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Notice for AGP4X Slot:

This mainboard provides an optional AGP4x slot. We recommend the user should use one of the AGP VGA cards that we have tested. We will test more AGP VGA cards in the future. Users may get this information from our World Wide Web.

Model Chipset	Memory	Manufacture
3D BLASTER GeForce	32M	Creative CT6940
ATI PERMEDIA 2	8M	WinFast 3D L2300
GeForce 256	32M	ASUS V6600
GeForce 2 MX	32M	ASUS AGP-V7100
GeForce 2 GTS DDR	32M	ASUS AGP-7700D
GeForce 2 GTS DDR	32M	ELSA GLADIAC
GeForce 2 GTS	32M	WinFast
GeForce 2 MX	32M	WinFast
Matrox Productiva G100	8M	Matrox
Matrox Millennium G200	8M	TAGRAM
NVIDIA GeForce 256 DDR	32M	ASUS V6800
NVIDIA GeForce 256	32M	Creative CT6970
NVIDIA RIVA TNT2 Vanta	32M	Top solution
RIVA TNT2 M64	16M	PixelView
RIVA TNT	16M	WinFast 3D S320
RIVA TNT2	32M	ASUS AGP-V3800
RIVA TNT2	32M	Creative CT6810

Table of Contents

Trademarks	I
Chapter 1	1
Introduction	1
Key Features	
Package Contents	
Static Electricity Precautions	
Pre-Installation Inspection	
Chapter 2	
Mainboard Installation	7
Mainboard Components	
I/O Ports	9
Install A CPU	9
Install Memory	. 11
Setting Jumper Switches	. 12
Install the Mainboard	
Optional Extension Brackets	
Install Other Devices	
Expansion Slots	. 18
Chapter 3	. 19
BIOS Setup Utility	. 19
Introduction	. 19
Running the Setup Utility	20
Standard CMOS Setup Page	. 21
Advanced Setup Page	. 22
Power Management Setup Page	. 23
PCI / Plug and Play Setup Page	. 25
Load Optimal Settings	
Load Best Performance Settings	26
Features Setup Page	26
CPU PnP Setup Page	
Hardware Monitor Page	. 29
Change Password	. 29
Exit	. 30
Chapter 4	31
Software & Applications	. 31
Folders for this Mainboard	31
Utility Folder	. 31
Running the Support CD-ROM	. 32

Utility Folder Installation Notes	32
AMI Flash Memory Utility	
PC-cillin Software	33
GAMUT	33
MediaRing Talk	33
Super Voice	33
Mainboard (MS8308D/E) Installation Notes	

1: Introduction

Chapter 1

Introduction

This mainboard has a **Socket-462** processor socket for an **AMD K7** type CPUs. You can install any one of these processors on the mainboard.

The mainboard supports Socket-462 processor front-side bus speeds of **200MHz**.

This mainboard uses the SiS730S chipset which integrates a 128-bit AGP Graphics Accelerator, and provides a optional 4X AGP slot for highly graphics display, CPU Plug & Play through firmware, Ultra DMA 33/66/100 function. The mainboard has a built-in AC97 Codec, provides an AMR (Audio Modem Riser) slot to support Audio and Modem application, and has a built-in 10BaseT/100BaseTX Network Interface. In addition, the mainboard has an extended set of ATX I/O Ports including PS/2 keyboard and mouse ports, two USB ports, an RJ-45 LAN port, a parallel port, one serial port, and one VGA port. Two extra USB ports can be added using the Extended USB Module that connects to the mainboard, and an optional serial port.

This mainboard has all the features you need to develop a powerful multimedia workstation that is network ready. The board is **Micro ATX size** and has power connectors for an **ATX** power supply.

Key Features

The key features of this mainboard include:

Socket-462 Processor Support

- ♦ Supports AMD **Athlon/Duron** processors
- ♦ Supports 200 MHz Front-Side Bus

Processors are automatically configured using firmware and a synchronous Host/DRAM Clock Scheme.

Memory Support

- ◆ Two DIMM slots for 168-pin SDRAM memory modules
- ♦ Support for 100/133 MHz memory bus
- ♦ Maximum installed memory is 2 x 512MB = 1GB

Expansion Slots

- ♦ One AMR slot for a special audio/modem riser card
- One optional AGP 4X slot for AGP 2.0-compliant interface
- ◆ Two 32-bit PCI slots for PCI 2.2-compliant bus interface.

Onboard IDE channels

- ♦ Primary and Secondary PCI IDE channels
- ♦ Support for PIO (programmable input/output) modes
- ♦ Support for Multiword DMA modes
- Support for Bus Mastering and Ultra DMA 33/66/100 modes

Power Supply and Power Management

- ♦ ATX power supply connector
- ◆ ACPI and previous PMU support, suspend switch, keyboard power on/off
- Supports Wake on Modem, Wake on LAN and Wake on Alarm

Built-in Graphics System

- ◆ Onboard 128-bit 2D/3D 100MHz Host interface **AGP Graphics Accelerator** Complies with AGP V2.0
- ◆ Shared memory architecture allows a maximum of 64 MB main memory to act as frame buffer
- ◆ Supports high resolutions up to 1920x1440 Hi-colors, up to 2048x2048 Texture size and Virtual screen up to 4096x4096
- ♦ Supports hardware DVD Accelerator

AC97 Codec

- ♦ Compliant PC97 2.1 specification
- Supports 18-bit ADC (Analog Digital Converter) and DAC (Digital Analog Converter) as well as 18-bit stereo fullduplex codec

Onboard I/O Ports

- Provides PC99 Color Connectors for easy peripheral device connections
- ♦ Floppy disk drive connector with 1Mb/s transfer rate
- ◆ Two serial ports (one for option) with 16550-compatible fast UART
- One parallel port with ECP and EPP support
- ◆ Two USB ports and optional two USB ports module
- ◆ Two PS/2 ports for keyboard and mouse
- One infrared port connector for optional module

Hardware Monitoring

♦ Built-in hardware monitoring for CPU & System temperatures, fan speeds and mainboard voltages

Built-in Ethernet LAN

- ♦ Built-in 10BaseT/100BaseTX Ethernet LAN
- ◆ LAN controller integrates Fast Ethernet MAC and PHY compliant with IEEE802.3u 100BASE-TX, 10BASE-T and ANSI X3.263 TP-PMD standards
- ◆ Compliant with ACPI 1.0 and the Network Device Class Power Management 1.0

♦ High Performance provided by 100Mbps clock generator and data recovery circuit for 100Mbps receiver

Onboard Flash ROM

- ♦ Automatic CPU and board configuration
- ♦ Supports Plug and Play configuration of peripheral devices and expansion cards
- ♦ Built-in virus protection using **Trend's ChipAwayVirus** provides boot process virus protection.

Bundled Software

- ♦ PC-Cillin2000 provides automatic virus protection under Windows 95/98/NT/2000
- ♦ **SuperVoice** is data, fax and voice communication software
- ♦ MediaRing Talk provides PC to PC or PC to Phone internet phone communication
- ◆ Gamut2000 provides professional audio features included MP3 encoding/playback
- ◆ **3Deep** delivers the precise imagery and displays accurate color in your monitor
- ◆ Corel WordPerfect Suite 8 is a Microsoft Windows® office application suite (optional)

Dimensions

♦ Micro ATX form factor (24.4cm x 22cm)

1: Introduction

Package Contents

Your mainboard package ships with the following items:

- □ The mainboard
- □ This User's Guide
- □ 1 UDMA/66 IDE cable
- □ 1 Floppy disk drive cable
- □ Support software on CD-ROM disk

Optional Accessories

You can purchase the following optional accessories for this mainboard.

- □ Extended USB module
- □ Serial port extension bracket
- □ Ethernet LAN only for MS8308E Motherboard

Static Electricity Precautions

Components on this mainboard can be damaged by static electricity. Take the following precautions when unpacking the mainboard and installing it in a system.

- 1. Keep the mainboard and other components in their original static-proof packaging until you are ready to install them.
- 2. During installation, wear a grounded wrist strap if possible. If you don't have a wrist strap, discharge static electricity by touching the bare metal of the system chassis.
- 3. Handle the mainboard carefully by the edges. Avoid touching the components unless it is absolutely necessary. During installation put the mainboard on top of the static-protection packaging it came in with the component side facing up.

Pre-Installation Inspection

- 1. Inspect the mainboard for damage to the components and connectors on the board.
- 2. If you suspect that the mainboard has been damaged, do not connect power to the system. Contact your mainboard vendor and report the damage.

Chapter 2

Mainboard Installation

To install this mainboard in a system, follow the procedures in this chapter:

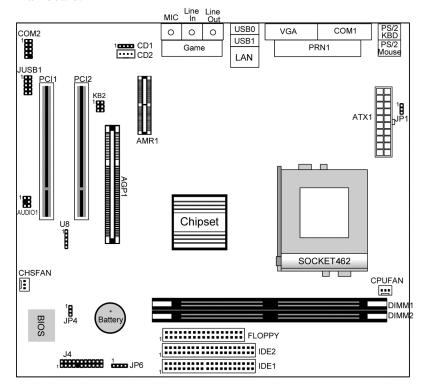
Identify the mainboard components
Install a CPU
Install one or more system memory modules
Verify that any jumpers or switches are set correctly
Install the mainboard in a system chassis (case)
Connect any extension brackets or cables to the mainboard
connector headers
Install any other devices and make the appropriate connections
to the mainboard connector headers.

Note:

- 1. Before installing this mainboard, make sure jumper JP4 set to Normal setting. See this chapter for information on locating JP4 and the setting options.
- 2. Never connect power to the system during installation. Doing so may damage the mainboard.

Mainboard Components

Use the diagram below to identify the major components on the mainboard.

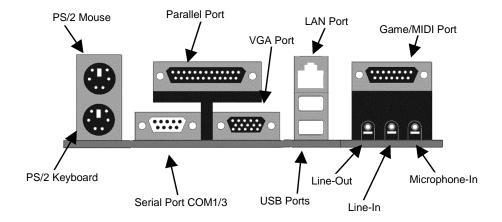


Note: Any jumper on your mainboard that do not appear in the illustration above is for testing only.

2: Mainboard Installation

I/O Ports

The illustration below shows a side view of the built-in I/O ports on the mainboard.



Install A CPU

This mainboard has a Socket-462 CPU socket for AMD K7 processors.

To ensure reliability, ensure that your processor has a heatsink/cooling fan assembly.

Do not try to install a Socket-370/Socket-7 processor in the Socket-462. A Socket-370/Socket-7 processor such as the PPGA Celeron, FCPGA Pentium-III, Pentium-MMX, or the AMD K5/K6 does not fit in the Socket-462.

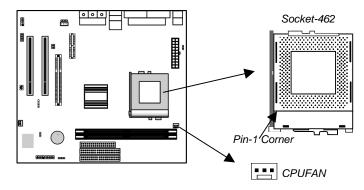
The following list notes the processors that are currently supported by this mainboard.

Athlon: 650 MHz~1.2 GHz, FSB: 200 MHz **Duron**: 550~850 MHz, FSB: 200 MHz

Installing a Socket-462 Processor

A processor installs into the ZIF (Zero Insertion Force) Socket-462 on the mainboard.

1. Locate the Socket-462 and CPUFAN. Pull the locking lever out slightly from the socket and raise it to the upright position.

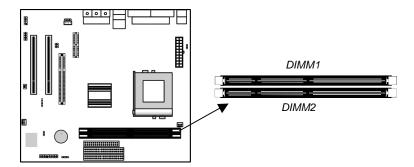


- 2. On the processor, identify the Pin-1 corner by its beveled edge.
- 3. On the Socket-462, identify the Pin-1 corner. The Pin-1 corner is at the top of the locking lever when it locked.
- 4. Match the Pin-1 corners and insert the processor into the socket. No force is required and the processor should drop into place freely.
- 5. Swing the locking lever down and hook it under the catch on the side of the socket. This secures the CPU in the socket.
- 6. All processors should be installed with a combination heatsink/cooling fan (the original fan is recommended, the others' fan is not), connect the cable from the fan to the CPU fan power connector CPUFAN.

2: Mainboard Installation

Install Memory

The mainboard has two DIMM sockets for system memory modules. You must install at least one memory module in order to use the mainboard.



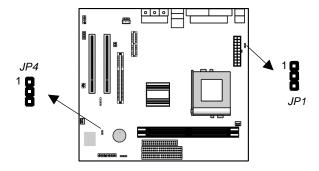
For this mainboard, you must use 168-pin, 3.3V unbuffered PC100 or PC133 SDRAM memory modules. You can install any size memory module from 32 MB to 512MB, so the maximum memory size is $2 \times 512MB = 1GB$.

The edge connectors on the memory modules have cut outs, which coincide with spacers in the DIMM sockets so that memory modules can only be installed in the correct orientation.

To install a module, push the retaining latches at either end of the socket outwards. Position the memory module correctly and insert it into the DIMM socket. Press the module down into the socket so that the retaining latches rotate up and secure the module in place by fitting into notches on the edge of the module.

Setting Jumper Switches

Jumpers are sets of pins which can be connected together with jumper caps. The jumper caps change the way the mainboard operates by changing the electronic circuits on the mainboard. If a jumper cap connects two pins, we say the pins are SHORT. If a jumper cap is removed from two pins, the pins are OPEN.



Jumper JP4: Clear CMOS Memory

Use this jumper to clear the contents of the CMOS memory. You may need to clear the CMOS memory if the settings in the Setup Utility are incorrect and prevent your mainboard from operating. To clear the CMOS memory, disconnect all the power cables from the mainboard and then move the jumper cap into the CLEAR setting for a few seconds.

Function	Jumper Setting
Normal Operation	Short Pins 2-3
Clear CMOS Memory	Short Pins 1-2

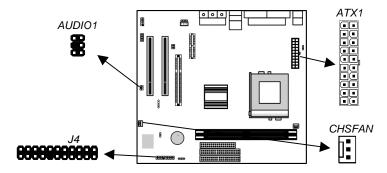
Jumper JP1: Keyboard Power On Selector

If you enable the keyboard power on feature, you can use hot keys on your keyboard as a power on/off switch for the system. **Note:** The system must provide 1A on the +5VSB (+5V Standby) signal before using the Keyboard Power On function.

Function	Jumper Setting
Disable Keyboard Power On	Short Pins 1-2
Enable Keyboard Power On	Short Pins 2-3

Install the Mainboard

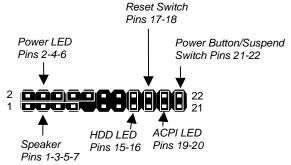
Install the mainboard in a system chassis (case). The board is a Micro ATX size mainboard with a twin-tier of I/O ports. You can install this mainboard in any ATX case. Ensure that your case has an I/O cover plate that matches the ports on this mainboard. Install the mainboard in a case. Follow the instructions provided by the case manufacturer using the hardware and internal mounting points on the chassis.



Connect the power connector from the power supply to the **ATX1** connector on the mainboard.

If there is a cooling fan installed in the system chassis, connect the cable from the cooling fan to the **CHSFAN** fan power connector on the mainboard.

If there are a headphone jack or/and a microphone jack on the front panel, connect the cables to the **AUDIO1** header on the mainboard. Connect the case switches and indicator LEDs to the **J4** header. See the illustrations below for the guide to the J4 headers pin assignments.



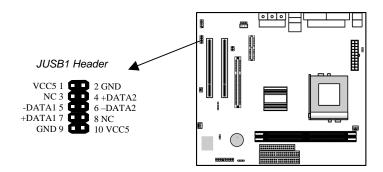
Optional Extension Brackets

For this mainboard, you can also obtain an USB module extension bracket and a serial port extension bracket. Install them by following the steps below.

Note: All the ribbon cables used on the extension brackets have a red stripe on the Pin-1 side of the cable.

Extended USB Module

This module bracket has two USB ports for more USB devices (USB port 3-4).

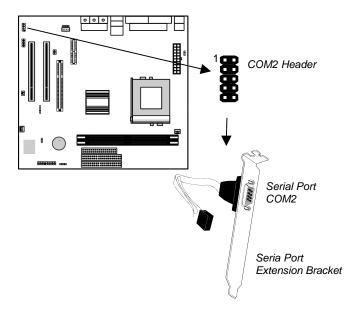


- 1. Locate the JUSB1 header on the mainboard.
- 2. Plug the bracket cable onto the JUSB1 header.
- 3. In the system chassis, remove a slot cover from one of the expansion slots and install the extension bracket in the opening. Use the screw that held the slot cover in place to secure the extension bracket to the chassis.

2: Mainboard Installation

Serial Port Extension Bracket

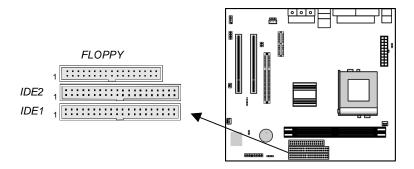
This bracket has one serial port – COM2 (9-pins).



- 1. On the mainboard, locate the header COM2 for this bracket.
- 2. Plug the serial cable into COM2.
- 3. In the system chassis, remove a blanking plate from one of the expansion slots and install the extension bracket in the slot. Use the screw that held the blanking plate in place to secure the extension bracket.

Install Other Devices

Install and connect any other devices in the system following the steps below.



Floppy Disk Drive

The mainboard ships with a floppy disk drive cable that can support one or two drives. Drives can be 3.5" or 5.25" wide, with capacities of 360K, 720K, 1.2MB, 1.44MB, or 2.88MB. Install your drives and connect power from the system power supply. Use the cable provided to connect the drives to the floppy disk drive header **FLOPPY**.

IDE Devices

IDE devices include hard disk drives, high-density diskette drives, and CD-ROM or DVD-ROM drives, among others.

The mainboard ships with an IDE cable that can support one or two IDE devices. If you connect two devices to a single cable, you must configure one of the drives as Master and one of the drives as Slave. The documentation of the IDE device will tell you how to configure the device as a Master or Slave device. The Master device connects to the end of the cable.

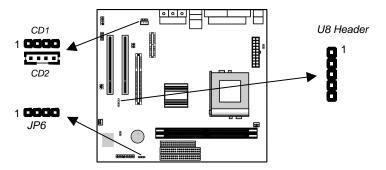
Install the device(s) and connect power from the system power supply. Use the cable provided to connect the device(s) to the Primary IDE channel connector **IDE1** on the mainboard.

2: Mainboard Installation

If you want to install more IDE devices, you can purchase a second IDE cable and connect one or two devices to the Secondary IDE channel connector **IDE2** on the mainboard. If you have two devices on the cable, one must be Master and one must be Slave.

Internal Sound Connections

If you have installed a CD-ROM drive or DVD-ROM drive, you can connect the drive audio cable to the onboard sound system. On the mainboard, locate the two 4-pin connectors **CD1** and **CD2**. There are two kinds of connector because different brands of CD-ROM drive have different kinds of audio cable connectors. Connect the cable to the appropriate connector.



Infrared Port

You can connect an infrared port to the mainboard. You can purchase this option from third-party vendors.

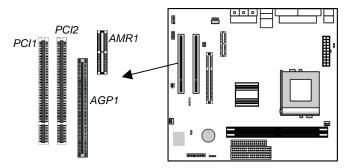
- 1. Locate the infrared port **U8** header on the mainboard.
- 2. If you are adding an infrared port, connect the ribbon cable from the port to the header and then secure the port to an appropriate place in your system chassis.

Onboard LAN LED Connections

If you have a set indicator LEDs for the onboard LAN communication, you can connect the LED cable to the header **JP6**. Pins 1-2 are for Link LED. Pins 3-4 are for 10/100 Mbps mode LED, the onboard LAN run in 100 Mbps mode when the LED lit.

Expansion Slots

This mainboard has two 32-bit PCI expansion slots, one AMR slot and one optional AGP slot.



Follow the steps below to install a PCI/AMR/AGP expansion card.

- 1. Locate the AGP, AMR or PCI slots on the mainboard.
- 2. Remove the slot cover for this slot from the system chassis.
- 3. Insert the expansion card edge connector into the slot and press it firmly down into it so that it is fully inserted.
- 4. Secure the expansion card bracket to the system chassis using the screw that held the slot cover in place.

AMR Slot

The AMR (Audio Modem Riser) slot is an industry standard slot that allows for the installation of a special audio/modem riser card. Different territories have different regulations regarding the specifications of a modem card. You can purchase an AMR card that is approved in your area and install it directly into the AMR slot.

Chapter 3

BIOS Setup Utility

Introduction

The BIOS Setup Utility records settings and information about your computer such as the date and time, the kind of hardware installed, and various configuration settings. Your computer uses this information to initialize all the components when booting up and functions as the basis for coordination between system components.

If the Setup Utility configuration is incorrect, it may cause the system to malfunction. It can even stop your computer from booting properly. If this happens, you can use the clear CMOS jumper to clear the CMOS memory used to store the configuration information, or you can hold down the **Page Up** key while you reboot your computer. Holding down the **Page Up** key also clears the setup information.

You can run the setup utility and manually make changes to the configuration. You might need to do this to configure some of the hardware that you install on or connect to the mainboard, such as the CPU, system memory, disk drives, etc.

Running the Setup Utility

Each time your computer starts, before the operating system loads, a message appears on the screen that prompts you to "*Hit * if you want to run SETUP". When you see this message, press the **Delete** key and the Main menu page of the Setup Utility appears on your monitor.

AMIBIOS SIMPLE SETUP UTILITY - VERSION 1.21.01 ©2000 American Megatrends, Inc. All Rights Reserved		
Standard CMOS Setup	Features Setup	
Advanced Setup	CPU PnP Setup	
Power Management Setup	Hardware Monitor	
PCI / Plug and Play Setup Change Password		
Load Optimal Settings Exit		
Load Best Performance Settings		
ESC: Quit ↑↓←→: Select Item (Shift)F2: Change Color F5: Old Values F6: Optimal values F7: Best performance values F10: Save&Exit		

You can use the cursor arrow keys to highlight any of the options on the main menu page. Press **Enter** to select the highlighted option. To leave the setup utility, press the **Escape** key. To cycle through the Setup Utility's optional color schemes hold down the **Shift** key and press **F2**.

Some of the options on the main menu page lead to tables of items with installed values. In these pages, use the cursor arrow keys to highlight the items, and then use the **PgUp** and **PgDn** keys to cycle through the alternate values for each of the items. Other options on the main menu page lead to dialog boxes which require you to answer Yes or No by hitting the **Y** or **N** keys.

If you have already made changes to the setup utility, press F10 to save those changes and exit the utility. Press F5 to reset the changes to the original values. Press F6 to install the setup utility with a set of default values. Press F7 to install the setup utility with a set of high-performance values.

3: BIOS Setup Utility

Standard CMOS Setup Page

Use this page to set basic information such as the date, the time, the IDE devices, and the diskette drives. If you press the F3 key, the system will automatically detect and configure the hard disks on the IDE channels.

AMIBIOS SETUP – STANDARD CMOS SETUF ©2000 American Megatrends, Inc. All Rights Rese			
Date (mm/dd/yy): Tue Oct 24, 2000 Time (hh/mm/ss): 14:26:53 LBA Type Size Cyln Head WPcom Sec Mode Pri Master: Auto Pri Slave: Auto Sec Master: Auto Sec Slave: Auto Floppy Drive A: 1.44MB 3 1/2" Floppy Drive B: Not Installed	Blk Mode		32Bit Mode On On On On
Month: Jan - Dec Day: 01 - 31 Year: 1901 - 2099	PU/PD (Shift)	Exit Select I)/+/- : I)F2 : 0 Detect <i>F</i>	Modify Color

Date & Time	Use these items to set the system date and time
Pri Master Pri Slave Sec Master Sec Slave	Use these items to configure devices connected to the Primary and Secondary IDE channels. To configure an IDE hard disk drive, choose <i>Auto</i> . If the <i>Auto</i> setting fails to find a hard disk drive, set it to <i>User</i> , and then fill in the hard disk characteristics (Size, Cyls, etc.) manually. If you have a CD-ROM drive, select the setting <i>CDROM</i> . If you have an ATAPI device with removable media (e.g. a ZIP drive or an LS-120) select <i>Floptical</i> .
Floppy Drive A Floppy Drive B	Use these items to set the size and capacity of the floppy diskette drive(s) installed in the system.

Advanced Setup Page

Use this page to set more advanced information about your system. Take some care with this page. Making changes can affect the operation of your computer.

AMIBIOS	S SETUP – A	ADVANCED SETUP
(C) 2000 America	an Megatren	nds, Inc. All Rights Reserved
Quick Boot 1st Boot Device 2nd Boot Device 3rd Boot Device Try Other Boot Devices S.M.A.R.T. for Hard Disks BootUp Num-Lock Floppy Drive Swap Floppy Drive Seek Password Check Boot To OS/2 > 64MB L1 Cache L2 Cache	Enabled Enabled Floppy IDE-0 CDROM Yes Disabled On Disabled Disabled Setup No Enabled Enabled Enabled	ESC: Quit ↑↓←→: Select Item F1: Help PU/PD/+/-: Modify F5: Old Values (Shift)F2: Color F6: Load Optimal values F7: Load Best performance values

Trend ChipAway Virus	This mainboard has built-in virus protection in the firmware. Use this item to enable or disable the built-in virus protection.
Quick Boot	If you enable this item, the system starts up more quickly be elimination some of the power on test routines.
1 st Boot Device 2 nd Boot Device 3 rd Boot Device	Use these items to determine the device order the computer uses to look for an operating system to load at start-up time.
Try Other Boot Device	If you enable this item, the system will also search for other boot devices if it fails to find an operating system from the first two locations.
S.M.A.R.T. for Hard Disks	Enable this item if any IDE hard disks support the S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) feature.
BootUp Num- Lock	This item determines if the Num Lock key is active or inactive at system start-up time.
Floppy Drive Swap	If you have two diskette drives installed and you enable this item, drive A becomes drive B and drive B becomes drive A.

3: BIOS Setup Utility

Floppy Drive Seek	If you enable this item, your system will check all floppy disk drives at start up. Disable this item unless you are using an old 360KB drive.
Password Check	If you have entered a password for the system, use this item to determine, if the password is required to enter the Setup Utility (Setup) or required both at start-up and to enter the Setup Utility (Always).
Boot to OS/2 > 64MB	Enable this item if you are booting the OS/2 operating system and you have more than 64MB of system memory installed.
L1/L2 Cache	Leave these items enabled since all the processors that can be installed on this board have internal L1/L2 cache memory.
System BIOS Cacheable	If you enable this item, a segment of the system BIOS will be cached to main memory for faster execution.

Power Management Setup Page

This page sets some of the parameters for system power management operation.

AMIBIOS SETUP – POWER MANAGEMENT SETUP (C) 2000 American Megatrends, Inc. All Rights Reserved		
Power Management Standby Time Out Suspend Time Out Display Time Out Hard Disk Time Out Ring On Power On Keyboard Power On RTC Alarm Power On RTC Alarm Date RTC Alarm Hour RTC Alarm Minute RTC Alarm Second	Disabled 30 30	ESC: Quit ↑↓←→: Select Item F1: Help PU/PD/+/-: Modify F5: Old Values (Shift)F2: Color F6: Load Optimal values F7: Load Best performance values

Power	Use this item to enable or disable a power
Management	management scheme. If you enable power management, you can use the items below to set the power management operation. Both APM and ACPI are supported.
	/ tor raio supportou.

Standby Time Out	This sets the timeout for Standby mode in minutes. If the time selected passes without any system activity, the computer will enter power-saving Standby mode.
Suspend Time Out	This sets the timeout for Suspend mode in minutes. If the time selected passes without any system activity, the computer will enter powersaving Suspend mode.
Display Time Out	This sets the timeout for display device in minutes. If the time selected passes without any display activity, the display will enter power-saving mode.
Hard Disk Time Out	This sets the timeout for hard disk in minutes. If the time selected passes without any hard disk activity, the disk will enter power-saving mode.
Ring On Power On	The system can be turned off with a software command. If you enable this item, the system can automatically resume if there is an incoming call on the Fax/Modem. You must use an ATX power supply in order to use this feature.
KeyBoard Power On	If you enable this item, you can turn the system on and off by pressing hot keys on the keyboard. You must enable the Keyboard Power On jumper in order to use this feature.
RTC Alarm Power On / Date / Hour / Minute / Second	The system can be turned off with a software command. If you enable this item, the system can automatically resume at a fixed time based on the system's RTC (realtime clock). Use the items below this one to set the date and time of the wake-up alarm. You must use an ATX power supply in order to use this feature.

PCI / Plug and Play Setup Page

This page sets some of the parameters for devices installed on the PCI bus and devices that use the system plug and play capability.

AMIBIOS SETUP – PCI / PLUG AND PLAY SETUP (C) 2000 American Megatrends, Inc. All Rights Reserved		
Plug and Play Aware O/S Share Memory Size O/S Control Primary Graphics Adapter Allocate IRQ for PCI VGA	Yes 16MB Normal PCI Yes	ESC: Quit ↑↓←→: Select Item F1: Help PU/PD/+/-: Modify F5: Old Values (Shift)F2: Color F6: Load Optimal values F7: Load Best performance values

Plug and Play Aware O/S	Enable this item if you are using an O/S that supports Plug and Play such as Windows 95 or 98.
Share Memory Size	This item lets you allocate a portion of the main memory for use by the onboard VGA display.
O/S Control	This item lets you select Japanese operating system or not.
Primary Graphics Adapter	This item indicates if the primary graphics adapter uses the PCI or the AGP bus. The default PCI setting still lets the onboard display work and allows the use of a second display card installed in a PCI slot.
Allocate IRQ for PCI VGA	If this item is enabled, an IRQ will be assigned to the PCI VGA graphics system. You set this value to No to free up an IRQ.

Load Optimal Settings

If you select this item and press **Enter** a dialog box appears. If you press **Y**, and then **Enter**, the Setup Utility loads a set of fail-safe default values. These default values are not very demanding and they should allow your system to function with most kinds of hardware and memory chips.

Load Best Performance Settings

If you select this item and press **Enter** a dialog box appears. If you press **Y**, and then **Enter**, the Setup Utility loads a set of best-performance default values. These default values are quite demanding and your system might not function properly if you are using slower memory chips or other low-performance components.

Features Setup Page

This page sets some of the parameters for peripheral devices connected to the system.

AMIBIOS SETUP – PERIPHERAL SETUP (C) 2000 American Megatrends, Inc. All Rights Reserved		
OnBoard FDC OnBoard Serial PortA OnBoard Serial PortB Serial PortB Mode OnBoard Parallel Port Parallel Port Mode Parallel Port IRQ Parallel Port DMA OnBoard Game Port OnBoard MIDI Port MIDI Port IRQ OnBoard PCI IDE	Enabled 3F8h/COM1 2F8h/COM2 Normal 378h SPP 7 N/A 201h 300h 10 Both	
OnBoard AC'97 Sound OnBoard AC'97 Modem OnBoard LAN USB Function Support USB Function for DOS	Enabled Auto Enabled Enabled Disabled	ESC: Quit ↑↓←→: Select Item F1 : Help PU/PD/+/-: Modify F5 : Old Values (Shift)F2 : Color F6 : Load Optimal values F7 : Load Best performance values

OnBoard FDC	Use this item to enable or disable the onboard floppy disk drive interface.
OnBoard Serial PortA	Use this item to enable or disable the onboard COM1 serial port, and to assign a port address.
OnBoard Serial PortB	Use this item to enable or disable the onboard COM2 serial port, and to assign a port address.
Serial PortB Mode	Use this item to allocate the resources of the second serial port. Under Normal, the resources are allocated to the onboard serial port. Under ASKIR or IrDA, the resources are allocated to the

3: BIOS Setup Utility

onboard IR port.
Use this item to enable or disable the onboard LPT1 parallel port, and to assign a port address. The Auto setting will detect and available address.
Use this item to set the parallel port mode. You can select SPP (Standard Parallel Port), ECP (Extended Capabilities Port), EPP (Enhanced Parallel Port), or ECP + EPP.
Use this item to assign either IRQ 5 or 7 to the parallel port.
Use this item to assign a DMA channel to the parallel port. The options are 0, 1 and 3.
Use this item to enable or disable the onboard game port, and to assign a port address.
Use this item to enable or disable the onboard MIDI port, and to assign a port address.
Use this item to assign an IRQ to the MIDI port.
Use this item to enable or disable either or both of the onboard Primary and Secondary IDE channels.
This item enables or disables the onboard AC'97 audio chip.
This item enables or disables the onboard AC'97 modem chip.
This item enables or disables the onboard LAN chip.
Enable this item if you plan to use the USB ports on this mainboard.
Enable this item if you plan to use the USB ports on this mainboard in a DOS environment.

CPU PnP Setup Page

This page lets you manually configure the mainboard for the CPU. The system will automatically detect the kind of CPU that you have installed and make the appropriate adjustments to the items on this page.

AMIBIOS SETUP – CPU PnP SETUP ©2000 American Megatrends, Inc. All Rights Reserved		
CPU BRAND CPU Type CPU Speed CPU Core Voltage CPU Ratio CPU Frequency DRAM Frequency	AMD K7 Athlon 700 MHz 1.700 V 7.0x 100 MHz 100 MHz	
		ESC: Quit ↑↓←→: Select Item F1: Help PU/PD/+/-: Modify F5: Old Values (Shift)F2: Color F6: Load Optimal values F7: Load Best performance values

CPU BRAND/Type/ Core Voltage/Ratio /Frequency	These items show the kind, core voltage, ratio and frequency of CPU that has installed in your system.
CPU Speed	Use this item to set the CPU speed that has installed in your system.
DRAM Frequency	Use this item to set the frequency of DRAM that has installed in your system.

Note: If you manually set the wrong speed and the system won't run properly, press the **Page Up** key while the system is booting and a default setting will replace the incorrect CPU setting.

Hardware Monitor Page

This page sets some of the parameters for the hardware monitoring function of this mainboard.

AMIBIOS SETUP – HARDWARE MONITOR (C) 2000 American Megatrends, Inc. All Rights Reserved		
Hardware Monitor CPU Temperature System Temperature CPU Fan Speed System Fan Speed Vcore Vcc2.5V Vcc3.3V Vcc5.0V +12V -12V -12V SB3V SB5V Voltage Battery S0°C/86°F 30°C/86°F 2.000 V 2.000 V 2.000 V 2.000 V 2.000 V 2.000 V 3.300 V 5.000 V 5.000 V 5.000 V	ESC: Quit ↑↓←→: Select Item F1: Help PU/PD/+/-: Modify F5: Old Values (Shift)F2: Color F6: Load Optimal values F7: Load Best performance values	

CPU / System	These items display CPU and system temperature
Temperature	measurement.
FANs & Voltage	These items indicate cooling fan speeds in RPM
Measurements	and the various system voltage measurements.

Change Password

If you highlight this item and press **Enter**, a dialog box appears which lets you enter a Supervisor password. You can enter no more than six letters or numbers. Press **Enter** after you have typed in the password. A second dialog box asks you to retype the password for confirmation. Press **Enter** after you have retyped it correctly. The password is then required to access the Setup Utility or for that and at start-up, depending on the setting of the Password Check item in Advanced Setup.

Change or Remove the Password

Highlight this item, press Enter and type in the current password. At the next dialog box, type in the new password, or just press Enter to disable password protection.

Exit

Highlight this item and press Enter to save the changes that you have made in the Setup Utility configuration and exit the program. When the Save and Exit dialog box appears, press Y to save and exit, or press N to exit without saving.

Chapter 4

Software & Applications

The software for this mainboard is supplied on a CD-ROM. The disk has some folders that can be used by many different mainboards, for example the **UTILITY** folders. Some folders can only be used by mainboards which have certain brands of chipsets, for example the **INTEL** and **SIS** folders. In addition, software that is specifically intended for one kind of mainboard is stored in a folder with the name of that board. The software for this mainboard is stored in the **MS8308D/E** folder.

Note: Never try to install software from a folder that is not specified for use with your mainboard.

Folders for this Mainboard

For this board, you can install software from the following folders:

Utility Folder

You can use the software in the following sub-folders:	
	AMIFLASH: Software to erase and install new revisions of
	the system BIOS
	PC-CILLIN: Anti-virus software
	SUPER VIOCE: Fax/Modem application software
	GAMUT: Audio rack for built-in sound system
	MediaRing Talk: PC to PC base Internet phone application
	software
	Sunny Mail: Voice mail Program
	Corel WordPerfect Suite 8: Microsoft Windows® office
	application suite (optional)

Running the Support CD-ROM

- Place the disk in your CD-ROM drive. If you are running Windows with Autoplay enabled, the opening screen of the CD appears automatically. Click on READ ME to read the latest instructions.
- 2. Before installing the software, look for a file named README.TXT, or something similar. This file may contain important information to help you install the software correctly.
- 3. Some software is installed in separate folders for different operating systems, such as DOS, WIN NT, WIN95/98, and so on. Always log on to the correct folder for the kind of OS you are using.
- 4. To install the software, you usually execute a file named SETUP.EXE or INSTALL.EXE by double clicking on the filename.

Utility Folder Installation Notes

AMI Flash Memory Utility

This utility lets you erase the system BIOS stored on a Flash Memory chip on the mainboard, and lets you copy an updated BIOS to the chip. Take care how you use this program. If you erase the current BIOS and fail to write a new BIOS, or write a new BIOS that is incorrect, your system will malfunction. For this mainboard, you can use **Aminfxxx.EXE** (where xx is the version number). To use the utility, you must be in real-mode DOS (not the DOS box that is available in Windows 95/98/NT). If you are using WINDOWS 95/98, shut down your computer and select the option *Restart in DOS* in the shutdown dialog box. If you are running Windows NT, shut down your computer and boot from a DOS diskette temporarily in order to run the flash memory utility.

4: Software & Applications

PC-cillin Software

The PC-cillin software program provides anti-virus protection for your system. This program is available for:

- ☐ WinNT \UTILITY\PC-CILLIN\WINNT\SETUP.EXE
- Win9x \UTILITY\PC-CILLIN\WIN98\SETUP.EXE

Anti-virus software is provided for WINNT/2000 and WIN95/98.

GAMUT

The Gamut audio rack software for the built-in sound system is provided for different languages. Go to the directory \UTILITY\GAMUT and choose either the English or Chinese subdirectory; then run SETUP.EXE to install the application software.

MediaRing Talk

To install the MediaRing Talk voice modem software for the built-in modem, go to the directory \UTILITY\MEDIARING TALK; then run MRTALK-SETUP7.2.EXE to install the application software.

Super Voice

To install the Super Voice voice, fax, data communication application for use with the built-in fax/modem, go the directory \UTILITY\SUPERVOICE; then run PICSHELL.EXE to install the application software.

Mainboard (MS8308D/E) Installation Notes

Most of the sub-folders in this folder are empty, with a short README file giving directions to alternate folders for the appropriate software.