH/GM SATA RAID Controller (Desktop ICH8R) and JMicron JMB363. Follow the succeeding screen instructions to complete the installation. ASUS P5B Deluxe □-□□...

[Page 158](#) Chapter 5: Software support □-□□...

[Page 159: Appendix: Cpu Features](#)

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

[Page 160: Chapter Summary](#)

Chapter summary ® Intel EM64TA-1 ® Enhanced Intel SpeedStep Technology (EIST)A-1 ® Intel Hyper-Threading TechnologyA-3 ASUS P5B Deluxe...

[Page 161: Intel® Em64T](#)

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/](http://www.asus.com/support/download/)) if you need to update the BIOS file. See Chapter 4 for details.

[Page 162: Using The Eist](#)

A.2.2 Using the EIST To use the EIST feature: Turn on the computer, then enter the BIOS Setup. Go to the Advanced Menu, highlight CPU Configuration, then press <Enter>. Set the Intel(R) SpeedStep Technology item to [Automatic], then press <Enter>. See page 4-27 for details. Press <F10>...

[Page 163: Intel® Hyper-Threading Technology](#)

Power up the system and enter the BIOS Setup. Under the Advanced Menu, make sure that the item Hyper-Threading Technology is set to Enabled. See page 4-27 for details. The BIOS item appears only if you installed a CPU that supports Hyper- -Threading Technology. Restart the computer. ASUS P5B Deluxe...

[Page 164](#) Appendix: CPU features...

This manual is also suitable for: