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Quick Installation

Chapter 1

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-Channel Audio (Bracket)

Optional

IWILL SuperAudio (for SPDIF) USB riser kit Thermal Sensor for System Infrared port cable

Before Installation



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

1.Make sure your computer is powered-off.

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 wrapping 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 screwdrivers. Keep both floppy and hard disks apart if disassembed.

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

Quick Installation

Chapter 1

999 JP25 Socket462 **500** J39 JP10 UU IDE1 DEO UU ALİ Alimagiki ^{M1647} EXT_IDE0 **** Iwiii KA266plus-R EXT_IDE1 2 •••• J54 ALi RAID 100 J43 December december J34 C 3DX HSP56 CM 8738 **680** JP19 1919 J41 J69 J46

Layout

Quick Installation	1
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Connectors/Panel and Jumper Definition
JP1 (Clear CMOS Function)
JP10 (VIO)
JP19 (RAID)
JP20 (Audio Jumper)
JP25 (Keyboard Power On)
JP31 (Front Side Bus)
J34A (EXT_USB)
J39 (CPU Fan)
J41 (System Fan)
J42 (Auxiliary Fan)
J43 (Front Panel Connector)
J45 (Infrared Connector)
J46 (Wake-ON-LAN)
J53 (AUX_IN)
J54 (CD_IN)
J64 (SPDIF and 6 Channel Bracket [Optional])
J69 (Wake-ON-MODEM)



Quick Installation



Jumpers/Connectors















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	Power Good	18	-5V
9	+5V	19	+5V
10	+12V	20	+5V



Function	PIN NO.	Definition
PWR_ON (Power/Soft_Off)	1,13	
A C P I(A C P I 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 (Keyboard 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	
2	ALi M1647 chipset	
3	DIMM sockets	
4	ATX Power connector	
5	IDE connector	
6	FDC connector	
7	IDE RAID Channels (KA266plus-R only)	
8	ALi M1535D+ chipset	
9	IDE RAID Chip (KA266plus-R only)	
10	Programmable BIOS ROM	
11	PCI slot	
12	CMI 6 Channel sound chip	
13	AGP slot	
14	Joystick, Midi Line In / Out, Microphone In	
15	COM2	
16	COM1	
17	Parallel Port	
18	USB	
19	PS2 Mouse / Keyboard	

Feature

Feature

Block Diagram



Feature

Specifications

Processor / (Socket A)

Supports 1 Processor Supports DDR200/266 MHz FSB (Front Side Bus) Supports AMD Athlon CPU from 700 MHz to 1.33 GHz and higher Supports AMD Duron CPU from 600 MHz to 850 MHz and higher

CPU Frequency/Voltage Selection

Supports Vcore selection by BIOS Supports CPU Multiplier selection by BIOS Supports CPU External Frequency selection by Jumpers/BIOS

Memory

Supports DDR SDRAM Supports DDR200/DDR266 (PC1600/ PC2100) DDR Module Supports 66/100/133 MHz memory frequency Supports up to 3GB DRAM

Graphics

Supports AGP 2X/4X slot

General I/O

PCI 2.2 compliance Supports 32-bit/33MHz PCI interface Supports ATA100 IDE interface Supports Floppy interface Supports 16550A UART interface Supports ECP/EPP interface Supports PS2 interface Supports SIR/FIR/CIR interface Supports OHCI USB interface

RAID Support (KA266plus-R only)

Supports 2 ATA100 channels Supports RAID Level 0/1/0+1 Supports "SPARE" feature

Feature

Sound support

Supports CMI8738 H/W 6 Channel speakers Supports SPDIF (through IWILL SuperAudio) (Optional) Supports Game/MIDI interface Supports Win9X/WinNT/Win2000/Linux.

Management

Supports voltage monitoring Supports fan control signal Supports temperature sensor 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 BIOS ROM Flash Control Supports Manually Assign PCI IRQ

Power requirement

Supports adjustable Vcore (by BIOS)

Expansion Slot, Sockets and Connectors

One Socket A solt Three DDR solts One AGP slot Five 32bit/33MHz Bus Master PCI slots Two IDE RAID connectors

Others

ATX Form Factor 305mmx244mm 4 Layer design

Hardware Setup

Hardware Setup

Install the Processor

The CPU should have a fan attached to prevent overheating. If this is not the case, then purchase a fan before you turn on your system.

Be sure that there is sufficient air circulation across the processors heatsink by regularly checking that your CPU fan is working. Without sufficient circulation, the processor could overheat and damage both the processor and the motherboard. You may install an auxiliary fan, if necessary.

Step1:

Pull the lever sideways away from the socket. Lever it into a 90-degree angle.



Step3:

Press the lever down to close the scoket.



Step2:

Locate Pin 1 in the socket and Match it with the white dot. Please insert the CPU.



Hardware Setup

Install Memory Modules

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

Step1:

Step3:



Open latches of DIMM socket.

Step2:



Proofread the DIMM slot to have 2 Notches, so it can fit in one direction.



Please Insert the DIMM memory module into the DIMM slot.

Step4:



The clip at the side of the DIMM slot will close.

Hardware Setup

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





Hardware Setup



Hardware Setup

IWILL 6Channels Audio

Chapter 3

IWILL SuperAudio (Optional)



Hardware	Setup
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ATX Power Supply Connector Power on procedures

Chapter 3

STEP	Description	
1	After all connections are made, close the system case over.	
2	Be sure that all switches are off.	
3	Connect the power cord into the power suppply located on the back of your system case.	
4	Connect the power cord a power outlet that is equipped with a surge protector. Many of the power supply support 110V/220V by a switch setting. Switch your power supply to the correct supply voltage.	
5		
6	Turn on your system in the following 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 powered speakers. Line In (Light Blue color) allows audio sources to be recorded by your computer or played through the Line Out connector. Mic (Pink color) allows microphones to be connected for inputting voice.	

BIOS Setup

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: *support.iwill.net*

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 by turning off the system power then turn it on again, or Pressing 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.

BIOS Setup

Using BIOS setup program

∞Up ∕≊Down ∕≊Left	Move to the previous field Move to the next field Move to the field on the left hand side
🖉 Right	Move to the field on the right hand side
<esc></esc>	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-Safe Defaults
<f7></f7>	Optimized Defaults
<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.

BIOS Setup

Main Menu

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

CMOS Setup Utility-Copyright(c) 1984-2001 Award Software			
Standard CMOS Features	► IWILL Smart Setting		
Advanced BIOS Features	Load Fail-Safe Defaults		
Advanced Chipset Features	Load Optimized Defaults		
Integrated Peripherals	Set Supervisor Password		
Power Management Setup	Set User Password		
PnP/PCI Configurations	Save & Exit Setup		
► PC Health Status	Exit Without Saving		
ESC: Quit F10: Save & Exit Setup	↑ ↓ → ← : Select Item		
Time, Date Hard Disk Type			

Stardard CMOS features

CMOS Setup Utility-Co Stan	opyright(c) 1984-2 dard CMOS Featur	001 Award Software es
Date (mm:dd:yy) Time (hh:mm:ss)	Mon, Jun 18 2001 15:17:48	Item Help
► IDE Primary Master ► IDE Primary Slave	[None] [None]	Menu Level 🕨
 IDE Secondary Master IDE Secondary Slave 	[None] [None]	Change the day, month, year and century
Drive A Drive B Floppy 3 Mode Support	[1.44M,3.5i n.] [None] [Disabled]	
Video Halt On	[EGA/VGA] [All Errors]	
Base Memory Extended Memory Total Memory	640k 523264K 524288K	
↑↓ : Move Enter: Select +/	-/PU/PD: Value F10: Sav	ve ESC: Exit F1: General Help

BIOS Setup

Date

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

снѕ	Specifies traditional CHS addressing mode.	
Large	Specifies extended CHS translation mode	
LBA	Specifies LBA translation mode.	
Auto (Default Vaule)	BIOS specifies translation method automatically.	

BIOS Setup

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	

BIOS Setup

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

BIOS Setup

Advanced B	IOS Features	1 Award Software
Virus Warning CPU Internal Cache External Cache	[Disabled] [Enabled]	Item Help
External Cache CPU L2 Cache ECC Checking Quick Power On Self Test First Boot Device Second Boot Device Third Boot Device Boot Other Device Boot Up Floppy Drive Boot Up Floppy Seek Boot Up Floppy Seek Boot Up NumLock Status Gate A20 Option Typematic Rate (Chars/Sec) X Typematic Rate (Chars/Sec) X Typematic Rate (Chars/Sec) Security Option OS Select For DRAM>64MB Report No FDD For WIN95 Video BIOS Shadow C8000-CBFFF Shadow D4000-DFFFF Shadow D8000-DFFFF Shadow D8000-DFFFF Shadow	[Enabled] [Disabled] [HDD-0] [SCSI] [Enabled] [Disabled] [Disabled] [Fast] [Disabled] [Stup] [Non-OS2] [Noj [Disabled] [Disabled] [Disabled] [Disabled] [Disabled] [Disabled] [Disabled] [Disabled] [Disabled]	Menu Level Allows you to choose the VIRUS warning feature for IDE Hard Disk boot sector protection. If this function is enabled and someone attempt to write data into this area, BIOS will show a warning 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 monitor will display a 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 Internal Cache

This field configures the CPU internal cache(L1 cache).

[Enabled(Default Value), Disabled]

External Cache

This field configures the system's external cache(L2 cache).

[Enabled(**Default Value**), Disabled]

CPU L2 Cache ECC Checking

This field specifies whether the CPU L2 cache supports ECC or not.

[Enable, Disabled(Default Value)]

BIOS Setup

Quick Power On Self Test

This field allows the system to skip certain tests while booting.

This will decrease the time to need booting the system.

[Enabled(Default Value), Disabled]

First / Second / 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, USB-ZIP, USB-CDROM, USB-HDD, LAN, Disabled]

Swap Floppy Drive

When enabled, floppy drives A and 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 during boot up. Disabling speeds boot up.

[Enabled(Default Value), Disabled]

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 by keyboard 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)]

BIOS Setup

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.

[6(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 password 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 memory that 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)]

Video BIOS Shadow

Setting to enabled, the video BIOS will be copied to the system memory and increase the video speed accordingly. [Enabled(Default Value), Disabled] C8000-CBFFF/CC000-CFFFF/D0000-D3FFF/D4000-D7FFF/ D8000-DBFFF/DC000-DFFFF Shadow

Setting to enabled, the extended ROM data located at the respecitive address range will be copied to system memory. [Enalbed, Disabled(**Default Value**)]

BIOS Setup

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. DO NOT change the value of any field in this setup page without full understanding.

PCI2: 1 for PCI66 Side System BIOS Cacheable Video RAM Cacheable AGP Aperture Size AGP Delay Stage Memory Hole At 15M-16M I/O Recovery Period Passive Release	[Enabled] [S2 clks] [Enabled] [Disabled] [64MB] [6] [Disabled] [1 us] [Disabled]	Menu Level 🕨
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DRAM Timing Select

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.

SDR DRAM CAS Select

Select the number of clock cycles of CAS latency depends on the DRAM timing.

[2, 3 (Defautl Value)]

Refresh Queue

Select the depth value of the DRAM refresh quenue. [Disabled, Depth 2, Depth 4, Depth 8 (Default Value)]

BIOS Setup

DRAM Performance

Select the performance parameter of the installed DRAM. Do not reset this field from the default value by the system designer unless you install new memory that has a different performance rating than the original DRAMs.

[Failsafe, Slow, Normal (Default Value), Fast, Ultra, Ultra2]

Enhance Page Mode Timer

Select the preset value of the Page Life Timer counter. When disabled, the open pages mode will not be closed even the PLT counter expired.

[16 clks, 32 clks (Default Value), 64 clks, 128 clks, Disabled]

Refresh Rate

Select the rating for DRAM refresh control.

[Normal (Defautl Value), 15.6us, 7.8us]

AT Bus Clock

Select the speed of the AT bus in terms of a fraction of the CPU clock speed, or at the fixed speed of 7.16 MHz.

[7.16MHz, CLK2/2, CLK2/3, CLK2/4 **(Default Vaule)**, CLK2/5, CLK2/6]

PCI 33 Delay Transaction

The chipset has embedded 32-bit posted write buffer to support delayed transaction cycles. When enable, the system is compliant with PCI specification version 2.2.

[Enabled (Default Value), Disabled]

PCI 2.1 for PC I33 Side

PCI 2.1 latency compliant mode for primary Bus.

[Enabled (Default Value), Disabled]

PCI 2.1 for PCI 66 Side

PCI 2.1 latency compliant mode for Primary Bus.

[32 clks (Default Vaule), 64 clks, Disabled]

System BIOS Cacheable

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

BIOS Setup

Video RAM Cacheable

When enabled, access to the Video RAM will be cacahed. [Enabled, Disabled(**Default Value**)]

AGP Aperture Size

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

[1MB, 2MB, 4MB, 8MB, 16MB, 32MB,64MB(**Default Value**), 128MB, 256MB]

AGP Delay Stage

[2, 3, 4, 5, 6 (Default Value), 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17]

Memory Hole At 15M-16M

This systme memory area can be reserved for ISA adapter ROM. When reserved, this area cannot be cached. Please refer to information regarding the memory requirements of your system peripherals.

[Enabled, Disabled (Default Value)]

I/O Recovery Period

This item allows you to determine the recovery time allowed for I/O [0 us, 1 us **(Default Value)**, 2 us, 3 us]

Passive Release

When enabled, CPU to PCI bus accesses is allowed during passive release. Otherwise, the arbiter only accepts another PCI master access to local DRAM. [Enabled, Disabled (Default Value)]

BIOS Setup

Integrated Peripherals

CMOS Setup Utility-Copyright(c) 1984-2001 Award Software Integrated Peripherals		
OnChip IDE Channel0 OnChip IDE Channel0 OnChip IDE Channel1 Primary Master PIO Primary Master PIO Secondary Master UDMA Primary Master UDMA Primary Slave UDMA Secondary Master UDMA OnChip USB Port x USB Keyboard Under DOS Init Display First IDE HDD Block Mode POWEP ON Expedience	(Enabled) [Enabled] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Disabled] Disabled [AGP] [Enabled] [Enabled] [Enabled]	Item Help Menu Level 🕨
x KB Power ON Password x Hot Key Power ON Onboard FDC Controller Onboard Serial Port 1 Onboard Serial Port 2 Onboard Serial Port 3 UART Mode Select RxD, TxD Active IR Duplex Mode Fast IR Mode Use DMA Onboard Parallel Port Parallel Port Mode ECP Mode Use DMA	Enter Ctrl-F1 [Enabled] [3F8/IRQ4] [2F8/IRQ3] [Disabled] IrDA Hi, Lo Half 1 [378/IRQ7] [SPP] 3	
1 → : Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help F5: Previous Values F6: Fail-Safe Defaults F7: Ontimized Defaults		

OnChip IDE Channel 0/1

This field enables or disables the onboard IDE controller. [Enable(**Default Value**), Disabled] **Primary Master / Slave PIO** 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	ue)	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

BIOS Setup

Primary Master / Slave UDMA Secondary Master / Slave UDMA

If you select Auto, the IDE controller uses Ultra DMA 33/66 Mode to access Ultra DMA-capable IDE devices. Depend on the resent of negociation with your HDD. The maximum transfer rate of Ultra DMA 66 Mode is 66.6 MB/sec.

[Auto(Default Value), Disabled]

Onchip USB port

Select Enabled if your system contains USB peripherals.

[Enable, Disabled (Default Value)]

USB Keyboard under DOS

Select to Enabled if you want to use USB keyboard under DOS.

[Enable, Disabled (Default Value)] 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)]

IDE HDD Block Mode

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

[Enabled(Default Value), Disabled] Power-On Function

This field configures the Power-On mode of the system.

The Power-On button will not function in this mode.

Password	You can assign a password string through KB Power-On Pass word 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 Left / Right	Double - Clicking The PS/2 mouse Left / Right button will power on the system .
Button only (Default Value)	Simply power-on your system by pressing the Power-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.

BIOS Setup

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 is displayed,retype 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>. A message will confirm that the password is disabled.

Hot Key Power-On

This field specifies key selection 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.

[Enabled(Default Value), Disabled]

Onboard Serial Port 1

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

3F8 / IRQ 4 (Default Vaule)	Port address 3F8h, IRQ 4
2F8/IRQ3	Port address 2F8h, IRQ 3
3E8 / IRQ 4	Port address 3E8h, IRQ 4
2E8 / IRQ 3	Port address 2E8h, IRQ 3
Disabled.	Disables serial port

BIOS Setup

UART Mode Select

[IrDA (Default Value), ASKIR, TFDS6000, HSDL3600, HSDL1100]

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.

[Hi ,Lo(Default Value) /Lo,Hi/Lo,Lo/Hi,Hi]

IR Duplex Mode

[Full,Half(Default Value)]

Fast IR Mode Use DMA

[1(Default Value),3]

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)**, EPP1.9, ECP, ECP+EPP1.9, EPP1.7, ECP+EPP1.7]

ECP Mode Use DMA

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

[1:Use DMA channel 1]

[3(Default Value): Use DMA channel 1]

BIOS Setup

Power Management Setup

Power Mangemen	[User Define]	Item Help
PM Control by APM		
	[3]	MenuLevel 🕨
Video Off In Suspend		
	[V/HSTNC+Blank]	
PM Timers		
APM HDD Power Down Timer	[Disabled]	
APM Suspend Timer	[Disabled]	
PWR-OFF Mode by PWR-BTTN	[Instant-Off]	
Wake Up by PCI Card	[Disabled]	
Wake Up by Ring/LAN	[Disabled]	
PWROn/Resume by Alarm	[Disabled]	
x Date (of Moth) Alarm	0 ·	
x Time (hh:mm:ss) Alarm	0 0 0	
Reset APM Timer Events		
IRQ[1] (KeyBoard)	[Enabled]	
IRQ[3]	[Disabled]	
IRQ[4]	[Disabled]	
	[Disabled]	
IRQ[6] (FIOPPY DISK)		
	[Disabled]	
IRQ[12] (PS2 Mouse)		
IPO[15] (Secondary IDE)		
Ru[15] (Secondary IDE)	[Disabled]	

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 signal or event is detected during the timer counting period, the timer restarts automatically.

BIOS Setup

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 enters suspend mode.

Max Saving:

When idle for fifteen minutes, the system enters suspend mode.

User Define(Default Value):

User can specify the time the system enters suspend mode.

PM Control by APM

Setting to enabled, an Advanced Power Management (APM) protocol will be activated to handle the power-saving mode.

[NO(Default Value), Yes]

MODEM Use IRQ

This determines the IRQ in which the MODEM can use.

[NA, 3 (Default Value),4,5,7,9,10,11]

Video Off In Suspend

This determines the manner in which the monitor is blanked.

[NO, Yes (Default Value)]

Video off Method

V/H SYNC+Blank (Default Value):

Turn off the vertical and horizontal synchronization ports and write blanks to the video buffer.

Blank Screen:

Write blanks to the video buffer only.

DPMS:

Initial display power management signaling with DPMS.

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.

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

BIOS Setup

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)]

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, *Delay4 Sec:*

After the power button has been pressed and held for four seconds, the system turns off.

Wake up by PCI card

When enabled , you can "wake-up" your system using PCI rev.2.2 card , when a "PME" event occuring.

[Enabled, Disabled (Default Value)]

Wake up by Ring / LAN

When enabled , the system can " power-on" or "wake-up" through LAN (Local Area Network) or an external modem connected to the PC.

[Enabled, Disabled (Default Value)]

PWROn / Resume by Alarm

When enabled, you can set the date and time to automatically "power-on" or "wkae-up" your PC (similar to an alarm clock). *Enabled:*

Setting to 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 Value):

Disable RTC alarm function.

IRQ1~IRQ15

If set to Enabled, the specified IRQ line will prevent the system from entering power saving modes.

Enables or disables the monitoring of the specified IRQ line.

BIOS Setup

PnP/ PCI Configurations

CMOS Setup Utility-Copyright(c) 1984-2001 Award Software PnP/PCI Configurations			
PNP OS Installed Reset Configuration Data Resources Controlled By x IRQ Resources PCI/VGA Palette Snoop PCI IRQ Actived By	[No] [Disabled] [Auto (ESCD)] Press Enter [Disabled] [Level]	Item Help Menu Level ► Select Yes if you are using a Plug and Play capable operation system Select No if you need the BIOS to configure non-boot devices	
↑↓ : Move Enter: Select +/-/PU/PD: E5: Provious Volume E6: Fail Sofe Defaulte E7: Optimized Defaulte			

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)]

BIOS Setup

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 "Ø").

[Manual: Resources controlled by the user.]

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

IRQ Resources

When resources 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/Device (Default Value), Reserved]

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:PCI VGA co-works with ISA MPEG card.]

[Disabled (Default Value): All cases except above.]

PCI IRQ Actived By

This sets the method by which the PCI bus recognizes that an IRQ service is being requested by a device. Under all circumstances, you should retain the default configuration unless advised otherwise by your system's manufacturer.

[Level (Default Value), Edge]

BIOS Setup

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-Copyri PC	ght(c) 1984-200 lealth Status	1 Award Software
CPU Warning Temperature	[Disabled]	Item Help
Current CPU femperature Current SYS Temperature Current SYSFAN Speed Vcore. +3.3v + 5v + 12v Shutdown Temperature	47 C/16F 35°(/95°F 4571 RPM 0 RPM 1.80V 3.39V 5.01V 12.20V [70°C/158°F]	Menu Level 🕨
↓ → ← : Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help		

IWILL Smart Setting

CMOS Setup Utility-Copyright(c) 1984-2001 Award Software IWILL Smart Setting		
THE CPU IS THE CPU ID IS CPU Micro Code Updated to Spread Spectrum =**= IWILL Micro Stepping CPU Clock CPU Clock Ratio CPU Vcore Setting PCI Clock Divider BIOS-ROM Flash Protect	AMD Athlon(TII) xxx [Disabled] =**= [100] [Auto] [Auto] [Auto] [Non-Flash]	Item Help Menu Level ►
$\label{eq:constraint} \bigwedge \to \ \ \ \ \ \ \ \ \ \ \ \$		

BIOS Setup

Iwill MicroStepping

MicroStepping

Microstepping is Iwill's another step forward to provides users a fuss free CPU frequency set up procedure. It contains two main functions, Auto Detecting 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 set up 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] PCI Clock Divider This item is PCI clock frequency. For example: Auto =>automatically

CPU/3 => CPU=100,100/3=33.3

CPU/4 => CPU=133,133/4=33.3

[Auto (Default Value),CPU/3,CPU/4]

BIOS Setup

BIOS-ROM Flash Protect

When select"Nonflash", the BIOS ROM chip will be protecte to prerent injuring by Virus "please don't select Flashable" until you have to upgrade the latest BIOS. [Non-flash **(Defult Value)**,Flashable]

BIOS Setup

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 Award Software		
► Standard CMOS Features	► IWILL Smart Setting	
Advanced BIOS Features	Load Fail-Safe Defaults	
► Advanced Chipset Features	Load Optimized Defaults	
Integrated Peripherals	Set Supervisor Password	
► Power Manac	ord	
► PnP/PCI Con Load Fail-Saf	e Defaults (Y/N)? _{الم}	
► PC Health Sta	ving	
ESC: Quit $\uparrow \downarrow \rightarrow \leftarrow$: 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:



BIOS Setup

CMOS Setup Utility-Copyright(c) 1984-2001 Award Software				
 Standard CMOS Features Advanced BIOS Features Advanced Chipset Features Integrated Peripherals Power Management Setup 	 IWILL Smart Setting Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password 			
 PnP/PCI Cor PC Health St 	ord: ng			
ESC: Quit F10: Save & Exit Setup $\uparrow \downarrow \rightarrow \leftarrow$: Select Item				
Change/Set/Disable Password				

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 on firm 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>. A message will confirm that the password is disabled. Once the password is disabled, the system will boot and you can enter setup program freely.

BIOS Setup

Save & Exit Setup Saves current CMOS value and exit BIOS setup program.

CMOS Setup Utility-Copyright(c) 1984-2001 Award Software				
Standard CMOS Features	► IWILL Smart Setting			
Advanced BIOS Features	Load Fail-Safe Defaults			
Advanced Chipset Features	Load Optimized Defaults			
Integrated Peripherals	Set Supervisor Password			
► Power Man	vord			
► PnP/PCI Cc SAVE to CMOS	S and EXIT(Y/N)?			
► PC Health S	ving			
ESC: Quit F10: Save & Exit Setup ↑↓ → ← : Select Item				
Save Data to CMOS				

Exit Without Saving

Abandons all CMOS value changes and exits BIOS setup program.



On board Audio

Chapter 5

On board Audio

Audio Features

Special Feature

- 1. Full-duplex playback 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-duplex playback 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.

On board Audio

Stereo Mixer

- 1. Stereo analog mixing from CD-Audio and Line-in
- 2. Stereo digital mixing from Voice, FM/Wave-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

On board Audio

Driver Installation

Chapter 5

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-ROM Drive.

- 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. Key in the drive path where the installation CD and 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.

On board 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.
- 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"
- 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.

On board Audio

Chapter 5

The Audio Rack

Introduction

By means of a user-friendly interface (as easy as operating your home stereo system), 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.

Audio Ruck POPRIPE 0 **MIDI Player**

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

MP3/Wave Player

Records and plays digital audio (mp3/wave) files. Allows you to create wave file playlists, and playback the wave files.

CD Player

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

Mixer

Controls the volume level of your audio inputs and outputs

On board Audio

Mixer

Volume Control

Control			0
Advanced	9/00/ME 9 cb	ME WAVE MIDE MALKIN WORDN MEREN	

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. A button 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 outputRe 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

I Collars		0
Fielder	<u> </u>	- 64
Control		
Advanced	CO CO VINCE VIEWE O'MIDT VALVIN PLDEDI POPDIFIN	

For each input signal, a control slider regulates the loudness whereas a horizontal slider the balance between the two channels. The se lect button can temporarily select input signal without changing slider positions. A button with a lit LED 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.