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Quick Installation

Chapter 1

Quick Installation

Before Installation

For installation, you may need some or all of the following tools: Medium size flatblade screwdriver

Medium size Phillips head screwdriver

A 3/16 inch nut driver or wrench



Users must follow these guidelines to ensure the motherboard is protected during installation.

1.Make sure your computer is pow ered-off whenever working in with inside components

2. The motherboard, like all other electronic equipment, is sensitive to static. Please take the proper precautions when handling it. If possible, ground yourself by touching a metal table or desk. keep the board in its conductive w rapping until it is configured and ready to be installed in your system.

3.Keep all magnets away from both your hard and floppy disk drives, especially magnetic screw drivers. Keep both floppy and hard disks apart if disassembed.

4.Keep water and liquids away from your computer and its components.

Quick Installation



Item Checklist

- [V] The motherboard
- [V] Operation manual
- [V] ATA 100/66 IDE cable
- [V] Floppy cable
- [V] Power Installer CD
- [V] 6 Channels Audio (with cable & Bracket)

Optional

- [] USB riser kit
- [] Thermal Sensor for System
- [] Infrared port cable
- [] Optional Module (SPDIF version only)
- [] IWILL Super Audio (for SPDIF)



Quick Installation





Quick Installation



Quick Installation



Quick Installation

ATX power connector



PIN No.	Definition	PIN No	Definition
1	+3.3V	11	+3.3V
2	+3.3V	12	-12V
3	Ground	13	Ground
4	+5V	14	Power Supply On
5	Ground	15	Ground
6	+5V	16	Ground
7	Ground	17	Ground
8	Pow er Good	18	-5V
9	+5V	19	+5V
10	+12V	20	+5V

Quick Installation

Front panel connector

Chapter 1



Function	PIN NO.	Definition
PWR_ON (Power/Soft_Off)	1,13	
A C PI (A C PI L E D)	3,4	PIN 3:Anode PIN 4:Cathode
ALED(IDE LED)	7,8	PIN 7:Anode PIN 8:Cathode
RST(RESET)	11,12	PIN 11:RST PIN 12:GND
PLED (System PowerLED)	15,16,17	PIN 15:VCC PIN 16:NC PIN 17:GND
KL (Keyborard Lock)	18,19	PIN 18:KL PIN 19:GND
SPKR(Speaker)	21,22,23,24	PIN 21:VCC PIN 22:NC PIN 23:NC PIN 24:SPEAK (BUZZ)

Features

Motherboard Components Placement



Feature

NO.	Description
1	CPU Socket (478 Pin)
2	i845 chipset
3	DIMM sockets
4	ATX Pow er connector/AT Pow er/ATX 12V
5	FDC connector
6	IDE connector
7	Intel ICH2 chipset
8	FWH chipset for programmable BIOS
9	PCI slots
10	CMI sound chip
11	AGPslot
12	Joystick, Midi Line In / Out, Microphone In
13	Parallel Port
14	COM1
15	COM2
16	USB
17	PS2 Mouse / Keyboard

Feature

Feature

Block Diagram



Feature

Specifications

Processor / (Socket478)

Supports 1 processors Supports 400M FSB (Front Side Bus) Supports Intel Pentium 4 CPU from 1.4 to 1.7 GHz and higher.

CPU Frequency/Voltage Selection

Supports Vcore selection from BIOS Supports CPU Multiplier selection from BIOS Supports CPU External Frequency selection from BIOS

<u>Memory</u>

Supports PC100/PC133 SDRAM Supports ECC DIMMs (Single bit error Correction, Multiple bit error Detection) Supports 16M/64M/128M/256M/512M DRAM technology Supports up to 3GB when using 512M technology DRAM Supports DIMM type 64Mb/128Mb/256Mb Technologies for x8 and x16 DEVICE

<u>Graphics</u>

Supports AGP 4X1.5V ONLY

General I/O

PCI 2.1/2.2 compliance Supports 32-bit/33MHz PCI interface Supports LPC interface Supports ATA33/ATA66/ATA100 IDE interface Supports Floppy interface Supports 16550AUART interface Supports ECP/EPP interface Supports PS2 interface Supports SIR/FIR/CIR interface Supports USB interface

Sound support

HW Sound controller on board Supports CMI8738 H/W 6 Channel and SPDIF Supports Game/MIDI interface Supports Win9X/WinNT/Win2000/Linux/Net Ware.

Management

Supports voltage monitoring (+12V/-12V/+5V/-5V/Vcore/Vcore2/VTT/VIO/Vbat/Vsb) Supports fan control signal (CPU/AUX/SYS1) Supports temperature sensor (CPU/AUX/SYS) Supports Chassis Intrusion Supports Power on by LAN/Ext. Modem/Int. Modem/PS2 Keyboard/ PS2 Mouse/RTC/PME Supports Resume by LAN/Ext. Modem/Int. Modem/PS2 Keyboard/ PS2 Mouse/RTC/PME Supports ACPI Supports APM Supports DMI Supports SMBUS Supports PnP Supports BIOS ROM Flash Control (3-pin jumper provide H/W & S/W protection) Supports "AC-Loss Recovery" Supports Manually Assign PCI IRQ Supports PS2 mouse and PS2 keyboard auto swapping

Power requirement

Onboard DC/DC switching voltage regulator supports VIO up to 10A current Descrete voltage regulator for AGP port Supports adjustable VIO (Normal/Increase 5%/Increase 10%, Normal=3.4V, jum per/BIOS) Supports 150A//us lccslew rate

Expansion Slot, Sockets and Connectors

One Socket478 socket Three DIMM sockets One AGP 1.5VAGP slots SIX 32bit/33MHz Bus Master PCI slots Two IDE connectors One FDC connector One Internal USBx2 connectors One ATX 20-pin power connector One ATX 4-pin power connector (ATX 12v for Vcore) One AT 6-pin power connector

Feature

Hardware Setup

Hardware Setup

Chapter 3

Intel Pentium 4 Processor Installation Procedure

- Make sure your chassis supports the Intel Pentium 4 processor. (A) Insert four standoffs into the four holes below the processor socket.
- (B) Install the motherboard into the chassis.
- (C) Secure the retention mechanisms into the four standoffs
- (D) Open the socket 478 handle
- (E) Install the Pentium 4 processor and close the socket handle
- (F) Apply some of the thermal cream to the top of the Pentium 4



Hardware Setup

Chapter 3

CPU Cooler Installation Notes

Align the Cooler base with the retention mechanisms and place it on the CPU. Starting with the center tab, install the clips to the retention mechanism tabs. Connect the processor fan cable connector to the motherboard header.



Hardware Setup

Install Memory Modules

The motherboard has three Memory sckets and supports memory size up to 3GB.

Step1:

Step3:



Open latches of DIMM socket.

Step2:



Proof read the RAM module to the DIMM Socket.



Insert the RAM module into the DIMM socket.

Step4:



Press the latches into the notches of the RAM module.

Hardware Setup

Chapter 3

ATX Power Supply Connector

Power on procedures

STEP	Description
1	After all connections are made, close the system case over.
2	Be sure that all switches are off.
3	Connect the pow er cord into the pow er suppply located on the back of your system case.
4	Connect the pow er cord a pow er outlet that is equipped with a surge protector.
5	Many of the pow er supply support 110V/220V by a switch setting. Switch your pow er supply to the correct supply voltage.
6	Turn on your system in the follow ing order a. The monitor b. The external devices. c. The computer system.



The power LED on the front panel of the chassis will light. After few seconds, the system will then run poweron tests. Some additional messages will appear on the screen during the test. If you do not see anything within 30 seconds from the time you turn on the power, the system may have failed a power-on test. Recheck the jumper settings and connections or call your retailer for assistance.

Hardware Setup

Back Panel

Function	color	Description	
PS2/Mouse	Green	This connector can be used to support a PS/2 mouse	
PS2/ keyboard	Purple	This connector can be used to support a PS/2 keyboard.	
Universal Serial Bus	Black	This motherboard has two USB ports, any USB-compatible peripherals and/or hub can be connected into either USB port.	
Serial port	Teal	One serial port is ready for a modem or other serial devices	
Parallel port	Burgundy	This connector is used for printers, or other parallel devices.	
Joystick, Midi and Audio Port	Gold	You may connect joysticks or game pads to this connector for playing games, or connect MIDI devices for playing / editing professional audio. Line Out (Lime color) can be connected to headphones or pow ered speakers. Line In (Light Blue color) allow s audio sources to be recorded by your computer or played through the Line Out connector. Mic (Pink color) allow s microphones to be connected for inputting voice.	

BIOSSetup

BIOS Setup BIOS Setup Upgrade BIOS

The BIOS can be upgraded from a diskette with the Award Flash utility — AWDFLASH.EXE. The BIOS image file, and update utility are available from IWILL's WEB site: <u>support.iwill.net</u>

Enter BIOS setup program

Power-on the system by either pressing the Power-On button, or by using any of the power-on features provided by the motherboard. Then, press the key after the Power-On Self Test (POST), and before the scanning of IDE devices. Simply look for the message "Press DEL to enter SETUP" displayed at the bottom of the screen during the boot up process. If the message disappears before you've had a chance to respond, you can restart the system bytuming off the system power then turn it on again, orPressing the "RESET" button on the system case, or

Pressing <Ctrl>, <Alt> and keys simultaneously.



Generally, the BIOS default settings have been carefully chosen by IWILL's Engineers provide the absolute maximum performance and reliability. It is very dangerous to change any setting without full understanding. We strongly recommend that you. DO NOT update BIOS if the system works perfectly. DO NOT change any setting unless you fully understand what it means.

BIOSSetup

Using BIOS setup program

ưUp ưDown ư Left ư Right <esc></esc>	Move to the previous field Move to the next field Move to the field on the left hand side Move to the field on the right hand side Quit from setup program without saving changes,or Exit from current menu page and return to main menu page
<pgup> or <+></pgup>	Select the previous value for a field
<pgdn> or <-></pgdn>	Select the next value for a field
<f1></f1>	General Help
<f2></f2>	Item Help
<f5></f5>	Previous Values
<f6></f6>	Fail-SafeDefaults
<f7></f7>	OptimizedDefaults
<f10></f10>	Save the current value and exit setup program

If the system is no longer able to boot after changing the settings, the only way to recover it is to clear the data stored in RTC CMOS. To reset the RTC CMOS data, take the JP1 jumper cap off pins 1-2, place onto pins 2-3, and then place back onto pins 1-2 again. This will return the RTC to the default setting. Then, get into the BIOS setup program , choose Load Fail-Safe Defaults ; Load Optimized Defaults, and select the original manufacturer default settings in your CMOS.

BIOSSetup

Main Menu

The main menu allows you to selectfrom several setup pages. Use the arrow keys to select among these pages and press <Enter> keyto enter the sub-menu. Abrief description of each highlighted selection appears at the bottom of the screen.

CMOS Setup Utility-Copyright(c) 1984-2001 Aw ard Softw are			
► Standard CMOS Features	► IWILL Smart Setting		
Advanced BIOS Features	Load Fail-Safe Defaults		
Advanced Chipset Features	Load Optimized Defaults		
Integrated Peripherals	Set Supervisor Passw ord		
Pow er Management Setup	Set User Password		
PnP/PCI Configurations	Save & Exit Setup		
► PC Health Status	Exit Without Saving		
ESC: Quit $\uparrow \downarrow \rightarrow \leftarrow : \text{Select Item}$ F10: Save & Exit Setup			
Time, Date Hard Disk Type			

Stardard CMOS features

Data (mmudduuu)	Mag. Ive 48 2004	lite en 1 le le
Time (hh:mm:ss)	Mon, Jun 18 2001	item Heip
11116 (1111.11111.33)	15.17.40	
IDE Primary Master	[None]	Menu Level 🕨
IDE Primary Slave	[None]	
IDE Secondary Master	[None]	Change the day, month
IDE Secondary Slave	[None]	year and century
	[1 44M 2 Ein 1	
Drive R	[1.4410,3.5111.]	
Floppy 3 Mode Support	[Disabled]	
riopp) o modo oupport	[5:000:00]	
Video	[EGA/VGA]	
Halt On	[All Errors]	
Base Memory	640k	
Extended Memory	523264K	
Total Memory	524288K	

BIOSSetup

Date

This field specifies the current date. The date format is <month>, <day>, and <year>.

Time

This field specifies the current time. The time format is <hour>, <minute>, and <second>. The time is calculated based on the 24-hour (military-time) clock.

IDE Primary Master / Primary Slave / Secondary Master / Secondary Slave

Press "Enter" to enter next page for detail hard drive setting.

IDE HDD Auto-Detection

Auto-Detect the HDDs Capacity, and its parameters, ex: Cylinder, Head and Sector.

IDE Primary Master / Primary Slave / Secondary Master / Secondary Slave

This field specifies type of drive that corresponds to the drive installed in your system. If you select User, please specify the correct number of Cylinders, Heads, and Sectors.

Manual	Selecting anual lets you set the remaining fields on this screen. Selects the type of fixed disk.
Auto (Default Vaule)	BIOS automatically fills in the values for the cylinders, heads and sectors fields.
None	Any Disk Drives are attached

Capacity Auto Display your disk drive size

Access MODE

This field specifies the IDE translation mode.

NORMAL	Specifies traditional CHS addressing mode.
LARGE	Specifies extended CHS translation mode
LBA	Specifies LBA translation mode.
AUTO (Default Vaule)	BIOS specifies translation method automatically.

BIOSSetup

Cylinders Set the number of cylinders for this hard disk. Heads Set the number of read/write heads Precomp Setting a value of 65535 means no hard disk Sectors

Set the number of sectors per track

Drive A / Drive B

This field specifies the traditional type of floppy drives.

None (*Drive B default)	Any Floppy drive is connected
360K, 5.25 in.	Specifies extended CHS translation mode
1.2M, 5.25 in.	A 1.2M floppy drive is connected
720K, 3.5 in.	A 720K floppy drive is connected.
1.44M, 3.5 in. (*Drive A default)	A 1.44M floppy drive is connected
2.88M, 3.5 in.	A 2.88M floppy drive is connected

Floppy 3 Mode Support

3 Mode floppy drive is a type of 3.5-inch drive used by NEC PC98 computers. It supports both 1.2M and 1.44M formats using the same drive. This field specifies which drive supports 3 Mode. When a floppy drive is specified to support 3 Mode, the respective drive setting in "Drive A/ Drive B" field will be invalid.

Disabled (Default Value)	No 3 Mode drive is connectedd
Drive A	A 3 Mode drive is connected as drive A
Drive B	A 3 Mode drive is connected as drive B
Both	Both drive A and drive B are 3 Mode drives

BIOSSetup

Video

EGA/VGA (Default Value)	Specifies EGA or VGA adapterd
CGA 40	Specifies CGA adapter with 40 column mode
CGA 80	Specifies CGA adapter with 80 column mode
MONO	Specifies Monochrome adapter

Halt On

All Errors (Default Value)	Each time the BIOS detects a non-fatal error, the system will stop and display an error message
No Errors	The system will stop for any errors that are detected
All, But Keyboard	The system will stop for any errors except keyboard error
All, But Diskette	The system will stop for any errors except diskette error
All, But Disk/Key	The system will stop for any errors except diskette and key board errors

Base Memory

The POST (Power-On Self Test) determines the amount of base (conventional) memory installed in the system. The value of the base memory is typically 640K. This field has no options.

Extended Memory

The BIOS determines how much extended memory is present during the POST. This is the amount of memory located above 1MB in the processor's memory address map. This field has no options.

Total Memory

Displays the total memory available in the system

BIOSSetup

Advanced BIOS Features

CMOS Setup Utility-Copyright(c) 1984-2001 Aw ard Softw are Advanced BIOS Features			
Virus Warning CPUL1 & L2 Cache	[Disabled] [Enabled]	ltem Help	
CPU Fast-Strings CPU Fast-Strings Quick Haver On Self Test Hirst Roof Device Second Boo Device Bool Other Device Swep Hoppy Sock Bool Up Hoppy Sock Sock (Sock Sock Sock Socurity Option OS Select Fart BRAMSBAME Report No FDD For WIN 95	[Enabled] [Enabled] [Enabled] [HDD-0] [SCS1] [Enabled] [Disabled] [Cn] [Fast] [Disabled] 6 250 [Setup] [Non-OS2] [No]	Menu Level Allow s you to choose the VIRUS w arning feature for IDE Hard Disk boot sector protection. If this function is enabled and someone attempt to w rite data into this area, BIOS w ill show a w arning message on screen and alarm beep	
↓			

Virus Warning

When this function is enabled and any attempt to write data into this area is made, the BIOS monitorwill displaya warning message on screen and beep. If you want to run an anti-virus program, we recommend you that it will disable and appear the Virus Warning function beforehand.

[Enabled, Disabled (Default Value)]

CPU L1& L2 Cache

This field configures the CPU L1 & L2 cache.

[Enabled(Default Value), Disabled]

CPU Fast-Strings

Enabled is bestfor performance.

[Enabled(Default Value), Disabled]

Quick Power On Self Test

This field allows the system to skip certain tests while booting. This will decrease the time needed to boot the system. [Enable(**Default Value**), Disabled]

BIOSSetup

First / Secondary / Third / Boot Other Device

The BIOS attempts to load the operating system from the devices in the sequence selected in these items. [Floppy, LS120, HDD-0, SCSI, CDROM, HDD-1, HDD-2, HDD-3, ZIP100, LAN, Disabled]

Swap Floppy Drive

When enabled, floppy drives Aand B will be exchanged without the user physically changing the connection on the cable.

[Enable, Disabled(Default Value)]

Boot Up Floppy Seek

Seeks disk drives duringboot up. Disabling speeds boot up.

[Enabled, Disabled (Default Value)]

Boot Up NumLock Status

This field determines the configuration of the numeric keypad after system boot up. If On, the keypad uses numbers keys. If Off, the keypad uses arrow keys.

[ON(Default Value),Off]

Gate A20 Option

This field configures how the gate A20 is handled. The gate A20 is a device used to address memory above 1 MB. At first, the gate A20 was handled from a pin on the keyboard. While some keyboards still provide this support, it is more common, and much faster, for modern system chipsets to provide support for gate A20.

[Fast(Default Vaule):GateA20 signal supported by core logic]

[Normal: GateA20 signal supported bykeyboard controller].

Typematic Rate Setting

This field determines if the typematic rate is to be used. When enabled, the BIOS will report (after a moment) that the key has been depressed repeatedly. When disabled, the BIOS will report only once if a key is held down continuously. This feature is used to accelerate cursor movements using the arrow keys.

[Enable, Disabled(Default Value)]

BIOSSetup

Typematic Rate (Chars/Sec)

When Typematic Rate Setting enabled, this field specifies how many characters will be displayed in one second when a key is held down continuously.

[5(Default Value)8,10,12,15,20,24,30]]

Typematic Delay (Msec)

When enabled, typematic delay allows you to select the time delay between when the key is first pressed and when the acceleration begins.

[250msec(Default Value)500msec,750msec,1000msec]

Security Option

This field configures how the system security is handled. It works conjunction with SETTING SUPERVISOR / USER PASSWORD page to control the security level of the system.

[Setup(**Default Value**):System needs a pæsword to enter BIOS setup program.]

[System:System needs a password to boot.]

OS Select for DRAM >64MB

When enabled, this field allows you to access the memorythat is over 64MB under OS/2.

[OS2, Non-OS2(Default Value)]

Report No FDD For WIN 95

For a floppy diskless system that runs Windows 95, this field should be set tp Yes.

[YES, NO(Default Value)]

BIOSSetup

Advanced Chipset Features

This setup page is used to specify advanced features available through the chipset. The default settings have been chosen carefully for most operating conditions. DONOT change the value of anyfield in this setup page without full understanding.

CMOS Setup Utility-Copyright(c) 1984-20 Advanced Chipset Featu	01 Aw ard Softw are Ires
Advanced Chipset Featu DRAM Timing Selectable [By SPD] x CAS Latency Time 3 x Active to Precharge Delay 6 x DRAM RAS# to CAS# Delay 3 x DRAM RAS# Precharge 3 DRAM Data Integrity Mode Non-ECC System BIOS Cacheable [Enabled] Video BIOS Cacheable [Disabled] Video RAM Cacheable [Disabled] Video RAM Cacheable [Disabled] Delayed Transaction [Enabled] AGP A perture Size (MB) [64] Delay Prior to Thermal [16 Min]	ires Item Help Menu Level ►
) ↓	e ESC: Exit F1: General Help

DRAM Settings

The first chipset settings deal with CPU access to dynamic random access memory (DRAM). The default timings have been carefully chosen and should only be altered if data is being lost. Such a scenario might well occur if your system had mixed speed DRAM chips installed. Longer delays might result, however this preserves the integrity of the data held in the slower memory chips.

DRAM Timing Selectable

Selects Whether DRAMTiming is controlled by the SPD. It is serial presence detect.

[By SPD (Default Value), By User]

CAS Latency Time

This controls the number of clocks between the SDRAM read command and the time that the data actually becomes available.

[2, 3(Default Value)]

BIOSSetup

DRAM RAS# to CAS# Delay

This controls the number of docks between the SDRAM active command and the read / write command. [2,3(**Default Value**)]

DRAM RAS# Precharge

If an insufficient number of cycles is allowed for the RAS to accumulate its charge before DRAM refresh, the refresh may be incomplete and the DRAM may fail to retain data. This controls the idle(delay) clocks after issueing a prechange command to the SDRAM.

[2,3(Default Value)]

System BIOS Cacheable

When enabled, accesses to the system BIOS will be cached. [Enable(**Default Value**),Disabled]

Video BIOS Cacheable

When enabled, access to the video BIOS will be cached.

[Enable, Disabled(Default Value)]

Video RAM Cacheable

When Disabled, access to the video memory located at A0000H to BFFFFH will be cached.

[Enabled, Disabled (Default Value)]

Delayed Transaction

When enabled, the south bridge ICH2 will supports the Delayed Transaction mechanism when it is the target of a PCI transaction. [Enable(**Default Value**),Disabled]

AGP Aperture Size (MB)

This field configures the main memory size for AGP graphics data used.

[4MB, 8MB, 16MB, 32MB, 64MB(Default Value), 128MB, 256MB]

BIOSSetup

Integrated Peripherals

CMOS Setup Utility-Copyri Integra	ght(c) 1984-2001 ated Peripherals	Aw ard Softw are
On-Chip Primary PCI IDE On-Chip Secondary PCI IDE	[Enabled] [Enabled] 🔶	ltem Help
IDE Primary Master PIO	[Auto] [Auto]	Menu Level 🕨
IDE Secondary Master PIO	[Auto]	
IDE Secondary Slave PIO	[Auto]	
IDE Primary Master UDMA	[Auto]	
IDE Primary Slave UDMA	[Auto]	
IDE Secondary Master UDMA		
USBController	[Disabled]	
USB Keyboard Support	[Disabled]	
Init Display First	[AGP]	
IDE HDD Block Mode	[Enabled]	
POWER ON Function	[BUTTON ONLY]	
x kB Pow er ON Passw ord	Enter	
x Hot Key Pow er ON	Ctrl-F1	
Onboard FDC Controller		
Onboard Serial Port 2	[2F8/IRQ3]	
	Normall	
x RxD. TxDActive	Hi, Lo	
x IR Transmission Delay	Enabled	
x UR2 Duplex Mode	Half	
x Use IR Pins	IR-Rx2Tx2	
Onboard Parallel Port	[378/IRQ7]	
Parallel Port Mode	[SPP] EPP1 0	
x EPP Mode Select	3	
PWRON After PWR-Fail	[Off]	
SCR Port Address	[Disabled]	
x SCR Port IRQ	11	
//→ ← : Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help F5: Previous Values F6: Fall-Safe Defaults F7: Optimized Defaults		

BIOSSetup

On-Chip primary/Secondary PCI IDE

This field enables or disables the onboard IDE controller. [Enable(**Default Value**),Disabled]

IDE Primary Master / Slave PIO IDE Secondary Master / Slave PIO

These fields configure the PIO (Programmable Input Output) transfer mode for each IDE devices. The maximum transfer rates of each PIO mode are listing as follow:

PIO Mode 0 PIO Mode 1 PIO Mode 2 PIO Mode 3 PIO Mode 4	3.3 5.2 8.3 11 16.	MB/sec MB/sec MB/sec 6 MB/sec
Auto (Default Val Mode 0 Mode 1 Mode 2 Mode 3 Mode 4	le)	Negotiated with device automatically Use Mode 0 timing to access device Use Mode 1 timing to access device Use Mode 2 timing to access device Use Mode 3 timing to access device Use Mode 4 timing to access device

IDE Primary Master / Slave UDMA IDE Secondary Master / Slave UDMA

If you select Auto, the IDE controller uses Ultra DMA33/66 Mode to access UltraDMA-capable IDE devices. Depend on the resent of negociation with your HDD. The maximum transfer rate of Ultra DMA66 Mode is 66.6 MB/sec.

[Auto(Default Value), Disabled]

USB Controller

SelectDisabled if your system contains USB peripherals.

[Enable, Disabled(Default Value)]

USB Keyboard Support

Select Enabled if you want to use USB keyboard under DOS [Enable, Disabled(**Default Value**)]

[Ellable, Disabled(Delault valu

Init Display First

This item allows you to decide which slot to activate first, either PCI slot or AGP slot.

[PCI Slot,AGP(Default Value)]

BIOSSetup

IDE HDD Block Mode

When enabled, the IDE controller will use the faster block mode to access devices.

[Enable(Default Value), Disabled]

Power-On Function

This field configures the Power-On mode of the system. The Power-Onbutton will not function in this mode.

Passw ord	You can assign a passw ord string through KB Pow er-On Pass w ord field.
Hot KEY	You can assign a hot key through the Hot Key Power-On field.Pressing this hot key will power- on your system.
Mouse/ Passw ord	Double-Clicking the mouse button or typing the KB pow er-on passw ord will automatically pow er-on your systrem
Mouse/Hot KEY	Double-Clicking the mouse button or typing the KB hot-key will power-on your systrem
BUTTON ONLY (Default Value)	Simply pow er-on your system by pressing the Pow er-On button on the front panel of your PC case
Keyboard 98	Enables Keyboard 98 function. This founction is good only for users of Keyboard 98.

KB Power ON Password

If you wish to use this function, bring the cursor to the field written Enter, then press <Enter>. The computer will display the message, Enter Password". Type your password and press <Enter>. After the message Confirm Password is displayed, re-type your password. The KB Power-On function will be in effect after you save and exit setup.

To disable a password, bring the cursor to the Enter" field again, then press <Enter>. The computer will display the message, Enter Password Press <Enter>. Amessage will confirm that the password is disabled.

BIOSSetup

Hot Key Power-On

This field specifies keyselection for the Keyboard-Power On hot key.

[Ctrl-F1,Ctrl-F2,Ctrl-F3,Ctrl-F4,Ctrl-F5,Ctrl-F6,Ctrl-F7,Ctrl-F8,Ctrl-F9, Ctrl-F10,Ctrl-F11,Ctrl-F12]

Onboard FDC Controller

This field enables or disables the onboard floppy controller. [Enable(Default Value), Disabled]

Onboard Serial Port 1/2

These fields configure the onboard serial ports. There are several port addresses and IRQchannels to select from.

3F8 / IRQ 4 (Default Vaule)	Port address 3F8h, IRQ 4
2F8 / IRQ 3 (Default Vaule)	Port address 2F8h, IRQ 3
3E8 / IRQ 4	Port address 3E8h, IRQ 4
2E8 / IRQ 3	Port address 2E8h, IRQ 3
Auto	BIOS assigns port address and IRQ channel automatically.
Disabled.	Disables serial port

UART Mode Select

[IrDA, ASKIR, Normal(Default Value)]

RxD, TxD Active for IrDA and ASKIR functions

When setting the field to either IrDA or ASKIR, you must select the active level of receiving and transmission signal. Hijo(Default Value)/Lo,Hi/Lo,Lo/Hi,Hi]

IR Transmission delay for Ir DA and ASKIR functions

When setting the field to either $\mbox{IrDAor}\,ASKIR$, you must select whether or not you require a delay between IR transmissions. [Enabledl(Default Value), Disabled]

BIOSSetup

UR2 Duplex Mode

[Full,Half(Default Value)]

Use IR Pins [RxD2,TxD2,IR-Rx2Tx2(Default Value)]

Onboard Parallel Port

This field configures the onboard parallel port. There are several port addresses and IRQ channels to select from.

378 / IRQ 7 (Default Value)	Port address 378h, IRQ 7
278 / IRQ 5	Port address 278h, IRQ 5
3BC / IRQ 7	Port address 3BCh, IRQ 7
Disabled	Disables parallel port

Parallel Port Mode

This field configures the operating mode of an onboard parallel port. Ensure you know the specifications of your parallel port devices before selecting field.

[SPP(Default Value), EPP, ECP ECP+EPP]

EPP Mode Select

When the Parallel Port Mode field is configured as EPP, ECP+EPP mode, the EPP version needs to be specified. Please refer to your peripheral document before selecting field.

[EPP1.7:Use EPP1.7 protocol]

[EPP1.9 (Default Value):Use EPP 1.9protocol]

ECP Mode Use DMA

When the Parallel Port Mode field is configured as ECP, ECP+EPP mode, it needs a DMAchannel for data transfer. This field specifies the DMAchannel for ECP parallel port use.

[1:Use DMA channel 1]

[3(Default Value):Use DMAchannel1]

BIOSSetup

Power Management Setup

CMOS Setup Utility-Copyright(c) 1984-2001 Aw ard Softw are Pow er Management Setup		
Pow er Management Video Off Method	[User Define]	Item Help
Video Off In Suspend	[Yes]	Menu Level 🕨
Suspend Type	[Stop Grant]	
MODEM Use IRQ	[3]	
APM Suspend Timer	[Disabled]	
APM HDD Pow er Dow n Timer	[Disabled]	
PWR-OFF Mode by PWR-BTTN	[Instant-Off]	
Wake Up by PCI card	[Disabled]	
Wake Up by Ring/LAN	[Disabled]	
CPU THRM-Throttling	[62.5%]	
PWROn/Resume by Alarm	[Disabled]	
x Date (of Month) Alarm	0	
x Time (hh:mm:ss) Alarm	0:0:0	
Reset APM Timer Events		
Primary IDE 0	[Disabled]	
Primary IDE 1	[Disabled]	
Secondary IDE 0	[Disabled]	
Secondary IDE 1	[Disabled]	
FDD, COM, LPT Port	[Disabled]	
PCI IRQ#	[Disabled]	
1 → ←: Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults		

Each power-saving mode has a respective timer. The value of the timer can be assigned or reloaded and it will count down to zero. When the timer equals to zero, the system will be forced into the related suspend or power-saving mode. If any predefined signal or event is detected during the timer counting period, the timer restarts automatically.

Power Management

This feature allows the user to select the default parameters for the power-saving mode.

Min saving	When idle for one hour, the system entersuspend mode.
Max Saving	When idle for fifteen minutes, the system enters suspend mode.
User Define (Default Vaule)	User can specify the time the system enters suspend mode.

BIOSSetup

Video off Method

V/H SYNC+Blank (Default Vaule)	Turn off the vertical and horizontal synchronization ports and write blanks to the video buffer.
Blank Screen	Writes blanks to the video buffer only.
DPMS	Initial display pow er management signaling w ith DPMS.

Video Off In Suspend

This determines the manner in which the monitor is blanked. [NO,Yes(**Default Value**)]

Suspend Type

Select the Suspend Type.

[PwrOn Suspend, Stop Grant (Default Value)]

MODEM Use IRQ

This determines the IRQ in which the MODEM can use.

B(Default Value),4,5,7,9,10,11,NA]

APM Suspend Timer

This field specifies the time the system enters power-saving mode. It is available only when the Power Management field is set to User Define.

[1Min, 2Min, 4Min, 8Min, 12Min, 20Min, 30Min, 40Min, 1Hour, Disabled (Default Value)]

APM HDD Power Down Timer

This field specifies the time the system enters HDD power down. It is available only when the Power Management field is set to User Define.

[1 Min, 2 Min, 3 Min, 4 Min, 5 Min, 6 Min, 7 Min, 8 Min, 9 Min, 10 Min, 11 Min, 12 Min, 13 Min, 14 Min, 15 Min, Disabled **(Default Value)**]

PWR-Off Mode by PWR-BTTN

This field specifies the function of power button. [Instant-Off(**Default Value**):When power button pressed, the system

turns off immediately.]

[Delav 4 Sec: After the power button has been pressed andheld for four seconds, the system tums off.]

BIOSSetup

Wake up by PCI card [Enabled, Disabled(Default Value)]

Wake up by RING/LAN

When Wake up by LAN function is enabled, the PC can power-on or "wake up" through LAN (Local Area Network). When Wake up by RING function is enabled, the PC can power-on through an external modem connected to your PC.

[Enabled, Disabled(Default Value)]

CPU THRM-Throttling

87.5%	Keep 87.5% of CPUs full speed performance
75.0%	Keep 75.0% of CPUs full speed performance
62.5% (Default Vaule)	Keep 62.5% of CPUs full speed performance
50.0%	Keep 50.0% of CPUs full speed performance
37.5%	Keep 37.5% of CPUs full speed performance
25.0%	Keep 25.0% of CPUs full speed performance
12.5%	Keep 12.5% of CPUs full speed performance

PWROn/Resume by Alarm

When enabled, you can set the date and time to automatically power-on your PC (similar to an alarm clock).

Enabled	Sets Date (0-31) and Timer (hr, min, sec) to power-on the PC. When date is set to 0, the Timer is set for every day.
Disabled (Default Vaule)	Disables RTC alarm function

Reset APM Timer Events

This field enables the system to detect activity, and restart the timer of the power-saving mode.

Primary IDE 0

If enabled, timer restarts whenever the master disk of the primary IDE channel is active. [Enabled, Disabled (**Default Value**)]

BIOSSetup

Primary IDE 1

If enabled, timer restarts w henever the slave disk of the primary IDE channel is active. [Enabled, Disabled (Default Value)] Secondary IDE 0 If enabled, timer restarts whenever the master disk of the secondary IDE channel is active. [Enabled, Disabled (Default Value)] Secondary IDE 1 If enabled, timer restarts whenever the slave disk of the secondary IDE channel is active. [Enabled, Disabled (Default Value)] FDD,COM,LPT PORT/ [Disabled(Defaultvalue),Enabled] PCI IRQ# [Disabled(Defaultvalue),Enabled]

BIOSSetup

PnP/ PCI Configurations

CMOS Setup Utility-Copyright(c) 1984-2001 Aw ard Softw are PnP/PCI Configurations			
PNP OS Installed Reset Configuration Data	[No] [Disabled]	ltem Help	
Resources Controlled By x IRQ Resources x Memory Resources	[Auto (ESCD)] Press Enter Press Enter	Menu Level Select Yes if you are using a Plug and Play capable operation system Select No if	
PCI/VGA Palette Snoop	[Disabled]	you need the BIOS to configure non-boot devices	
↓ → ←: Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help E5: Pravious Values E6: Eail Safe Defaults E7: Ontimized Defaults			

PNP OS Installed

The field specifies whether a Plug and Play operating system is installed.

[Yes,No(Default Value)]

Reset Configuration Data

Normally, you leave this field Disabled. Select Enabled to reset Extended System Configuration Data (ESCD) when you exit Setup if you have installed a new add-on and the system reconfiguration has caused such a serious conflict that the operating system can not boot.

[Enabled, Disabled(Default Value)]

BIOSSetup

Resources Controlled By

The Award Plug and Play BIOS has the capacity to automatically configure all of the boot and Plug and Play compatible devices. However, this capability means absolutely nothing unless you are using a Plug and Play operating system such as Windows98/95/NT. If you set this field to "manual" choose specific resources by going into each of the sub menu that follows this field (a sub menu is preceded by a " \emptyset ").

[Manual: Resources controlled by the user.

Auto(ESCD)(**Default Vaule**): Resources controlled by BIOS automatically]

IRQ Resources

When resoruces are controlled manually, assign each system

interrupt a type, depending on the type of device using the interrupt.

IRQ3/4/5/7/9/10/11/12/14/15 assigned to

[PCI/ISA PnP (Default Value), Legacy ISA]

DMA Resources

This sub menu can let you control the memory resource.

ReservedMemoryBase

Reserved a low memory for the legacy device (non-PhP device).

[C800,CC00,D000,D400,D800,DC00,N/A(Default Value)]

Reserved Memory Length

Reserved a low memory length for the legacy device (non-PnP device).

[8K(Default Value),16K,32K,64K]

PCI / VGA Palette Snoop

This field controls the ability of a primary PCI graphics controller to share a common palette with an ISA/VESA video or MPEG card.

Enabled	PCIVGA co-works with ISA MPEG card
Disabled (Default Vaule)	All cases except above.

BIOSSetup

PC Health Status This page is monitoring your status of computer. On the screen displays CPU/System temperature, FAN speed, and voltages.

CMOS Setup Utility-Copyright(c) 1984-2001 Aw ard Softw are PC Health Status			
CPU Warning Temperature Current CPU Temperature Current SYS Temperature Current SYS Temperature Current CPUFAN Speed Current AUXFAN Speed Current SYSFAN Speed Vcore. +1.8v +3.3v + 5v +12v -12v - 5v VBAT(V) 5VSB(V) Shutdow n Temperature	[Dis abled] 21 C/69 F 28 C/82 F 45 C/113 F 4500RPM 0 RPM 1.71V 1.79V 3.36V 5.24V 12.34V - 12.69V - 5.04V 3.28V 5.24V [Dis abled]	Item Help Menu Level ►	
N→ ←: Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults			

IWILL Smart Setting

CMOS Setup Utility-Copyright(c) 1984-2001 Aw ard Softw are IWILL Smart Setting		
IWILL S THE CPU IS THE CPU ID IS THE CPU EXPECT SPEED IS CPU Micro Code Updated to Spread Spectrum =**= IWILL Micro Stepping CPU Clock CPU Clock Ratio DRAM Clock CPU Vcore Setting BIOS-ROM Flash Protect	Intel Pentium / 0F0A 100 X 15.0 MHz 0009 (Dicablec) =**= [100] [X15.0] [Auto] [Non Tlast]	Item Help Menu Level ►
t ↓ → ← : Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults		

BIOSSetup

IWILL MicroStepping

MicroStepping

Microstepping is lwill's anotherstep forward to provides users a fuss free CPU frequency set up procedure. It contains two main functions, AutoDetecting CPUs speed and Micro Adjustable CPU FSB speed.

Auto Detecting CPU speed:

IWILL MicroStepping will auto detect the CPU's factory multiplier setting and CPU FSB to the factory default. This function provides a "fuss free" CPU setup process for the general users.

Micro Adjustable CPU FSB speed:

IWILL provides a user friendly overclocking function that allows users to experience the fun of overclocking. This function allows user to adjust CPU FSB by 1MHz interval. This is particularly useful when user wants to extract the most out of the purchased CPU. For example: you select from 133, 134, 135, 136, 137, 138MHz and up to the maximum speed that the system can sustained. In the time should overclocking failed, MicroStepping will auto detects the CPU's factory multiplier setting and set the CPU FSB to default 66MHz, to protect the CPU installed.

Spread Spectrum

This item configures radiation emitted from the system. When enabled, system will release less radiation

[Enabled,Disabled(Default Value)]

CPU Vcore Setting

This item display the current status of CPU voltages.

[Auto (Default Value), 1.125V, 1.150V, 1.175V, 1.200V,1.225V, 1.250V,1.275V,1.300V,1.325V,1.350V,1.375V,1.400V,1.425V, 1.450V,1.525V,1.550V,1.575V,1.600V,1.625V,1.650V,1.675V, 1.700V,1.725V,1.750V,1.775V,1.800V,1.825V,1.850V]

BIOS-ROM Flash Protect

When select "Non flash", the BIOS ROM chip will be protecte to prevent injuring by Virus "please don't select Flashable" until you have to upgrade the latest BIOS.

[Non-Flash(Default Value), Flashable]

BIOSSetup

Load Fail Safe Defaults

When you press <Enter> on this item you get a confirmation dialog box with a message similar to: Pressing 'Y' loads the BIOS default values for the most stable, minimal-performance system operations.

CMOS Setup Utility-Copyright(c) 1984-2001 Aw ard Softw are			
 Standard CMOS Features Advanced BIOS Features 	IWILL Smart Setting Ioad Fail-Safe Defaults		
Advanced Chipset Features	Load Optimized Defaults		
Integrated Peripherals	Set Supervisor Passw ord		
 Pow er Manaç PnP/PCI Conf Load Fail-Safo 	e Defaults (Y/N)?		
PC Health Stand	/ing		
ESC: Quit │ ↓ → ← : Select Item F10: Save & Exit Setup			
Load Fail-Safe Defaults			

Load Optimized Defaults

When you press <Enter> on this item you get a confirmation dialog box with a message similar to:



BIOSSetup



Set Supervisor/User Password Setting

Chapter 4

These setup pages are used for password setting. When a password has been enabled and the Security Option field is set as Setup, you will be required to enter the password every time you try to enter BIOS Setup program. This prevents an unauthorized person from changing any part of your system configuration. Additionally, if the Security Option field is set as Boot, the BIOS will request a password every time your system boot. This would prevent unauthorized use of your computer.

If you wish to use this function, bring the cursor to this field, then press <Enter>. The computer will display the message, "Enter Password". Type your password and press <Enter>. After the message onfirm Password" is displayed, re-type your password. The Supervisor Password function will be in effect after you save and exit setup.

To disable a password, bring the cursor to this field, then press <Enter>. The computer will display the message, "Enter Password". Press <Enter>. Amessage will confirm that the password is disabled. Once the password is disabled, the system will boot and you can enter setup program freely.

BIOSSetup

Save & Exit Setup

Saves current CMOS value and exit BIOS setup program.

CMOS Setup Utility-Copyright(c) 1984-2001 Aw ard Softw are			
 Standard CMOS Features Advanced BIOS Features Advanced Chipset Features Integrated Peripherals 	 IWILL Smart Setting Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password 		
 Pow er Man PnP/PCI Co PC Health Succession 	and EXIT(Y/N)?		
ESC: Quit F10: Save & Exit Setup			
Save Data to CMOS			

Exit Without Saving

Abandons all CMOS value changes and exits BIOS setup program.



Onboard Audio

Chapter 5

On board Audio

Audio Features

Special Feature

- 1. Full-duplexplayback and recording. Built-in 16-bit CODEC.
- 2. HRTF 3D positional audio, supporting both DirectSound 3D&A3D interfaces. Also supports earphones, 2/4/6 channel speakers mode.
- 3. Support Windows 98/Windows 2000 and Windows NT 4.0.
- 4.Built-in 32 OHM Earphone buffer.
- 5. MPU-401 Game/Midi port and legacy audio SB Pro support.
- 6. Downloadable Wave Table Synthesizer, supporting Direct Music.

Digital Audio (SPDIF IN/OUT)

- 1. Up to 24-bit stereo 44KHz sampling rate; voice playback/ recording
- 2. Full-duplexplayback and recording. 120dB audio quality measured.
- 3. Auto detectable SPDIF/IN signal level from 0.5V to 5V.



120 dB audio quality in playback, recording, and by pass modes.

Onboard Audio

StereoMixer

- 1. Stereo analog mixing from CD-Audio and Line-in
- 2. Stereo digital mixing from Voice, FMWave-table, and Digital CD-Audio
- 3. Mono mixing from MIC. Software adjustable volume.

Game and Midi Interface

Fully compatible with MPU-401 Midi UART and Sound Blaster Midi mode/Standard IBM PC joystick/game port

Onboard Audio

IWILL 6Channels Audio/ SuperAudio (Optional)

Connectors and Jumpers

JP5	Audio Extension (Digital I/O) Connector
JP7	CD-SPDIF IN
JP10	BASS/Center Select
Line-IN	LINE-IN Connect to the audio output port of stereo
Mic-IN	Connect to the Microphone (Mono)
Front- Speaker	Output to speakers with the amplifier or earphones or AUDIO-IN of home stereo
Rear-Speaker	Connect to the rear speakers while four/six channel speakers mode is enabled
Center/BASS	Connect to the center speaker and BASS while six channel speakers mode is enabled
GAME/MIDI	Connect to Joystick or devices using MIDI interface
RCA SPDIF IN/OUT	Connects to digital audio devices such as DAT and MiniDisc recorders, via RCA input/output
Optical SPDIF IN/OUT	Connects to digital audio devices such as DAT and MiniDisc recorders, via optical input/output







Onboard Audio

Chapter 5

Driver Installation

DOS Installation

Before beginning the installation, please make sure that your hard disk has sufficient space(min. 4MB). Insert the Power Installer CD into the CD-ROMDrive.

- 1. Change directory to PCI audio DOS drivers folder (ex. D:\DOSDRV) at DOS prompt, and type: *INSTALL*[Enter]
- 2. Type the DOS utilities path you want to install the file in.
- 3. Program will expand the file to the path you've specified.
- 4. Install program will add initial drivers into AUTOEXEC.BAT file.

Win 95/98/ME/2000 Installation

- 1. Click "Start" at Windows bottom-left corner.
- 2. Select "Run"
- 3. Keyin the drive path where the installation CDand installation program are in; for example, "D:\SETUP.EXE"
- 4. Click "OK" to start the applications installation procedure, and follow the on-screen instructions to complete the installation.
- 5. When all the application software has been installed, please shut down Windows system, and reboot your system for new driver installation. System will install the device drivers automatically.

Win 95/98/ME/2000 Un-Installation

- 1. Click "Start"
- 2. Select "Program."
- 3. Find "Uninstall device drivers and applications" program in PCI audio applications.
- 4. Run it.
- 5. Follow the on-screen instructions to uninstall the device drivers or applications.

Onboard Audio

Windows NT4.0 Installation

We recommend that you have Microsoft Windows NT intalled, and remove any exsisting sound drivers from your current system, before you install this PCI sound device driver.

- 1. Click "Start", move the highlight bar to "Setting", and select the "Control Panel".
- 2. Double-click "Multimedia."
- 3. Select "Devices", and press "Add"
- 4. Select "Unlisted or Updated Driver" in List of Drivers."
- 5. Specify the drive path where NT drivers are in (such as D:\NT40\DRV).
- 6. Select "C-Media CM8738," and press "OK".
- 7. Select proper I/O value.
- 8. Press "OK."
- 9. Restart the system when being asked.
- 10. Now, you have already installed the PCI Audio Adapter under Microsoft Windows NT 4.0 successfully. If you want to install the Windows applications, continue the following steps.
- 11. Click "Start"
- 12. Select "Run"
- 13. Key in drive path where the Windows NT application installation program are in; for example, "D:\NT40\APP\SETUP.EXE
- 14. Click "OK" to start the installation procedure, and follow the onscreen instructions to complete the installation. When all of application software has been installed, shut down the Windows NT system, then reboot your system.

Onboard Audio

Chapter 5

The Audio Rack

Introduction

By means of a user-friendly interface (as easy as operating your home stereosystem), this PCI audio rack provides you with the control over your PC's audio functions, including the advantage of six speakers mode enable/disable, and perfect digital sound (SPDIF version ONLY) input / output. control.



About Audio Rack

The Audio Rack is consisted of several major components. Control Center Controls the display of the PCI Audio Rack's components.

- 0

Audio Reick CO Pat Per St

MIDI Plaver

MIDI Player can play MIDI files, *.mid/*.rmi, and allow you to create your ow n playlist.

MP3/Wave Player

Records and plays digital audio (mp3/w ave) files. Allow syou to create wave file playlists, and playback the wave files.

CDPlayer

Plays standard audio CDs. Allow s you to create your favorite song playlists.

Mixer

Controls the volume level of your audio inputs and outputs

Onboard Audio

Mixer Volume Control

Coresi a Heating	말		T	8	뿌	甲		甲	0
Advanced	9.KUME	- CD	• M22		O MIDI	●ALX101	1400S	•LBIR II	.e

For each output signal, the control slider regulates the loudness whereas a horizontal slider the balance between the two speakers. The mute button can temporarily stop the output without changing slider positions. Abutton with a lit LED means the output is available, and vice versa. Several output signals can usually be enabled at once.

Volume: This is the master control over all outputs. The power of an outputR e signal is determined by both of the volume slider and the slider for the individual output. To modify all the outputs, adjust the volume slider. To change individual output(s), adjust its(their) slider(s).

CD: Regulates the CD drive audio input level. **MIC:** Regulates the input level of microphone.

WAVE: Regulates wave (voice) playback levels.

MIDI: Regulates the MIDI music play level. AUX IN: Regulates the Auxiliary input play level.

MONO IN: Regulates the Mono input level.

LINE IN: Regulates the Line-In levels.

Advanced: Regulates the advanced settings.

Recording Control

Bovering	믭		中中	-		(D) ++
Advanced	• 00	• MDC • MARKE		*LINE IN	SPORT	-

For each inputsignal, a control slider regulates the loudness whereas a horizontal slider the balance between the two channels. The se lectbutton can temporarily select input signal without changing slider positions. Abutton with a litLED means it is available, and vice versa.

CD: Regulates the CD drive audio input level. **MIC:** Regulates the input level of microphone. **WAVE:** Regulates wave (voice) playback level. **FM:** Regulates the FM music play level. **AUX IN:** Regulates the Auxiliary input play level.

LINE IN: Regulates the Line-In level.

SPDIF IN: Enables the recording from SPDIF in. SPDIF-in is mutu ally exclusive with other input signals. *Advanced:* Regulates the advanced settings.

<u>Onboard Audi</u>o

Advanced - SPDIF

SPDIF IN loopb	ack to SPDIF OUT (by	pass}	
Enable SPDIF (
Montoi SHUIFT	IN LOIGTER SHUT IN S	gnal pass to analog LINE UUT	1
SPDIF IN device.	(* SPDIF IN #)	C SPDIF IN #2	
SPDIF IN Format	· 🕫 Normal	C Inverse	
Enable SPDIF I	N/OUT Copyright prote	sction	
Enable SPDIFT	N Validity detection		

SPDIF dialog provides a full control over SPDIF IN/OUT functions. You can use these settings to connect your computer to other pieces of audio device, such as: Mini Disc players, amplifiers...etc.

Advanced - Speakers

Speakers dialog provides an interface allowing you to setyour speakers configurations. First, You should make sure what model type your speakers are, and what the correct configurations are. And this dialog also shows the current status and functions of the phone jacks of your audio device. You can always refer to this to make sure whether or not the connections of your speakers and microphone are correct.

peaken	Come	eta .
C Heathan		
C 25cemmi		8
C 4 Spanner		8
Spawers Bast J.J.E. (round to Force L. D.)		•
r 515padies Berchstonale	5	Liebh
Difference in the second se	0	Manadaaaala
Endle SPD F OUT	0	Leve Quit/Front Speakers Coll
Tarte state and age at to me call	0	Line Hubfley Speaks: But
Tatieve be ad ignationate	0	Centre, Exboraction Speed on Ext.

Onboard Audio

Chapter 5

Advanced - Sound effects

Advanced	and the second	2
SPDIF Speaker	s Volume Sound Effect Options	
🔽 Enable Rev	rerberation	
Environment	Default Generic Paddedcell Room Bathroom Livingroom Stoneroom Auditorium Concerthall Cave ▼	
	ОК	Cancel Apply

Sound effects dialog allows you to modify the special effects of the song and game being played. Currently, these effectors can only be used for the player or the game which utilizes DirectSound 2Dand 3D to playback their music.

Advanced - Options

Volume + :	□ Alt	🔽 Ctrl 🗌	Shift 🗖	Window	A	-	
Volume - :	🗖 Alt	Ctrl 🔽	Shift 🗖	Window	В	-	
Mute :	🗖 Alt	Ctrl 🔽	Shift 🗖	Window:	C	<u> </u>	
Mixer Show/Hide:	🗖 Alt	Ctrl 🔽	Shift 🗖	Window:	D	-	
Load Mixer Def	aults						

Options dialog provides a hot key setting to control the Mixer in an easyway. Please note that other applications might be affected by this if you use the same hot key setting.

Please use 'Load Mixer Defaults' to change all settings to default values.