

# Asus P6T DELUXE - Motherboard - ATX User Manual

User guide



1

2

Table Of Contents

3

4

5

6

7

8

9

10

11

12

13

14

15

16

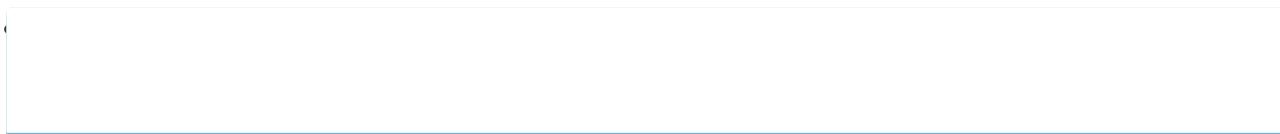
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18  
19  
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24  
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28  
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161  
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165  
166  
167

168  
169  
170  
171  
172  
173  
174  
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176  
177  
178  
179  
180  
181  
182



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[Table of Contents](#)

•

## Bookmarks

## Quick Links

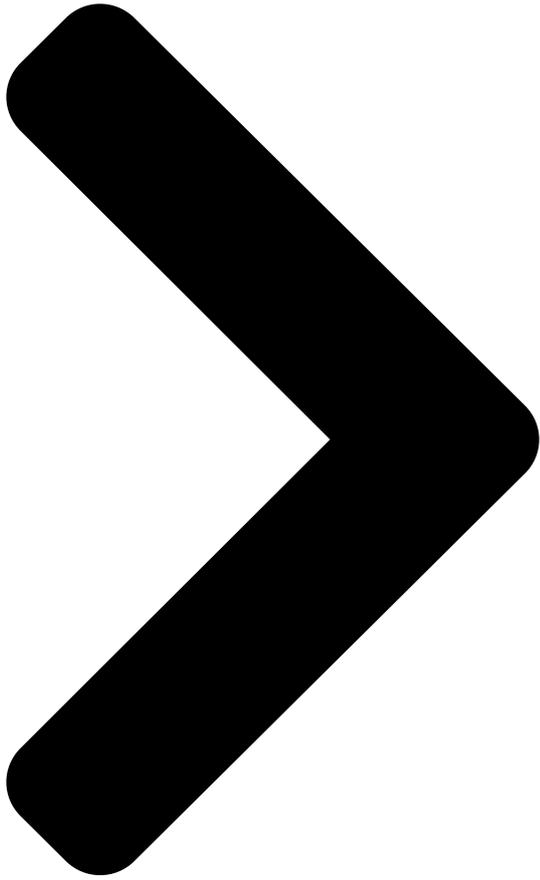
[1 Motherboard Layout](#)

[2 Motherboard Overview](#)

[3 System Memory](#)

[4 Memory Configurations](#)

[Download this manual](#)



P6T Deluxe V2



## Table of Contents

[Next Page](#)

1  
2  
3  
4  
5

## Related Manuals for Asus P6T DELUXE - Motherboard - ATX

[Motherboard Asus P6T DELUXE/OC PALM - Motherboard - ATX  
Bedienungshandbuch](#)

User guide (196 pages)

[Motherboard Asus P6X58-E PRO User Manual](#)

Intel x58/ich10r (130 pages)

[Motherboard Asus P6X58-E WS User Manual](#)

(152 pages)

[Motherboard Asus P6T - Motherboard - ATX User Manual](#)

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[Motherboard Asus P6T7 WS SuperComputer - Motherboard - SSI CEB  
User Manual](#)

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Atx form factor motherboard (194 pages)

[Motherboard Asus P6T6WS Revolution - Motherboard - ATX User  
Manual](#)

Motherboard - atx (192 pages)

[Motherboard Asus P6T6 WS Revolution User Manual](#)

(184 pages)

[Motherboard ASUS P6X58D-E User Manual](#)

(128 pages)

[Motherboard Asus P6X58D - Premium X58 LGA1366 MAX-24GB Atx  
3PCIE16 Pcie Pci User Manual](#)

User manual (126 pages)

[Motherboard Asus P8Z77-V LX Guía De Inicio Rápido](#)

(12 pages)

[Motherboard Asus P5WDG2-WS User Manual](#)

P5wdg2-ws user's manual for english edition (160 pages)

## Summary of Contents for Asus P6T DELUXE - Motherboard - ATX

[Page 1](#) P6T Deluxe V2...

[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](#)

Welcome! .....1-1 Package contents ..... 1-1 Special features .....1-2 1.3.1  
Product highlights .....1-2 1.3.2 ASUS Unique features ..... 1-3 Chapter 2: Hardware  
information Before you proceed .....2-1 Motherboard overview .....2-2 2.2.1  
Motherboard layout .....2-2 2.2.2...

### [Page 4: Contents](#)

Chapter 3: BIOS setup Managing and updating your BIOS .....3-1 3.1.1 ASUS Update utility  
.....3-1 3.1.2 ASUS EZ Flash 2 utility ..... 3-4 3.1.3 Creating a bootable floppy disk  
.....3-5 3.1.4 AFUDOS utility .....3-6 3.1.5 ASUS CrashFree BIOS 3 utility .....3-8 BIOS  
setup program .....

[Page 5](#) Contents 3.3.7 AHCI Configuration .....3-15 3.3.8 System Information .....3-16  
Ai Tweaker menu ..... 3-17 3.4.1 Ai Overclock Tuner .....3-17 3.4.2 CPU Ratio Setting  
.....3-18 3.4.3 Intel(R) SpeedStep(TM) Tech .....3-18 3.4.4 Intel(R) Turbo Mode Tech  
.....3-18 3.4.5 DRAM Frequency .....

[Page 6](#) Boot Device Priority .....3-36 3.7.2 Boot Settings Configuration ..... 3-37 3.7.3  
Security ..... 3-38 Tools menu ..... 3-40 3.8.1 ASUS EZ Flash 2 .....3-40 3.8.2  
Express Gate ..... 3-41 3.8.3 ASUS O.C. Profile .....3-42 3.8.4 Ai Net 2 ..... 3-43  
Exit menu .....

[Page 7](#) Contents 4.4.1 RAID definitions .....4-44 4.4.2 Installing Serial ATA hard disks  
.....4-45 4.4.3 Intel RAID configurations .....4-45 ® Creating a RAID driver disk .....4-53  
4.5.1 Creating a RAID driver disk without entering the OS ..4-53 4.5.2 Creating a RAID driver  
disk in Windows .....

### [Page 8: 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 9: 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 10: 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 11: 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 12: P6T Deluxe V2 Specifications Summary](#)

® \* Hyper DIMM support is subject to the physical characteristics of individual CPUs. \*\* Refer to  
www.asus.com or this user manual for the Memory QVL (Qualified Vendors Lists) Expansion  
Slots 3 x PCI Express 2.0 x16 slots (at x16/x16/x1 or x16/x8/x8...

[Page 13](#) P6T Deluxe V2 specifications summary ASUS Unique features ASUS Exclusive  
Features: - ASUS TurboV - ASUS True 16+2 Phase Power Design - Express Gate SSD ASUS Power

Saving Solution: - ASUS EPU-6 Engine - ASUS AI Nap ASUS Quiet Thermal Solution:...

[Page 14](#) 16 Mb AMI BIOS, PnP, DMI 2.0, WfM 2.0, SM BIOS 2.4, Multi-language BIOS Manageability WOL by PME, WOR by PME, Chassis Intrusion, PXE Support DVD Contents Drivers ASUS PC Probe II ASUS Update ASUS AI Suite Image-Editing Suite Anti-virus software (OEM version) Form Factor ATX Form Factor, 12"x 9.6" ...

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

This chapter describes the motherboard features and the new technologies it supports. Chapter 1: Product introduction...

[Page 16](#) Chapter summary Welcome! .....1-1 Package contents ..... 1-1 Special features .....1-2 ASUS P6T Deluxe V2...

## [Page 17: Welcome](#)

® 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/packagings to safeguard consumers' health while minimizing the impact on the environment.

## [Page 19: Asus Unique Features](#)

ASUS Unique features ASUS TurboV Feel the adrenaline rush of real-time OC—now a reality with the ASUS TurboV. This extreme OC tool lets you set new ambitions on the OC stage with an advanced and easy-to-use interface—allowing you to overclock without exiting or rebooting the OS.

## [Page 20: Asus Quiet Thermal Solution](#)

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](#)

Fan Xpert ASUS Fan Xpert intelligently allows users to adjust both the CPU and chassis fan speed according to different ambient temperature, which is caused by different climate conditions in different geographic regions and system loading. Built-in variety of useful profiles offer flexible controls of fan speed to achieve a quiet and cool environment.

[Page 22](#) See page 3-42 for details. ASUS CrashFree BIOS 3 The ASUS CrashFree BIOS 3 allows users to restore corrupted BIOS data from a USB flash disk containing the BIOS file. See page 3-8 for details. ASUS EZ Flash 2 EZ Flash 2 is a user-friendly BIOS update utility.

## [Page 23: Asus Mylogo2](#)

ASUS Multi-language BIOS The multi-language BIOS allows you to select the language of your choice from the available options. The localized BIOS setup menu helps you configure your system easier and faster. See page 3-12 for details. ASUS P6T Deluxe V2...

[Page 24](#) Chapter 1: Product Introduction...

## [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 Chapter 2: Hardware connectors on the motherboard. information...

[Page 26](#) Expansion slots .....2-20 Jumpers .....2-24 Onboard switches

.....2-26 Connectors ..... 2-27 Installing the additional heatsink fan .....2-40 2.10  
Starting up for the first time .....2-41 2.11 Turning off the computer .....2-42 ASUS P6T  
Deluxe V2...

### [Page 27: Before You Proceed](#)

Before you install or remove any component, ensure that the ATX power supply is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard, peripherals, and/or components. ASUS P6T Deluxe V2...

### [Page 28: Motherboard Overview](#)

Motherboard overview 2.2.1 Motherboard layout Refer to 2.8 Connectors for more information about rear panel connectors and internal connectors. Chapter 2: Hardware information...

### [Page 29: Layout Contents](#)

IEEE 1394a port connector (10-1 pin IE1394\_2) 2-33 Floppy disk drive connector (34-1 pin FLOPPY) 2-29 Optical drive audio connector (4-pin CD) 2-37 Front panel audio connector (10-1 pin AAFP) 2-35 Digital audio connector (4-1 pin SPDIF\_OUT) 2-37 Express\_Gate SSD 4-35 ASUS P6T Deluxe V2...

### [Page 30: Placement Direction](#)

2.2.3 Placement direction When installing the motherboard, make sure that you place it into the chassis in the correct orientation. The edge with external ports goes to the rear part of the chassis as indicated in the image below. 2.2.4 Screw holes Place nine (9) screws into the holes indicated by circles to secure the motherboard to the chassis.

### [Page 31: 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 LGA1366 socket.

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

2.3.1 Installing the CPU To install a CPU: Locate the CPU socket on the motherboard. Before installing the CPU, make sure that the cam box is facing towards you and the load lever is on your left. Press the load lever with your Retention tab thumb (A), then move it to the left (B) until it is released from the...

[Page 33](#) If it gets into your eyes or touches your skin, ensure to wash it off immediately and seek professional medical help. To prevent contaminating the paste, DO NOT spread the paste with your finger directly. ASUS P6T Deluxe V2...

[Page 34](#) Close the load plate (A), and then push the load lever (B) until it snaps into the retention tab. Chapter 2: Hardware information...

### [Page 35: Installing The Cpu Heatsink And Fan](#)

Push down two fasteners at a time in a diagonal sequence to secure the heatsink and fan assembly in place. Orient the heatsink and fan assembly such that the CPU fan cable is closest to the CPU fan connector. ASUS P6T Deluxe V2...

### [Page 36: Uninstalling The Cpu Heatsink And Fan](#)

Connect the CPU fan cable to the connector on the motherboard labeled CPU\_FAN. DO NOT forget to connect the CPU fan connector! Hardware monitoring errors can occur if you fail to plug this connector. 2.3.3 Uninstalling the CPU heatsink and fan To uninstall the CPU heatsink and fan: Disconnect the CPU fan cable from the connector on the motherboard.

### [Page 37: Installing The Optional Fans](#)

• Plug the optional fan cable to the CHA\_FAN2 connector on the motherboard. • Make sure the optional fan is installed correctly to prevent damage to the fan and motherboard components. ASUS P6T Deluxe V2 2-11...

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

System memory 2.4.1 Overview The motherboard comes with six Double Data Rate 3 (DDR3) Dual Inline Memory Modules (DIMM) sockets. A DDR3 module has the same physical dimensions as a DDR2 DIMM but is notched differently to prevent installation on a DDR2 DIMM socket. DDR3 modules are developed for better performance with less power consumption.

## [Page 39: Memory Configurations](#)

Brand DIMM (BIOS) KHX16000D3K2/2GN Heat-Sink KINGSTON 2GB (Kit of 2) • • (EPP) Package KHX16000D3K3/3GX Heat-Sink (1333-9-9- KINGSTON 3GB (Kit of 3) 1.65 • • (XMP) Package 9-24) Heat-Sink Gingle 9CAASS37AZZ01D1 9-9-9-24 • • Package ASUS P6T Deluxe V2 2-13...

[Page 40](#) P6T Deluxe V2 Motherboard Qualified Vendors Lists (QVL) DDR3-1866MHz capability DIMM socket support Chip Timing (Optional) Vendor Part No. Size Chip NO. Voltage Brand DIMM (BIOS) KHX14900D3K3/3GX KINGSTON Heat-Sink Package (1333-9-9-9-24) 1.65 • • (XMP) (Kit of 3) Super CL8-8-8-24 W1866UX2GB Heat-Sink Package •...

[Page 41](#) Patriot PVT36G1600ELK 1.65 • • • (kit of 3) Package (1066-7-7-7-20) 9-9-9-24 MFADR401PA0102 SAMSUNG K4B1G08460 • • • (1333-9-9-9-24) BoxP/N: Heat-Sink 7-7-7-21 1.75- Team TXD32048M1600HC7DC • • • (kit of 2) Package (1333-8-8-824) 1.85 (TXD31024M1600HC7) ASUS P6T Deluxe V2 2-15...

[Page 42](#) 1800MHz or above) support. • According to Intel spec definition, DDR3-1600 is supported for one DIMM per channel only. ASUS exclusively provides two DDR3-1600 DIMM support for each memory channel. P6T Deluxe V2 Motherboard Qualified Vendors Lists (QVL) DDR3-1333MHz capability...

[Page 43](#) • • • (1337-7-7-7-20) CL9-9-9-24 Patriot PVT33G1333ELK Heat-Sink Package 1.65 • • • (kit of 3) (1066-7-7-7-20) CL9-9-9-24 Patriot PVT36G1333ELK Heat-Sink Package 1.65 • (kit of 3) (1066-7-7-7-20) MFACR322LA0105 PQC3648S15R (1333-9-9-9-24) • • • • ASUS P6T Deluxe V2 2-17...

[Page 44](#) C1) and the black slot A2 as one set of Triple-channel memory configuration. D\*: Supports six (6) modules inserted into both the orange slots and the • black slots as two set of Triple-channel memory configuration. Visit the ASUS website for the latest QVL. 2-18 Chapter 2: Hardware information...

## [Page 45: Installing A Dimm](#)

DIMM. DIMM notch Support the DIMM lightly with your fingers when pressing the retaining clips. The DIMM might get damaged when it flips out with extra force. Remove the DIMM from the socket. ASUS P6T Deluxe V2 2-19...

## [Page 46: 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 47: Interrupt Assignments](#)

--- SATA controller 1 --- shared --- SATA controller 2 --- shared --- Audio Azalia --- shared --- ASUS P6T Deluxe V2 2-21...

## [Page 48: 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. Refer to the figure below for the location of the slot. 2.5.5 PCI Express x4 slot This motherboard supports PCI Express x4 network cards, SCSI cards and other cards that comply with the PCI Express specifications.

[Page 49](#) We recommend that you provide sufficient power when running CrossFireX™ or SLI™ mode. See page 2-36 for details. • Connect a chassis fan to the motherboard connector labeled CHA\_FAN1/2/3 when using multiple graphics cards for better thermal environment. See page 2-34 for details. ASUS P6T Deluxe V2 2-23...

## [Page 50: 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 passwords.

[Page 51](#) CPU permanently. We recommend you install the DIMMs with the voltage requirement below 1.65V. • The system may need a better cooling system (for example, a water-cooling system) to work stably under high voltage settings. ASUS P6T Deluxe V2 2-25...

## [Page 52: Onboard Switches](#)

Onboard switches Onboard switches allow you to fine-tune performance when working on a bare or open-case system. This is ideal for overclockers and gamers who continually change settings to enhance system performance. Power-on switch Press the power-on switch to wake/power up the system. Reset switch Press the reset switch to reboot the system.

## [Page 53: Connectors](#)

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, 6-channel, and 8-channel configuration, the function of this port becomes Front Speaker Out. ASUS P6T Deluxe V2 2-27...

[Page 54](#) 10. Microphone port (pink). This port connects a microphone. 11. Side Speaker Out port (gray). This port connects the side speakers in an 8-channel audio configuration. Refer to the audio configuration table below for the function of the audio ports in 2, 4, 6, or 8-channel configuration.

## [Page 55: Internal Connectors](#)

This connector supports a Trusted Platform Module (TPM) system, which can securely store keys, digital certificates, passwords, and data. A TPM system also helps enhance network security, protects digital identities, and ensures platform integrity. The TPM module is purchased separately. ASUS P6T Deluxe V2 2-29...

[Page 56](#) IDE connector (40-1 pin PRI\_EIDE) 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. Connect the blue connector to the motherboard's IDE connector, then select one of the following modes to configure your device.

[Page 57](#) Windows XP or later version. ® When using hot-plug and NCQ, set the Configure SATA as in the BIOS to • [AHCI]. See section 3.3.6 Storage Configuration for details. ASUS P6T Deluxe V2 2-31...

[Page 58](#) If your chassis supports front panel USB ports, you can attach a front panel USB cable to these connectors. Connect the USB cable to ASUS Q-Connector (USB, blue) first, and then install the Q-Connector (USB) to the USB connector onboard.

[Page 59](#) Never connect a USB cable to the IEEE 1394a connector. Doing so will damage the motherboard! You can attach a FireWire/1394 cable to this connector if your chassis supports the front panel IEEE1394 port. ASUS P6T Deluxe V2 2-33...

[Page 60](#) These are not jumpers! Do not place jumper caps on the fan connectors! • Only the CPU-FAN and CHA-FAN 1-3 connectors support the ASUS Advanced Q-Fan feature. • If you install two or more VGA cards, we recommend that you plug the rear chassis fan cable to the motherboard connector labeled CHA\_FAN2 or CHA\_FAN3 for better thermal environment.

## [Page 61: Chassis Intrusion Connector](#)

Front Panel Type item in the BIOS is set to [HD Audio]. If you want to connect an AC' 97 front panel audio module to this connector, set the item to [AC97]. See page 3-29 or details. ASUS P6T Deluxe V2 2-35...

[Page 62](#) • If you are uncertain about the minimum power supply requirement for your system, refer to the Recommended Power Supply Wattage Calculator at

<http://support.asus.com/PowerSupplyCalculator/PSCalculator.aspx?SLanguage=en-us> for details. • If you want to use two or more high-end PCI Express x16 cards, use a PSU with 1000 W power or above to ensure the system stability.

[Page 63](#) 12. Digital audio connector (4-1 pin SPDIF) This connector is for an additional Sony/Philips Digital Interface (S/PDIF) port(s). If you are using ASUS HDMI-equipped graphics card, connect the HDMI card to this connector with a S/PDIF out cable. The S/PDIF out cable are purchased separately.

### [Page 64: System Panel Connector](#)

13. System panel connector (20-8 pin PANEL) This connector supports several chassis-mounted functions. • 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 65](#) ASUS Q-Connector (system panel) You can use the ASUS Q-Connector to connect/disconnect chassis front panel cables in a few steps. Refer to the instructions below to install the ASUS Q-Connector. Connect the front panel cables to the ASUS Q-Connector. Refer to the labels on the Q-Connector...

### [Page 66: Installing The Additional Heatsink Fan](#)

Installing the additional heatsink fan You can install an additional 40 mm x 40 mm system fan (purchased separately) on the Northbridge heatsink for better cooling performance. Follow the instructions below to install the system fan. Locate the two screws on the Northbridge heatsink, as shown in the right figure, and then remove the two screws from the heatsink.

### [Page 67: 2.10 Starting Up For The First Time](#)

No VGA detected short beeps One continuous beep followed by four Hardware component failure short beeps At power on, hold down the <Delete> key to enter the BIOS Setup. Follow the instructions in Chapter 3. ASUS P6T Deluxe V2 2-41...

### [Page 68: 2.11 Turning Off The Computer](#)

2.11 Turning off the computer 2.11.1 Using the OS shut down function If you are using Windows Vista™: ® Click the Start button then select Shut Down. The power supply should turn off after Windows shuts down. ® If you are using Windows ®...

### [Page 69: Chapter 3: 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](#) Managing and updating your BIOS .....3-1 BIOS setup program .....3-9 Main menu ..... 3-12 Ai Tweaker ..... 3-17 Advanced menu ..... 3-25 Power menu .....3-32 Boot menu ..... 3-36 Tools menu ..... 3-40 Exit menu .....3-44 ASUS P6T Deluxe V2...

### [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 DVD when the BIOS file fails or gets corrupted.)

[Page 72](#) 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 the Select the ASUS FTP site nearest...

[Page 73](#) To update the BIOS through a BIOS file: 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 a file option from the drop-down menu, then click Next.

## [Page 74: Asus Ez Flash 2 Utility](#)

3.1.2 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 75: Creating A Bootable Floppy Disk](#)

Right-click Floppy Disk Drive then click Format to display the Format 3 1/2 Floppy dialog box . d. Select the Create an MS-DOS startup disk check box. e. Click Start. Copy the original or the latest motherboard BIOS file to the bootable floppy disk. ASUS P6T Deluxe V2...

## [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 3: BIOS setup...

[Page 77](#) Reboot the system from the hard disk drive. A:\>afudos /iP6TD.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 ..done Reading flash ..done Advance Check ..Erasing flash ..done Writing flash ..done Verifying flash ..done Please restart your computer A:\> ASUS P6T Deluxe V2...

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

3.1.5 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 DVD, 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 P6T Deluxe V2...

## [Page 80: Bios Menu Screen](#)

3.2.1 BIOS menu screen Menu items Menu bar Configuration fields General help BIOS SETUP UTILITY Main Ai Tweaker Advanced Power Boot Tools Exit Use [ENTER], [TAB] System Time [13:51:25] or [SHIFT-TAB] to System Date [Tue 09/16/2008] select a field. Legacy Diskette A [1.44M, 3.5 in.] Language [English] Use [+] or [-] to configure the SATA1 [HDT722516DLA380] System Time. SATA2 [Not Detected] SATA3 [ATAPI DVD DH1] SATA4 [Not Detected] SATA5 [Not Detected] SATA6...

## [Page 81: Menu Items](#)

Up/Down arrow keys or <Page Up> /<Page Scroll bar Down> keys to display the other items on the screen. 3.2.9 General help At the top right corner of the menu screen is a brief description of the selected item. ASUS P6T Deluxe V2 3-11...

## [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 3.2.1 BIOS menu screen for information on the menu screen items and how to navigate through them. BIOS SETUP UTILITY Main Ai Tweaker Advanced Power Boot Tools Exit Use [ENTER], [TAB]...

## [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] Allows you to select the data transfer mode. Configuration options: [Auto] [0] [1] [2] [3] [4] ASUS P6T Deluxe V2 3-13...

## [Page 84: Storage 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 Self-Monitoring, Analysis, and Reporting Technology. Configuration options: [Auto] [Disabled] [Enabled] 32Bit Data Transfer [Enabled]

Enables or disables 32-bit data transfer.

### [Page 85: Ahci Configuration](#)

SATA Port1 [Auto] Allows you to select the type of device connected to the system. Configuration options: [Auto] [Not Installed] SMART Monitoring [Enabled] Allows you to set the Self-Monitoring, Analysis and Reporting Technology. Configuration options: [Disabled] [Enabled] ASUS P6T Deluxe V2 3-15...

### [Page 86: System Information](#)

3.3.8 System Information This menu gives you an overview of the general system specifications. The BIOS automatically detects the items in this menu. BIOS SETUP UTILITY Main Bios Information Version : 0309 Build Date : 09/15/08 Processor Type : Genuine Intel(R) CPU @ 2.67GHz Speed : 2689MHz System Memory Usable Size : 1016MB Select Screen Select Item F1 General Help F10 Save and Exit ESC Exit v02.61 (C)Copyright 1985-2008, American Megatrends, Inc.

### [Page 87: Ai Tweaker Menu](#)

Overclocks DRAM frequency by adjusting BCLK frequency. X.M.P. If you install memory module(s) supporting the eXtreme Memory Profile (X.M.P.) Technology, choose this item to set the profile(s) supported by your memory module(s) for optimizing the system performance. ASUS P6T Deluxe V2 3-17...

### [Page 88: Cpu Ratio Setting](#)

The configuration options for the following sub-item vary depending on the DIMMs you install on the motherboard. DRAM O.C. Profile [DDR3-1339MHz] This item appears only when you set the Ai Overclock Tuner item to [D.O.C.P.] and allows you to select a DRAM O.C. profile, which applies different settings to DRAM frequency, DRAM timing and DRAM voltage.

### [Page 89: Dram Frequency](#)

DRAM REF Cycle Time [Auto] Configuration options: [Auto] [30 DRAM Clock] [36 DRAM Clock] [48 DRAM Clock] [60 DRAM Clock] [72 DRAM Clock] [82 DRAM Clock] [88 DRAM Clock] [90 DRAM Clock] [100 DRAM Clock] [110 DRAM Clock] ASUS P6T Deluxe V2 3-19...

[Page 90](#) DRAM WRITE Recovery Time [Auto] Configuration options: [Auto] [1 DRAM Clock] - [15 DRAM Clock] DRAM READ to PRE Time [Auto] Configuration options: [Auto] [1 DRAM Clock] - [15 DRAM Clock] DRAM FOUR ACT WIN Time [Auto] Configuration options: [Auto] [1 DRAM Clock] - [31 DRAM Clock] DRAM WRITE to READ Delay [Auto] Configuration options: [Auto] [1 DRAM Clock] -...

### [Page 91: Cpu Voltage](#)

The value [1.90000V] of the QPI/DRAM Core Voltage item is supported only if the OV\_QPI\_DRAM jumper is enabled. Otherwise the maximum voltage supported is [1.70000V]. See 2. CPU / DRAM Bus / QPI DRAM overvoltage setting on page 2-25 for details. ASUS P6T Deluxe V2 3-21...

### [Page 92: Ioh Voltage](#)

3.4.10 IOH Voltage [Auto] Allows you to set the I/O Hub (IOH) voltage. The values range from 1.10V to 1.70V with a 0.02V interval. 3.4.11 IOH PCIE Voltage [Auto] Allows you to set the IOH PCIE voltage. The values range from 1.50V to 2.76V with a 0.02V interval.

### [Page 93: Dram Data Ref Voltage On Cha/B/C](#)

3.4.19 CPU Clock Skew [Auto] Adjusting this item may help enhancing BCLK overclocking ability. You may need to adjust the NB Clock Skew item at the same time. Configuration options: [Auto] [Normal] [Delay 100ps]-[Delay 1500ps] ASUS P6T Deluxe V2 3-23...

### [Page 94: Cpu Spread Spectrum](#)

3.4.20 CPU Spread Spectrum [Auto] Set to [Disabled] to enhance BCLK overclocking ability or [Auto] for EMI control. Configuration options: [Auto] [Disabled] 3.4.21 IOH Clock Skew [Auto] Adjusting this item may help enhancing BCLK overclocking ability. You may need to adjust the CPU Clock Skew item at the same time. Configuration options: [Auto] [Normal] [Delay 100ps]-[Delay 1500ps] 3.4.22 PCIE Spread Spectrum [Auto]...

## [Page 95: Advanced Menu](#)

[Enabled] F1 General Help Adjacent Cache Line Prefetch [Enabled] F10 Save and Exit Intel(R) Virtualization Tech [Enabled] ESC Exit CPU TM function [Enabled] v02.61 (C)Copyright 1985-2008, American Megatrends, Inc. Scroll down to display the following items: Execute-Disable Bit [Enabled] Intel(R) HT Technology [Enabled] Active Processor Cores [All] A20M [Disabled] Intel(R) SpeedStep(TM) Tech [Enabled] Intel(R) TurboMode tech [Enabled] Intel(R) C-STATE Tech [Disabled] v02.61 (C)Copyright 1985-2008, American Megatrends, Inc. ASUS P6T Deluxe V2 3-25...

[Page 96](#) CPU Ratio Setting [Auto] Allows you to adjust the ratio between CPU Core Clock and BCLK Frequency. Use the <+> and <-> keys to adjust the value. Configuration options: [Auto] [12.0] [13.0] [14.0] [15.0] [16.0] [17.0] [18.0] [19.0] [20.0] C1E Support [Enabled] Allows you to enable or disable Enhanced Halt State support.

[Page 97](#) This item appears only when you set the Intel(R) C-STATE Tech item to [Enabled]. We recommend that you set this item to [Auto] for BIOS to automatically detect the C-State mode supported by your CPU. Configuration options: [Auto] [C1] [C3] [C6] [C7] ASUS P6T Deluxe V2 3-27...

## [Page 98: Chipset](#)

3.5.2 Chipset The Chipset menu allows you to change the advanced chipset settings. Select an item then press <Enter> to display the sub-menu. BIOS SETUP UTILITY Advanced Advanced Chipset Settings Configure North Bridge features. WARNING: Setting wrong values in below sections may cause system to malfunction. North Bridge Configuration Intel VT-d Configuration NorthBridge Chipset Configuration BIOS SETUP UTILITY Advanced Select PCIE Slot#2...

## [Page 99: Onboard Device Configuration](#)

LAN Boot ROM [Disabled] This item appears only when you enable the previous item. Configuration options: [Disabled] [Enabled] Onboard 1394 Controller [Enabled] Allows you to enable or disable the onboard IEEE 1394a controller. Configuration options: [Enabled] [Disabled] ASUS P6T Deluxe V2 3-29...

## [Page 100: Usb Configuration](#)

3.5.4 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 Enables support for legacy USB. AUTO USB Devices Enabled: option disables 1 Mouse legacy support if no USB devices are USB Functions [Enabled] connected. USB 2.0 Controller [Enabled] USB 2.0 Controller Mode...

## [Page 101: Pciinp](#)

When set to [NO], BIOS configures all the devices in the system. When set to [YES] and if you install a Plug and Play operating system, the operating system configures the Plug and Play devices not required for boot. Configuration options: [No] [Yes] ASUS P6T Deluxe V2 3-31...

## [Page 102: 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 Ai Tweaker Advanced Power Boot Tools Exit Select the ACPI state Suspend Mode [Auto] used for System Repost Video on S3 Resume [No] Suspend. ACPI 2.0 Support [Disabled] ACPI APIC Support [Enabled] APM Configuration...

## [Page 103: Apm Configuration](#)

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] ASUS P6T Deluxe V2 3-33...

## [Page 104: Hardware Monitor](#)

The following item appears only when you enable the CPU Q-Fan Control item. CPU Fan Profile [Standard] Allows you to set the appropriate performance level of the ASUS Q-Fan. When set to [Standard], the CPU fan automatically adjusts depending on the CPU temperature.

[Page 105](#) Chassis Fan Profile [Standard] Allows you to set the appropriate performance level of the ASUS Q-Fan. When set to [Standard], the chassis fan automatically adjusts depending on the chassis temperature. Set this item to [Silent] to minimize fan speed for quiet chassis fan operation, or [Turbo] to achieve maximum chassis fan speed.

### [Page 106: Boot Menu](#)

Boot menu The Boot menu items allow you to change the system boot options. Select an item then press <Enter> to display the sub-menu. BIOS SETUP UTILITY Main Ai Tweaker Advanced Power Boot Tools Exit Specifies the Boot Boot Settings Device Priority Boot Device Priority sequence. Boot Settings Configuration A virtual floppy disk Security drive (Floppy Drive B: ) may appear when you...

### [Page 107: 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 MyLogo 3 feature. AddOn ROM Display Mode [Force BIOS] Sets the display mode for option ROM.

### [Page 108: Security](#)

3.7.3 Security The Security menu items allow you to change the system security settings. Select an item then press <Enter> to display the configuration options. 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 Change User Password Select Screen Select Item Enter Change F1 General Help F10 Save and Exit ESC Exit v02.61 (C)Copyright 1985-2008, American Megatrends, Inc.

### [Page 109: Change User Password](#)

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 P6T Deluxe V2 3-39...

### [Page 110: Tools Menu](#)

3.8.1 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 3-4, section 3.1.2 for details.

### [Page 111: Express Gate](#)

3.8.2 Express Gate [Enabled] Allows you to enable or disable the ASUS Express Gate feature. The ASUS Express Gate feature is a unique instant-on environment that provides quick access to the Internet browser and Skype. Refer to section 4.3.10 ASUS Express GATE SSD for details.

### [Page 112: Asus O.c. Profile](#)

3.8.3 ASUS O.C. Profile This item allows you to store or load multiple BIOS settings. BIOS SETUP UTILITY Tools O.C. PROFILE Configuration Save BIOS settings O.C. Profile 1 Status : Default-Profile to Profile 1 O.C. Profile 2 Status : Default-Profile Add Your CMOS Profile.

### [Page 113: Ai Net 2](#)

Ai Net 2 BIOS SETUP UTILITY Tools Check Marvell LAN AI NET 2 cable during POST. Pair Status Length Check Marvell LAN cable [Disabled] v02.61 (C)Copyright 1985-2008, American Megatrends, Inc. Check Marvell LAN Cable [Disabled] Enables or disables checking of the Marvell LAN cable during the Power-On Self-Test (POST). Configuration options: [Disabled] [Enabled] ASUS P6T Deluxe V2 3-43...

### [Page 114: 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. BIOS SETUP UTILITY Main Ai Tweaker Advanced Power Boot Tools Exit Exit Options Exit system setup after saving the Exit & Save Changes changes. Exit & Discard Changes Discard Changes F10 key can be used for this operation.

## [Page 115: Chapter 4: Software Support](#)

This chapter describes the contents of the support DVD that comes with the motherboard package and the software. Software support...

[Page 116](#) Chapter summary Installing an operating system ..... 4-1 Support DVD information .....4-1 Software information .....4-9 RAID configurations .....4-44 Creating a RAID driver disk .....4-53 ASUS P6T Deluxe V2...

## [Page 117: Installing An Operating System](#)

The contents of the support DVD are subject to change at any time without notice. Visit the ASUS website([www.asus.com](http://www.asus.com)) for updates. 4.2.1 Running the support DVD Place the support DVD to the optical drive. The DVD automatically displays the Drivers menu if Autorun is enabled in your computer.

## [Page 118: Drivers Menu](#)

Installs the Marvell 61xx SATA driver. ® ASUS TurboV Installs ASUS TurboV, the advanced overclocking tool for extreme O.C. record. ASUS EPU-6 Engine Installs the ASUS EPU-6 Engine driver and utility. ASUS Express Gate SSD Installs the ASUS Express Gate SSD update application.

## [Page 119: Utilities Menu](#)

WinZip 11 Click to return to the previous page ASUS InstAll - Installation Wizard for Utilities Installs all of the utilities through the Installation Wizard. Marvell Yukon VCT Application Installs Marvell Yukon Virtual Cable Tester Driver. Marvell RAID Utility Installs Marvell RAUD Utility.

[Page 120](#) 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). ASUS PC Probe II This smart utility monitors the fan speed, CPU temperature, and system voltages, and alerts you of any detected problems.

## [Page 121: Make Disk Menu](#)

Make disk menu The Make disk menu contains items to create the Intel ICH10R or Marvell 61xx ® driver disk. Intel ICH10R 32/64 bit RAID/AHCI Driver Disk Allows you to create an ICH10R 32/64bit RAID/AHCI driver disk. ASUS P6T Deluxe V2...

## [Page 122: Manual Menu](#)

Reader from the Utilities menu before opening a user manual ® ® file. 4.2.6 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. Chapter 4: Software support...

## [Page 123: Other Information](#)

DVD. Click an icon to display the specified information. Motherboard Info Displays the general specifications of the motherboard. ASUS TurboV ASUS EPU 6-Engine ASUS Express Gate SSD Browse this DVD Displays the support DVD contents in graphical format. ASUS P6T Deluxe V2...

## [Page 124: 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 DVD in text format. Chapter 4: Software support...

## [Page 125: Software Information](#)

4.3.1 ASUS MyLogo 2™ The ASUS MyLogo 2™ 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 DVD.

[Page 126](#) 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 127: Ai Net2](#)

LAN cable(s) connected to the LAN port(s). • If you want the system to check the status of the LAN cable before entering the OS, enable the item Post Check LAN Cable in the BIOS Setup. ASUS P6T Deluxe V2 4-11...

## [Page 128: Asus Pc Probe Ii](#)

To launch the PC Probe II from the Windows ® > 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 ®...

[Page 129](#) When displayed, the monitor panel for that sensor also turns red. Refer to the Monitor panels section for details. Preference You can customize the application using the Preference section in the main window. Click the box before each preference to activate or deactivate. ASUS P6T Deluxe V2 4-13...

[Page 130](#) Hardware monitor panels The hardware monitor panels display the current value of a system sensor such as fan rotation, CPU temperature, and voltages. The hardware monitor panels come in two display modes: hexagonal (large) and rectangular (small). When you check the Enable Monitoring Panel option from the Preference section, the monitor panels appear on your computer's desktop.

[Page 131](#) DMI browser Click to display the DMI (Desktop Management Interface) browser. This browser displays various desktop and system information. Click the plus sign (+) before DMI Information to display the available information. ASUS P6T Deluxe V2 4-15...

[Page 132](#) PCI browser Click to display the PCI (Peripheral Component Interconnect) browser. This browser provides information on the PCI devices installed on your system. Click the plus sign (+) before the PCI Information item to display available information. Usage The Usage browser displays real-time information on the CPU, hard disk drive space, and memory usage.

[Page 133](#) The Preference tab allows you to customize sensor alerts, or change the temperature scale. Loads the default Loads your saved threshold values for Cancels or configuration each sensor ignores your changes Applies your Saves your changes configuration ASUS P6T Deluxe V2 4-17...

## [Page 134: Asus Ai Suite](#)

4.3.4 ASUS AI Suite ASUS AI Suite allows you to launch EPU—6 Engine, AI Nap, Fan Xpert, and TurboV utilities easily. Installing AI Suite To install AI Suite on your computer: Place the support DVD to the optical drive. The Drivers installation tab appears if your computer has an enabled Autorun feature.

[Page 135](#) 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. ASUS P6T Deluxe V2 4-19...

## [Page 136: Asus Ai Nap](#)

4.3.5 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 DVD, 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 137: Asus Fan Xpert](#)

4.3.6 ASUS Fan Xpert Asus Fan Xpert intelligently allows you to adjust both the CPU and chassis fan speeds according to different ambient temperatures caused by different climate conditions in different geographic regions and your PC's system loading. The built-in variety of useful profiles offer flexible controls of fan speed to achieve a quiet and cool environment.

## [Page 138: Fan Profile Modes](#)

Fan profile modes Disable: Select this mode to disable the Fan Xpert function. • Standard: This mode makes the fan adjust speed in moderate pattern. • Silent: This mode minimizes fan speed

for quiet fan operation. • Turbo: This mode boosts the fan to achieve maximal fan speed for the best •...

### [Page 139: Asus Epu-6 Engine](#)

4.3.7 ASUS EPU-6 Engine ASUS EPU-6 Engine is an energy-efficient tool that satisfies different computing needs. This utility provides four modes that you can select to enhance system performance or save power. Selecting Auto mode will have the system shift modes automatically according to current system status.

### [Page 140: Engine Main Menu](#)

6 Engine main menu Displays CPU Power and Total CPU Energy Saving Lights up when power saving engine is activated Displays the following message if no VGA power saving engine is detected. \*Shifts between Displays the the display of Total amount of CO2 and Current CO2 reduced...

### [Page 141: Advanced Settings Menu](#)

• CPU Loadline: Sets up the CPU loadline to manage CPU power saving. • Light: Saves CPU power to the minimum level. • Heavy: Saves CPU power to the highest level. ASUS P6T Deluxe V2 4-25...

[Page 142](#) Idle Time mins-After 5 mins-After 5 mins-After 5 mins-After 5 hours hours hours hours The values of the previous table are subject to change at any time without notice. Visit the ASUS website (www.asus.com) for updates. 4-26 Chapter 4: Software support...

### [Page 143: Asus TurboV](#)

• For system stability, all changes made in ASUS TurboV will not be saved to BIOS settings and will not be kept on the next system boot. Use the Save Profile function to save your customized overclocking settings and manually load the profile after Windows starts.

[Page 144](#) Advanced settings menu Click More Setting from the TurboV main screen to display detailed configuration options for CPU/chip voltage, DRAM Reference voltage, and CPU ratio. Advance Mode Advanced CPU and DRAM voltage settings CPU Ratio Mode Adjusts CPU core ratio Displays CPU frequency •...

### [Page 145: Soundmax ® High Definition Audio Utility](#)

The Volume tab allows you to adjust the individual volume of playback and recording devices. You can also set the default audio output and input device in this tab. Drag to adjust device volume Click to show more devices Click to set the default device ASUS P6T Deluxe V2 4-29...

[Page 146](#) Setup The Setup tab allows you to adjust multi-speaker settings. Click speaker to test individual speaker volume Drag slider to adjust individual speaker volume Click to swap center/subwoofer output in 5.1 / 7.1 Surround mode Click to test the volume of all individual speakers Click to choose a multi-speaker configuration...

[Page 147](#) The Recording Experience tab allows you to calibrate microphone settings for high quality recording effects. Choose a desired enhancement Click to start microphone calibration Click to boost microphone volume Advanced The Advanced tab allows you to configure detailed utility settings. ASUS P6T Deluxe V2 4-31...

[Page 148](#) SoundMAX audio utility for Windows XP™ Audio Setup Wizard Jack configuration This screen helps you configure your By clicking the icon from the computer's audio ports, depending on SoundMAX control panel, you can ® the audio devices you have installed. easily configure your audio settings.

### [Page 149: Listening Environment Options](#)

Click the General tab to choose your Click the Listening Environment tab playback and recording devices, to set up your speaker, acoustic enable/disable the AudioESP™ environment, and enable/disable the feature, and enable/disable digital Virtual Theater Surround function. output. ASUS P6T Deluxe V2 4-33...

## [Page 150: Microphone Options](#)

- The directional Array and Speaker Phone are purchased separately and function only when working with the ASUS Array Mic.
- If you are using Windows Vista, you have to manually enable the directional Array and Speaker Phone function.

## [Page 151: Asus Express Gate Ssd](#)

4.3.10 ASUS Express Gate SSD ASUS Express Gate SSD is an instant-on environment that gives you quick access to web, Skype, and viewing your pictures. Within a few seconds of powering on your computer, you will be at the Express Gate SSD menu where you can start the web browser, Skype, or other Express Gate applications.

[Page 152](#) Once inside the Express Gate SSD environment, click on the icons on the LaunchBar, by default at bottom of the screen, to launch or switch between softwares. You can re-arrange, re-size and move windows. Bring a window to the foreground by clicking within it or by clicking on its corresponding software icon. Re-size a window by dragging any of its four corners.

## [Page 153: Using The Configuration Panel](#)

The first-time Wizard will run again when you enter the Express Gate SSD environment after clearing its settings. Screen Settings: Choose the most optimal screen resolution for your display. • Volume Control: Control the volume for your speaker output, microphone • input, etc. ASUS P6T Deluxe V2 4-37...

## [Page 154: Using The Launchbar](#)

USB drive. If a USB device is detected, the icon contains a green arrow. • ASUS Express Gate supports file uploading and downloading from USB drives only. • Only the image files in JPG, BMP, GIF, and PNG formats can be uploaded from SATA HDDs, ODDs and USB drives.

[Page 155](#) Click to change LaunchBar options (auto-hide, docking position, etc). Click to show the "ASUS Utility" panel (if supported). Click to show "About Express Gate SSD". Click to open Express Gate SSD Help. Click to bring up power options window to boot to OS, restart or power down.

[Page 156](#) Make the proper network configurations. Each network interface is enabled immediately when you check the box next to it. • If you use a network cable connected to a home router (which is then connected to your DSL/cable modem), enable every LAN port(s). Express Gate SSD will automatically use whichever port is connected.

## [Page 157: Using The Photo Manager](#)

Shows user- created image album(s) Image control bar ASUS Express Gate supports HDDs connected to motherboard chipset- controlled onboard SATA ports only. All onboard extended SATA ports and external SATA ports are NOT supported. ASUS P6T Deluxe V2 4-41...

[Page 158](#) New versions of the Express Gate software will be released regularly, adding refinements or new applications. You can find original version of the software on the support DVD or download new versions from the ASUS support website. Express Gate software is released as an image file with .DFI extension.

[Page 159](#) Clearing the user data is useful in the rare case where corrupt settings prevent the Express Gate environment from launching properly. The first time wizard will run again when you enter the Express Gate environment after clearing its settings. ASUS P6T Deluxe V2 4-43...

## [Page 160: Raid Configurations](#)

RAID configurations The motherboard comes with the Intel ICH10R Southbridge controller that ® supports RAID 0, RAID 1, RAID 10, and RAID 5 for six independent Serial ATA channels. 4.4.1 RAID definitions RAID 0 (Data striping) optimizes two identical hard disk drives to read and write data in parallel, interleaved stacks.

## [Page 161: Installing Serial Ata Hard Disks](#)

Select [RAID] from the Configure SATA as item options, then press <Enter>. Save your changes, then exit the BIOS Setup. Refer to the system or the motherboard user guide for details on

entering and navigating through the BIOS Setup. ASUS P6T Deluxe V2 4-45...

### [Page 162: Intel Matrix Storage Manager Option Rom Utility](#)

Intel Matrix Storage Manager option ROM utility ® The Intel ® Matrix Storage Manager Option ROM utility allows you to create RAID 0, RAID 1, RAID 10 (RAID 0+1), and RAID 5 set(s) from Serial ATA hard disk drives that are connected to the Serial ATA connectors supported by the Southbridge. To enter the Intel ®...

[Page 163](#) Port Drive Model Serial # Size Status 0 XXXXXXXXXXXX XXXXXXXX XX.XGB Non-RAID Disk 1 XXXXXXXXXXXX XXXXXXXX XX.XGB Non-RAID Disk 2 XXXXXXXXXXXX XXXXXXXX XX.XGB Non-RAID Disk 3 XXXXXXXXXXXX XXXXXXXX XX.XGB Non-RAID Disk Select 2 to 6 disks to use in creating the volume. [↑↓]-Previous/Next [SPACE]-SelectsDisk [ENTER]-Done Use the up/down arrow key to highlight a drive, and then press <Space> to select. A small triangle marks the selected drive. Press <Enter> after completing your selection. ASUS P6T Deluxe V2 4-47...

[Page 164](#) Use the up/down arrow key to select the stripe size for the RAID 0 array, and then press <Enter>. The available stripe size values range from 4 KB to 128 KB. The default stripe size is 128 KB. We recommend a lower stripe size for server systems, and a higher stripe size for multimedia computer systems used mainly for audio and video editing.

### [Page 165: Creating A Raid 1 Set \(Mirrored\)](#)

Press <Enter> when the Create Volume item is highlighted. The following 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 main menu or <N> to go back to Create Volume menu. ASUS P6T Deluxe V2 4-49...

[Page 166](#) Creating a RAID 10 set (RAID 0+1) To create a RAID 10 set: From the utility main menu, select 1. Create RAID Volume and press <Enter>. The following screen appears. Intel(R) Matrix Storage Manager option ROM v8.0.0.1027 ICH10R wRAID5 Copyright(C) 2003-08 Intel Corporation. All Rights Reserved. [ CREATE VOLUME MENU ] Name: Volume10 RAID Level: RAID10(RAID0+1) Disks: Select Disks Strip Size: 64KB Capacity: XXX GB...

[Page 167](#) [ HELP ] Enter a unique volume name that has no special characters and is 16 characters or less. [↑↓]-Change [TAB]-Next [ESC]-Previous Menu [Enter]-Select Enter a name for the RAID 5 set and press <Enter>. When the RAID Level item is highlighted, press the up/down arrow key to select RAID 5(Parity), and then press <Enter>. ASUS P6T Deluxe V2 4-51...

[Page 168](#) The Disks item is highlighted, press <Enter> to select the hard disk drives to configure as RAID. The following screen appears. [ SELECT DISKS ] Port Drive Model Serial # Size Status 0 XXXXXXXXXXXX XXXXXXXX XX.XGB Non-RAID Disk 1 XXXXXXXXXXXX XXXXXXXX XX.XGB Non-RAID Disk 2 XXXXXXXXXXXX XXXXXXXX XX.XGB Non-RAID Disk 3 XXXXXXXXXXXX XXXXXXXX XX.XGB Non-RAID Disk Select 3 to 6 disks to use in creating the volume. [↑↓]-Previous/Next [SPACE]-SelectsDisk [ENTER]-Done Use the up/down arrow key to highlight the drive you want to set, and then press <Space>...

### [Page 169: Creating A Raid Driver Disk](#)

Insert a floppy disk into the floppy disk drive or connect a USB flash disk if you are using Windows Vista OS. Follow succeeding screen instructions to complete the process. Write-protect the floppy disk to avoid computer virus infection. ASUS P6T Deluxe V2 4-53...

[Page 170](#) To install the RAID driver in Windows XP: During the OS installation, the system prompts you to press the <F6> key to install third-party SCSI or RAID driver. Press <F6> then insert the floppy disk with RAID driver into the floppy disk drive.

### [Page 171: Chapter 5: Multiple Gpu Technology Support](#)

This chapter describes how to install and configure multiple ATI CrossFireX™ and ® NVIDIA SLI™ graphics cards. Multiple GPU technology support...

[Page 172](#) Chapter summary CrossFireX™ technology ..... 5-1 ® Installing CrossFireX™ graphics cards .....5-2 Software information .....5-4 NVIDIA SLI™ technology .....5-6

### [Page 173: Ati ® Crossfirex™ Technology](#)

For Windows XP, go to Control Panel > Add/Remove Programs. For Windows Vista, go to Control Panel > Programs and Features. Select your current graphics card driver/s. For Windows XP, select Add/Remove. For Windows Vista, select Uninstall. Turn off your computer. ASUS P6T Deluxe V2...

### [Page 174: Installing Crossfirex™ Graphics Cards](#)

Installing CrossFireX™ graphics cards • Ensure that your power supply unit (PSU) can provide at least the minimum power required by your system. • We recommend that you install additional chassis fans for better thermal environment. • Install only the identical CrossFireX-ready graphics cards that are ATI ®...

### [Page 175: Triple Crossfirex Installation](#)

Ensure that the connectors are firmly in place. Connect three independent auxiliary power sources from the power supply to the three graphics cards separately. Connect a VGA or a DVI cable to the graphics card. ASUS P6T Deluxe V2...

### [Page 176: Software Information](#)

Software information 5.3.1 Installing the device drivers Refer to the documentation that came with your graphics card package to install the device drivers. • Ensure that your PCI Express graphics card driver supports the ATI ® CrossFireX™ technology. Download the latest driver from the AMD website (www.amd.com).

[Page 177](#) GPU. Select Enable CrossFireX. From the list, select the appropriate GPU combination to apply the CrossFireX technology. Click Apply, and then click OK to exit the window. ASUS P6T Deluxe V2...

### [Page 178: Nvidia ® Sli™ Technology](#)

NVIDIA SLI™ Technology ® The motherboard supports the NVIDIA SLI™ (Scalable Link Interface) technology ® that allows you to install up to two identical PCI Express™ x16 graphics cards. Follow the installation procedures in this section. 5.4.1 Requirements • In SLI mode, you should have two identical SLI-ready graphics cards that are NVIDIA certified.

### [Page 179: Installing The Device Drivers](#)

(A) Right click on the empty space of the Windows ® desktop and select NVIDIA Control Panel. The NVIDIA Control Panel window appears (See Step B5 on page 5-9). (B1) If you cannot see the NVIDIA Control Panel item in step (A), select Personalize. ASUS P6T Deluxe V2...

[Page 180](#) (B2) From the Personalization window, select Display Settings. (B3) From the Display Settings dialog box, click Advanced Settings. (B4) Select the NVIDIA GeForce tab, and then click Start the NVIDIA Control Panel. Chapter 5: Multiple GPU technology support...

[Page 181](#) (B5) The NVIDIA Control Panel window appears. Enabling SLI configuration From the NVIDIA Control Panel window, select Set SLI Configuration. Click Enable SLI and set the display for viewing SLI rendered content. When done, click Apply. ASUS P6T Deluxe V2...

[Page 182](#) 5-10 Chapter 5: Multiple GPU technology support...

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