

Asus A8R-MVP User Manual

Asus computer hardware - motherboard user manual

1

2

Table Of Contents

3

4

5

6

7

8

9

10

11

12

13

14

15

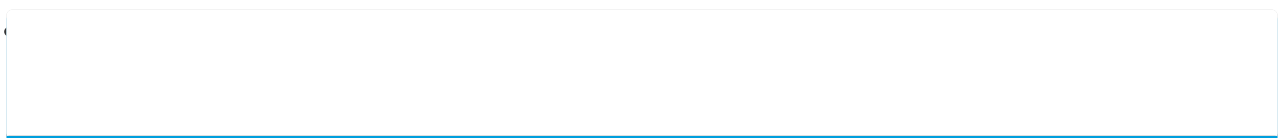
16

17

18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67

68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117

118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150



•

[Table of Contents](#)

•

Bookmarks

Quick Links

[1 Motherboard Overview](#)

[2 Motherboard Layout](#)

[Download this manual](#)

[See also: User Manual](#)



A8R-MVP



Table of Contents

[Next Page](#)

1
2
3
4
5

Related Manuals for Asus A8R-MVP

[Motherboard Asus A8R-MVP User Manual](#)

Motherboard (152 pages)

[Motherboard Asus A8R32-MVP DELUXE User Manual](#)

A8r32-mvp deluxe english edition user's manual (168 pages)

[Motherboard Asus A8V-VM - SE Motherboard - Micro ATX Manual](#)

Motherboard diy troubleshooting guide (80 pages)

[Motherboard Asus A8N-E User Manual](#)

Asus a8n-e motherboard: user guide (120 pages)

[Motherboard Asus A8N5X User Manual](#)

A8n5x user's manual for english edition (116 pages)

[Motherboard Asus A8V-E SE User Manual](#)

A8v-e se user's manual for english edition (88 pages)

[Motherboard Asus A88XM-A User Manual](#)

A88xm-a user's manual (68 pages)

[Motherboard Asus A88X PRO User Manual](#)

(142 pages)

[Motherboard ASUS A88XM-E User Manual](#)

Motherboard (66 pages)

[Motherboard Asus A88XM-E Manual](#)

(20 pages)

[Motherboard Asus A8AE-LE Amberine User Manual](#)

(18 pages)

[Motherboard Asus A8N-SLI - Motherboard - ATX User Manual](#)

A8n-sli english edition user's manual, version e1947 (162 pages)

[Motherboard Asus A8N-SLI Premium Manual](#)

(182 pages)

[Motherboard Asus A8V User Manual](#)

(122 pages)

[Motherboard Asus A88X-PLUS User Manual](#)

(70 pages)

[Motherboard Asus A88X-PLUS Manual](#)

(19 pages)

Summary of Contents for Asus A8R-MVP

[Page 1](#) A8R-MVP...

[Page 2](#) Product warranty or service will not be extended if: (1) the product is repaired, modified or altered, unless such repair, modification or alteration is authorized in writing by ASUS; or (2) the serial number of the product is defaced or missing.

[Page 3: Table Of Contents](#)

Contents Notices ... vii Safety information ... viii About this guide ... ix A8R-MVP specifications summary ... xi Chapter 1: Chapter 1: Chapter 1: Product introduction Product introduction Product introduction Chapter 1: Chapter 1: Chapter 1: Product introduction Product introduction Welcome!

[Page 28](#) Position the CPU above the socket such that the CPU corner with the gold triangle matches the socket corner with a small triangle. Carefully insert the CPU into the socket until it fits in place. The CPU fits only in one correct orientation. DO NOT force the CPU into the socket to prevent bending the pins and damaging the CPU! When the CPU is in place, push down the socket lever to secure...

[Page 29: Installing The Heatsink And Fan](#)

2.3.2 2.3.2 2.3.2 Installing the heatsink and fan Installing the heatsink and fan Installing the heatsink and fan 2.3.2 2.3.2 Installing the heatsink and fan Installing the heatsink and fan The AMD Athlon™ 64FX/Athlon™ 64/Athlon™ 64 X2/Sempron™ processor requires a specially designed heatsink and fan assembly to ensure optimum thermal condition and performance.

[Page 30](#) Attach one end of the retention bracket to the retention module base. Align the other end of the retention bracket (near the retention bracket lock) to the retention module base. A clicking sound denotes that the retention bracket is in place. Make sure that the fan and heatsink assembly perfectly fits the retention mechanism module...

[Page 31](#) CPU_FAN. A8R-MVP ® A8R-MVP CPU fan connector Do not forget to connect the CPU fan connector! Hardware monitoring errors can occur if you fail to plug this connector. A S U S A 8 R - M V P...

[Page 32: System Memory](#)

Inline Memory Modules (DIMM) sockets. The following figure illustrates the location of the sockets: A8R-MVP ® A8R-MVP 184-pin DDR DIMM sockets C h a n n e l C h a n n e l C h a n n e l...

[Page 33: Memory Configurations](#)

2.4.2 2.4.2 2.4.2 Memory Configurations Memory Configurations Memory Configurations 2.4.2 2.4.2 Memory Configurations Memory Configurations You may install 256 MB, 512 MB, and 1 GB unbuffered ECC/non-ECC DDR DIMMs into the DIMM sockets using the memory configurations in this section. •...

[Page 34](#) C C C C C - Supports 4 modules inserted into both the blue and black slots as two pairs of Dual-channel memory configuration S S - Single-sided D S - Double-sided Visit the ASUS website (www.asus.com) for the latest Qualified Vendors List. 2 - 1 2 2 - 1 2...

[Page 35: Installing A Ddr Dimm](#)

2.4.3 2.4.3 2.4.3 Installing a DDR DIMM Installing a DDR DIMM Installing a DDR DIMM 2.4.3 2.4.3 Installing a DDR DIMM Installing a DDR DIMM Make sure to unplug the power supply before adding or removing DIMMs or other system components. Failure to do so may cause severe damage to both the motherboard and the components.

[Page 36: 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 37: Interrupt Assignments](#)

2.5.3 2.5.3 2.5.3 2.5.3 2.5.3 Interrupt assignments Interrupt assignments Interrupt assignments Interrupt assignments Interrupt assignments Standard interrupt assignments Standard interrupt assignments Standard interrupt assignments Standard interrupt assignments Standard interrupt assignments I R Q I R Q I R Q I R Q I R Q P r i o r i t y P r i o r i t y...

[Page 38: Pci Slots](#)

2.5.4 2.5.4 2.5.4 2.5.4 2.5.4 PCI slots PCI slots PCI slots PCI slots 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.

[Page 39](#) • We recommend that you install a VGA card on the primary (blue) PCI Express slot and install any other PCI Express device on the secondary (black) PCI Express slot. • In

CrossFire™ mode, each PCI Express x16 slot works at x8 bandwidth.

[Page 40: Jumper](#)

Removing the cap will cause system boot failure! A8R-MVP ® A8R-MVP 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.

[Page 41: Connectors](#)

Connectors 2.7.1 2.7.1 2.7.1 2.7.1 2.7.1 Rear panel connectors Rear panel connectors Rear panel connectors Rear panel connectors Rear panel connectors 1 . 1 . P S / 2 m o u s e p o r t (g r e e n) . P S / 2 m o u s e p o r t (g r e e n) .

[Page 42](#) Audio 2, 4, or 6-channel configuration Audio 2, 4, or 6-channel configuration Audio 2, 4, or 6-channel configuration Audio 2, 4, or 6-channel configuration Audio 2, 4, or 6-channel configuration P o r t P o r t H e a d s e t H e a d s e t P o r t P o r t...

[Page 43: Internal Connectors](#)

A8R-MVP ® A8R-MVP Floppy disk drive connector 2 . 2 . I D E c o n n e c t o r s (4 0 - 1 p i n P R I _ I D E , 4 0 - 1 p i n S E C _ I D E)

[Page 44: Hard Disk Drives](#)

A8R-MVP ® A8R-MVP IDE connectors 3 . 3 . S e r i a l A T A c o n n e c t o r s S e r i a l A T A c o n n e c t o r s...

[Page 45](#) These are not jumpers! DO NOT place jumper caps on the fan connectors. A8R-MVP ® A8R-MVP Fan connectors Only the CPU_FAN and CHA_FAN connectors support the ASUS Q-Fan 2 feature. For some chassis models with short 3-pin chassis fan cable, connect the cable to the PWR_FAN connector.

[Page 46](#) USB 2.0 specification that supports up to 480 Mbps connection speed. A8R-MVP ® A8R-MVP USB 2.0 connectors Never connect a 1 3 9 4 c a b l e d a m a g e t h e m o t h e r b o a r d ! 6 . 6 . P o w e r c o n n e c t o r s (2 4 - p i n E A T X P W R , 4 - p i n A T X 1 2 V , 4 - p i n...

[Page 47](#) A8R-MVP ® A8R-MVP Game connector A S U S A 8 R - M V P A S U S A 8 R - M V P A S U S A 8 R - M V P...

[Page 48](#) A8R-MVP ® A8R-MVP IEEE 1394 connector NEVER connect a U S B c a b l e w i l l d a m a g e t h e m o t h e r b o a r d ! 9 . 9 .

[Page 49](#) Connect one end of the front panel audio I/O module cable to this connector. A8R-MVP ® A8R-MVP 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 50: System Panel Connector](#)

This connector supports several chassis-mounted functions. A8R-MVP ® A8R-MVP System Panel connector The sytem panel connector is color-coded for easy connection. Refer to the connector description below for details. S y s t e m p o w e r L E D (G r e e n 3 - p i n P L E D) S y s t e m p o w e r L E D (G r e e n 3 - p i n P L E D) •...

[Page 51](#) This chapter describes the power up sequence, the vocal POST messages, and ways of shutting down the system. Powering up...

[Page 52](#) Chapter summary Starting up for the first time ... 3-1 Powering off the computer ... 3-2 A S U S A 8 R - M V P A S U S A 8 R - M V P A S U S A 8 R - M V P A S U S A 8 R - M V P A S U S A 8 R - M V P...

[Page 53: Starting Up For The First Time](#)

Starting up for the first time After making all the connections, replace the system case cover. Be sure that all switches are off. Connect the power cord to the power connector at the back of the system chassis. Connect the power cord to a power outlet that is equipped with a surge

protector.

[Page 54: Powering Off The Computer](#)

Powering off the computer 3.2.1 3.2.1 3.2.1 3.2.1 Using the OS shut down function Using the OS shut down function Using the OS shut down function Using the OS shut down function Using the OS shut down function If you are using Windows S t a r t S t a r t Click the S t a r t...

[Page 55: 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 56](#) Chapter summary Managing and updating your BIOS ... 4-1 BIOS setup program ... 4-11 Main menu ... 4-14 Advanced menu ... 4-18 Power menu ... 4-32 Boot menu ... 4-37 Exit menu ... 4-42 A S U S A 8 R - M V P A S U S A 8 R - M V P A S U S A 8 R - M V P A S U S A 8 R - M V P P...

[Page 57: Managing And Updating Your Bios](#)

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

[Page 58](#) A S U S U p d a t e A S U S U p d a t e A S U S U p d a t e. The ASUS Update main window appears. A S U S U p d a t e...

[Page 59](#) P r o g r a m s > A S U S P r o g r a m s A S U S U p d a t e. The ASUS Update main window appears. A S U S U p d a t e...

[Page 60: Creating A Bootable Floppy Disk](#)

4.1.2 4.1.2 4.1.2 Creating a bootable floppy disk Creating a bootable floppy disk Creating a bootable floppy disk 4.1.2 4.1.2 Creating a bootable floppy disk Creating a bootable floppy disk Do either one of the following to create a bootable floppy disk. DOS environment a.

[Page 61: Asus Ez Flash Utility](#)

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

[Page 62: Afudos Utility](#)

4.1.4 4.1.4 4.1.4 AFUDOS utility AFUDOS utility AFUDOS utility 4.1.4 4.1.4 AFUDOS utility AFUDOS utility The AFUDOS utility allows you to update the BIOS file in DOS environment using a bootable floppy disk with the updated BIOS file. This utility also allows you to copy the current BIOS file that you can use as backup when the BIOS fails or gets corrupted during the updating process.

[Page 63](#) Updating the BIOS file To update the BIOS file using the AFUDOS utility: Visit the ASUS website (www.asus.com) and download the latest BIOS file for the motherboard. Save the BIOS file to a bootable floppy disk. Write the BIOS filename on a piece of paper. You need to type the exact BIOS filename at the DOS prompt.

[Page 64](#) The utility returns to the DOS prompt after the BIOS update process is completed. Reboot the system from the hard disk drive. A:\>afudos /iA8R-MVP.ROM AMI Firmware Update Utility - Version 1.19(ASUS V2.07(03.11.24BB)) Copyright (C) 2003 American Megatrends, Inc. All rights reserved. WARNING!! Do not turn off power during flash BIOS Reading file ...

[Page 65: Asus Crashfree Bios 2 Utility](#)

ASUS CrashFree BIOS 2 utility ASUS CrashFree BIOS 2 utility The ASUS CrashFree BIOS 2 is an auto recovery tool that allows you to restore the BIOS file when it fails or gets corrupted during the updating process. You can update a corrupted BIOS file using the motherboard support CD or the floppy disk that contains the updated BIOS file.

[Page 78: Cpu Configuration](#)

4.4.2 4.4.2 4.4.2 CPU Configuration CPU Configuration CPU Configuration 4.4.2 4.4.2 CPU Configuration CPU Configuration The items in this menu show the CPU-related information that the BIOS automatically detects. Advanced CPU Configuration Module Version: 14.08 Physical Count: 1 Logical Count: 2 AMD Athlon(tm) 64 X2 Dual Core Processor 4600+ Revision: E6 Cache L1: 128*2 KB...

[Page 79](#) Memory Configuration Memory Configuration Memory Configuration Memory Configuration Memory Configuration Advanced Memory Configuration Memory Timing Configuration ECC Configuration Memory CLK CAS Latency (Tcl) RAS/CAS Delay (Trcd) Min Active RAS (Tras) Row Precharge Time (Trp) RAS/RAS Delay (Trrd) Row Cycle (Trc) Row Refresh Cycle (Trfc) Read Write Delay (Trwt) Read Preamble...

[Page 80](#) MCT Timing Mode [Auto] [Auto] allows the BIOS to set the MCT timing mode automatically. [Manual] allows you to set the values by yourself. Configuration options: [Auto] [Manual] The following items appear when the M C T T i m i n g M o d e to [Manual].

[Page 81](#) Hardware Memory Hole [Disabled] Enables or disables the software memory remapping around the memory hole. Only REV E0 processors and above support this feature. Configuration options: [Disabled] [Enabled] ECC Configuration ECC Configuration ECC Configuration ECC Configuration Advanced ECC Configuration DRAM ECC Enable MCA DRAM ECC Logging ECC Chip Kill...

[Page 82: Chipset Configuration](#)

L2 Cache BG Scrub [Disabled] Allows the L2 Data Cache RAM to be corrected while idle. Configuration options: [Disabled] [40ns] [80ns] [160ns] [320ns] [640ns] [1.28us] [2.56us] [5.12us] [10.2us] [20.5 us] [41.0us] [81.9us] [163.8us] [327.7us] [655.4us] [1.31ms] [2.62ms] [5.24ms] [10.49ms] [20.97ms] [42.00ms] [84.00ms] Data Cache BG Scrub [Disabled] Allows the L1 Data Cache RAM to be corrected while idle.

[Page 83: Onboard Devices Configuration](#)

4.4.4 4.4.4 4.4.4 Onboard Devices Configuration Onboard Devices Configuration Onboard Devices Configuration 4.4.4 4.4.4 Onboard Devices Configuration Onboard Devices Configuration Advanced Onboard Devices HD Audio Onboard LAN Onboard LAN Boot ROM Onboard IEEE1394 Configure ITE8712 Super IO Chipset Serial Port1 Address Parallel Port Address Parallel Port Mode EPP Version...

[Page 84](#) EPPVersion[1.9]EPPVersion[1.9]EPPVersion[1.9]EPPVersion[1.9]

[Page 85: Pci Pnp](#)

4.4.5 4.4.5 4.4.5 PCI PnP PCI PnP PCI PnP 4.4.5 4.4.5 PCI PnP PCI PnP The PCI PnP menu items allow you to change the advanced settings for PCI/PnP devices. The menu includes setting IRQ and DMA channel resources for either PCI/PnP or legacy ISA devices, and setting the memory size block for legacy ISA devices.

[Page 86: Lan Cable Status](#)

4.4.6 4.4.6 4.4.6 LAN Cable Status LAN Cable Status LAN Cable Status 4.4.6 4.4.6 LAN Cable Status LAN Cable Status This menu displays the status of the Local Area Network (LAN) cable connected to the LAN (RJ-45) port. Advanced POST Check LAN Cable LAN2 Cable Status Pair Status...

[Page 87](#) USB Controller [USB1.1+2.0] USB Controller [USB1.1+2.0] USB Controller [USB1.1+2.0] USB Controller [USB1.1+2.0] Allows you to disable the USB controllers, or choose which controller to enable. Configuration options: [Disabled] [USB1.1+2.0] [USB1.1 Only] Legacy USB Support [Auto] Legacy USB Support [Auto] Legacy USB Support [Auto] Legacy USB Support [Auto] Legacy USB Support [Auto]...

[Page 88: Power Menu](#)

Power menu The Power menu items allow you to change the settings for the ACPI and Advanced Power Management (APM) features. Select an item then press <Enter> to display the configuration options. Main Advanced Suspend Mode Repost Video on S3 Resume ACPI 2.0

[Page 89: Apm Configuration](#)

4.5.5 4.5.5 4.5.5 APM Configuration APM Configuration APM Configuration 4.5.5 4.5.5 APM Configuration APM Configuration Power Power Button Mode Restore on AC Power Loss Power On By PS/2 Keyboard Power On By PS/2 Mouse Power On By RTC Alarm Power On By External Modems Power On By PCI Devices v02.58 (C)Copyright 1985-2004, American Megatrends, Inc.

[Page 90](#) The succeeding items appear when the P o w e r O n B y R T C A l a r m item is set to Enabled. RTC Alarm Date (Days) [Everyday] RTC Alarm Date (Days) [Everyday] RTC Alarm Date (Days) [Everyday] RTC Alarm Date (Days) [Everyday] RTC Alarm Date (Days) [Everyday] To set the alarm date, highlight this item and press the <+>...

[Page 91: Hardware Monitor](#)

4.5.6 4.5.6 4.5.6 Hardware Monitor Hardware Monitor Hardware Monitor 4.5.6 4.5.6 Hardware Monitor Hardware Monitor Power Hardware Monitor CPU Temperature MB Temperature CPU Fan Speed Chassis Fan Speed Power Fan Speed VCORE Voltage 3.3V Voltage 5V Voltage 12V Voltage CPU QFan Control Chassis QFan Control v02.53 (C)Copyright 1985-2004, American Megatrends, Inc.

[Page 92](#) CPU QFan Control [Disabled] CPU QFan Control [Disabled] CPU QFan Control [Disabled] Allows you to enable or disable the ASUS Q-Fan feature that smartly adjusts the fan speeds for more efficient system operation. Configuration options: [Disabled] [Enabled] The following items appear when the C P U Q F a n C o n t r o l to [Enabled].

[Page 93: Boot Menu](#)

ChassisFan Start Temperature[XXX] ChassisFan Start Temperature[XXX] ChassisFan Start Temperature[XXX] ChassisFan Start Temperature[XXX] ChassisFan Start Temperature[XXX] Allows you to set the chassis temperature at which the CPU fan starts. Use the <+>/<-> key or use the numeric keypad to set the value. Valid values range from [0] to [100].

[Page 94: Boot Device Priority](#)

Specifies the boot sequence from the [1st FLOPPY DRIVE] available devices. [PM-ST320410A] [PS-ASUS CD-S520/A] A device enclosed in parenthesis has been disabled in the corresponding menu. C h a p t e r 4 : B I O S s e t u p...

[Page 95: Boot Settings Configuration](#)

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™ feature. Add On ROM Display Mode [Force BIOS] Add On ROM Display Mode [Force BIOS]...

[Page 96: Security](#)

Hit 'DEL' Message Display [Enabled] Hit 'DEL' Message Display [Enabled] Hit 'DEL' Message Display [Enabled] Hit 'DEL' Message Display [Enabled] Hit 'DEL' Message Display [Enabled] When set to Enabled, the system displays the message "Press DEL to run Setup" during POST. Configuration options: [Disabled] [Enabled] Interrupt 19 Capture [Disabled] Interrupt 19 Capture [Disabled] Interrupt 19 Capture [Disabled]...

[Page 97](#) To clear the supervisor password, select the Change Supervisor Password then press <Enter>. The message "Password Uninstalled" appears. If you forget your BIOS password, you can clear it by erasing the CMOS Real Time Clock (RTC) RAM. See section "2.6 Jumpers" for information on how to erase the RTC RAM.

[Page 98: Exit Menu](#)

To set a User Password: Select the Change User Password item and press <Enter>. On the password box that appears, type a password composed of at least six letters and/or numbers, then press <Enter>. Confirm the password when prompted. The message "Password Installed" appears after you set your password successfully.

[Page 99](#) Exit & Save Changes Exit & Save Changes Exit & Save Changes Exit & Save Changes Exit & Save Changes Once you are finished making your selections, choose this option from the Exit menu to ensure the values you selected are saved to the CMOS RAM. An onboard backup

[Page 112: Ai Net 2](#)

5.3.2 5.3.2 5.3.2 AI Net 2 AI Net 2 AI Net 2 5.3.2 5.3.2 AI Net 2 AI Net 2 The Marvell® Virtual Cable Tester™ (VCT) is a cable diagnostic utility that reports LAN cable faults and shorts using the Time Domain Reflectometry (TDR) technology.

[Page 113: Asus Pc Probe Ii](#)

Autorun feature. If Autorun is not enabled in your computer, browse the contents of the support CD to locate the setup.exe file from the ASUS PC Probe II folder. Double-click the setup.exe file to start installation.

[Page 114](#) Button Button Button Button Button Function Function Function Function...

[Page 115](#) Hardware monitor panels Hardware monitor panels Hardware monitor panels Hardware monitor panels 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).

[Page 116](#) 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. Large display Large display Large display Large display...

[Page 117](#) PCI browser PCI browser PCI browser PCI browser 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 PCI Information PCI Information PCI Information...

[Page 118: Memory Usage](#)

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 memory. Configuring PC Probe II Configuring PC Probe II Configuring PC Probe II Configuring PC Probe II Configuring PC Probe II Click...

[Page 119: Cool 'N' Quiet™ Technology](#)

5.3.4 5.3.4 5.3.4 Cool 'n' Quiet™ Technology Cool 'n' Quiet™ Technology Cool 'n' Quiet™ Technology 5.3.4 5.3.4 Cool 'n' Quiet™ Technology Cool 'n' Quiet™ Technology The motherboard supports the AMD Cool 'n' Quiet™ Technology that dynamically and automatically change the CPU speed, voltage, and amount of power depending on the task the CPU performs.

[Page 120](#) Launching the Cool 'n' Quiet™ software Launching the Cool 'n' Quiet™ software Launching the Cool 'n' Quiet™ software Launching the Cool 'n' Quiet™ software Launching the Cool 'n' Quiet™ software The motherboard support CD includes the Cool 'n' Quiet™ software that enables you to view your system's real-time CPU Frequency and voltage.

[Page 121: Soundmax High Definition Audio Utility](#)

5.3.5 5.3.5 SoundMAX SoundMAX 5.3.5 5.3.5 5.3.5 SoundMAX SoundMAX SoundMAX®®®® The ADI AD1986 High Definition Audio CODEC provides 6-channel audio capability through the SoundMAX® audio utility with AudioESP™ software to deliver the ultimate audio experience on your PC.

[Page 122: Audio Setup Wizard](#)

From the taskbar, double-click on the SoundMAX SoundMAX SoundMAX SoundMAX®®®® Control Panel Control Panel.

[Page 123](#) Jack configuration This screen helps you configure your computer's audio ports, depending on the audio devices you have installed. Adjust microphone volume This screen helps you adjust microphone volume. You will be asked to read pre-written text to allow the AudioWizard to adjust the volume as you speak.

[Page 124](#) Audio preferences Audio preferences Audio preferences Audio preferences Audio preferences Click the icon to go to the Preferences to change various audio settings. General options General options General options General options General options Click the G e

neral General tab to choose your playback and recording devices,...

[Page 125](#) Microphone options Microphone options Microphone options Microphone options
Microphone options Listening Environment Listening Environment Click
the Listening Environment Listening Environment tab allows you to
optimize your Listening Environment...

[Page 126: Raid Configurations](#)

RAID configurations The motherboard comes with a RAID controller integrated in the ULI M1575 Southbridge that allows you to configure Serial ATA hard disk drives as RAID sets. The motherboard supports the following RAID configurations. RAID 0 RAID 0 (Data striping) optimizes two identical hard disk drives to read and RAID 0 RAID 0...

[Page 127: Installing Hard Disks](#)

5.4.1 5.4.1 5.4.1 Installing hard disks Installing hard disks Installing hard disks 5.4.1 5.4.1
Installing hard disks Installing hard disks The motherboard supports Ultra DMA 133/100/66 and Serial ATA hard disk drives. For optimal performance, install identical drives of the same model and capacity when creating a disk array.

[Page 128](#) RAID BIOS Setup Utility (c) 2005 ULI Electronics Inc. Create RAID 0 Striping x2 for Performance Create RAID 1 Mirroring for Reliability Create RAID 0+1 Striping, Mirroring Create JBOD for integrated Capacity Stripe Size Delete RAID Settings & Partition Delete All RAID Settings & Partition Rebuild RAID Array Create RAID 5 for Reliability Channel 0 Master: XXXXXXXXXXXX...

[Page 129](#) Creating a RAID 0 configuration Creating a RAID 0 configuration Creating a RAID 0 configuration Creating a RAID 0 configuration Creating a RAID 0 configuration To create a RAID 0 set: From the ULI RAID BIOS Setup utility menu, move the cursor to Create RAID 0 Striping for Performance Create RAID 0 Striping for Performance Create RAID 0 Striping for Performance...

[Page 130](#) Creating a RAID 1 configuration Creating a RAID 1 configuration Creating a RAID 1 configuration Creating a RAID 1 configuration Creating a RAID 1 configuration To create a RAID 1 set: From the ULI RAID BIOS Setup utility menu, move the cursor to Create RAID 1 Mirroring for Reliability Create RAID 1 Mirroring for Reliability Create RAID 1 Mirroring for Reliability then press <Enter>.

[Page 131](#) Creating a RAID 0+1 configuration Creating a RAID 0+1 configuration Creating a RAID 0+1 configuration Creating a RAID 0+1 configuration Creating a RAID 0+1 configuration To create a RAID 0+1 set: From the ULI RAID BIOS Setup utility menu, move the cursor to Create RAID 0+1 Striping, Mirroring Create RAID 0+1 Striping, Mirroring Create RAID 0+1 Striping, Mirroring...

[Page 132](#) Key in a RAID name with a maximum of eight (8) alphanumeric characters then press <Enter>. Do not use special characters or symbols. The utility displays the RAID Array settings at the bottom of the screen. Channel 0 Master: XXXXXXXXXXXX Channel 1 Master: XXXXXXXXXXXX Channel 2 Master: XXXXXXXXXXXX Channel 3 Master: XXXXXXXXXXXX...

[Page 133](#) Deleting a RAID configuration Deleting a RAID configuration Deleting a RAID configuration Deleting a RAID configuration Deleting a RAID configuration To delete a RAID set: From the ULI RAID BIOS Setup utility menu, move the cursor to Delete RAID Settings & Partition Delete RAID Settings &...

[Page 134](#) Rebuilding a RAID array Rebuilding a RAID array Rebuilding a RAID array Rebuilding a RAID array Rebuilding a RAID array This option allows you to rebuild an existing RAID array. To rebuild a RAID array: From the ULI RAID BIOS Setup utility menu, move the cursor to Rebuild RAID Array then press <Enter>.

[Page 135: Creating A Raid Driver Disk](#)

Creating a RAID driver disk A floppy disk with the RAID driver is required when installing Windows 2000/XP operating system on a hard disk drive that is included in a RAID set. To create a RAID driver disk: Boot your computer. Press ...

access the Profiles Profiles Profiles Profiles Manager, which allows you to create customized environments for your desktop, video, and 3D applications.

[Page 150](#) Help Click the Help Help Help Help tab on the Catalyst™ Control Center to access the online Help help system, generate a Problem Report, and get the Catalyst™ Control Center version information.

Save PDF