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Quick Installation Item Checklist

- [] The Motherboard
- [] Operation manual
- [] ATA 66/100 IDE cable
- [] Floppy cable
- [] Power Installer CD
- [] 6-Channel Audio Port 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 and unplugged whenever working inside the computer.

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 anti-static bag until it is ready to be installed in your system.

3.Keep all magnets away from both your hard and floppy disk drives, especially magnetic screwdrivers.

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





Jumpers & Connectors

- JP1 Clear CMOS Jumper
- JP10 VIO Selection Jumper
- JP20 Audio Jumper
- JP25 Keyboard Power On Jumper
- JP31 Front Side Bus Jumper
- JP32 Onboard RAID Jumper
- J34A EXT USB Connector
- J39 CPU Fan Connector
- J41 System Fan Connector
- J42 Auxiliary Fan Connector
- J43 Front Panel Connector
- J45 Infrared Connector
- J46 Wake-ON-LAN Connector
- J54 CD-IN Connector
- J64 SPDIF or 6-Channel Audio Port Bracket Connector [Bracket Optional]
- J69 Wake-ON-MODEM Connector

Please Note: The XP333 motherboard does not have the onboard RAID feature or its connectors.

Jumpers/Connectors



JP1

JP1 controls the Clear CMOS feature.

JP32

JP32 controls the onboard RAID feature on the XP333-R. If you have the XP333-R and will use the RAID feature, please refer to the additional RAID Administrator User's Manual supplied with the XP333-R for information on setting up and using a RAID array.



JP10

JP10 sets the VIO setting. make sure this is correct for your CPU.



JP25

JP25 configures the Keyboard Power On feature in hardware. This must be set to be Enabled for the Keyboard Power On features in the BIOS CMOS Setup Utility to have effect.

JP31

JP31 sets the Front Side Bus speed. make sure the setting conforms to your CPU's specifications.



JP20

JP20 controls the onboard audio feature. If you want to use an alternate audio expension card, set this to Disabled.

J45

J45 is a connector for an optional IR port module. The lead from the module plugs onto this connector. Refer to the module installation instructions for more information.





J64 is a connector for the supplied 6-Channel Audio port bracket that comes with this motherboard or for the optional Super Audio port bracket that provides additional digital audio connections.



J54 is an audio-in connector for an audio cable from an external device with an audio connection such as a CD-ROM drive.

J34A

J34A is a connector for an optional dual USB 1.1 port module. The connector cable from the module plugs onto the J34A connector.



J69 is a connector for the lead from an internal modem that supports the Wake-On-Modem feature.

J46

J46 is a connector for the lead from an internal Network Interface Card that supports the Wake-On-LAN feature.



J39 is a power connector for the cooling fan from a heatsink/fan CPU cooler. The power cable from the fan plugs onto the connector.

J41 & 42

J41 & J42 are power connectors for cooling fans mounted on the system housing. The power cable from a fan plugs onto the connector.







J37 is a connector for the power connector from a standard ATX power supply.

J43 Front Panel Connector



J43

J43 is a connector for connecting cables from system housing switches amd indicator lights in addition to a housing mounted system speaker.

Features



Motherboard Component Placement

Components

1	CPU	Socket
---	-----	--------

- 2 DIMM sockets
- 3 ATX Power connector
- 4 IDE connectors
- 5 FDC connector
- 6 Onboard RAID IDE Connectors (XP333-R)
- 7 PCI slots
- 8 AGP slot
- 9 Rear I/O Panel



PS/2 USB Parallel & 2 Serial Game/MIDI & Audio Mouse Keyboard

Block Diagram



Specifications

Processor I/F (Socket A)

-Supports Socket A Processors

-Supports 66M/100M/133/166M FSB (Front Side Bus)

-Supports Single Athlon / Duron /Athlon XP /Mogon series

CPU Frequency/Voltage Select

-Supports Vcore Multiplier selection by BIOS(1.050V to 1.825V)

-Supports increase 10% CPU Voltage

-Supports CPU External Frequency selection (up to 225 MHz)

ChipSet (Marking, Packing)

North Bridge ALI 1647 VER C

South Bridge ALI 1535D plus

Memory

-Supports DDR Memory (PC2700/PC2100/PC1600 DDR)

-Supports 6 banks up to 3GB DRAM (512Mb x 8 or x 16 DRAM) for Nonregistered or Unbuffered DDR modules

Graphics

-Supports AGP2X/AGP4X/AGP Pro Slot

General I/O

-PCI 2.2 compliance

-Supports 32-bit/33MHz PCI interface

-Supports LPC interface

-Supports ATA33/ATA66/ATA100 IDE interface

- -Supports Floppy interface
- -Supports 16550A UART interface
- -Supports ECP/EPP interface
- -Supports PS2 interface
- -Supports SIR/CIR interface
- -Supports USB interface

RAID Support

-Supports 2 ATA66/ATA100 channels

-Supports RAID Level 0/1/0+1

-Supports "SPARE" feature

-Supports Win9X/WinNT/Win2K

Sound support

-C-Media CMI8738-6CH Sound Chip on board

- -Supports Game/MIDI interface
 - -Supports Audio interface

-Supports Win9X/WinNT/Win2K

Management

-Supports voltage monitoring (Vcore/Vsb)

-Supports fan control signal (CPU/SYS)

-Supports temperature sensor (CPU/SYS)

-Supports CPU Over Temperature Shutdówn

-Supports Power on by Ext. Modem/Int. Modem/RTC/ PME(Wake on Ring)

-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 (jumper provides H/W protection)

-Supports Manually Assigning PCI IRQs

Power Requirements

-Onboard DC/DC switching voltage regulator supports Vcore up to 45A current-

-Discrete voltage regulator for AGP port

-Supports adjustable Vcore by BIOS

Expansion Slot, Sockets and Connectors

-Two Socket370 socket

-Three DDR sockets

-One AGP Pro slots

-Five 32bit/33MHz Bus Master PCI slots

-Two IDE connectors

-Two IDE RAID connectors

-One FDC connector

-Two External Serial Port connectors

-One External Parallel Port connectors

-One External PS/2 Mouse & Keyboard connector

-One External Game/MIDI/AUDIO connector

-One Internal CD-in connector

-One External USBx2 connectors

-Two Internal USBx2 connectors

-One Internal IR connector

-One Internal WOL connector

-One System temperature sensor

-One CPU fan connector with PWM control

-Tow fan sencer connector

-One Chassis Intrusion header

-One Internal WOM connector

-One Internal SMBus connector

-One ATX 20-pin power connector

Others

-ATX Form Factor 305mm x 226mm -4 Layer design

Hardware Setup

Install the Processor

You must install a combination heatsink and fan CPU cooler on top of the CPU after you install it in the CPU socket. The CPU cooler will clip onto the CPU socket in some fashion. Your CPU may have come with a cooler or you may need to buy one separately. If you have to buy one, make sure it is designed for use with your CPU. In either case, follow the instructions that come with the CPU cooler to install it. make sure there is sufficient air flow around the cooler assembly for adequate ventilation.

Step1:

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



Step3:

Press the socket lever down to close and latch the socket.



Step2:

Locate Pin 1 on the socket and match it with the Pin 1 corner of the CPU. Insert the CPU in the socket.



Install Memory Modules

This motherboard has three DIMM memory sockets and supports up to 3GB of system memory. To install module do as follows.

Step 1:

Press the DIMM socket retaining latches outward to allow space to insert the module.

Step 2:

Orient the module to the socket. The socket receptacle is divided into two sections of different length so that the module will only insert in the correct orientation.



Step 3:

Hold the module at 90° to the board and insert it into the DIMM socket.



Step 4:

Press the module into the socket until the reataining latches rotate upward and snap into the notches on the module.



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

JP10 function





IWILL 6-Channel Audio



IWILL SuperAudio (Optional)



ATX Power Supply Connector Power on procedures

Step Description

- 1 After all connections are made, replace the system case cover.
- 2 Be sure that all switches are off.
- 3 Connect the power cord into the power supply located on the back of your system case.
- 4 Connect the power cord to a power outlet that is equipped with a surge protector.
- 5 Most system power supplies support either 110V or 220V by setting a switch on the supply. Switch your power supply to the correct supply voltage if necessary.
- 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.

Rear I/O Panel

Function	Color	Description
PS/2 Mouse	Green	This connector can be used to support a PS/2 mouse
PS/2 keyboard	Purple	This connector can be used to support a PS/2 keyboard
USB	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	Gold	You may connect joysticks or game pads to this connector for playing games, or connect MIDI devices for playing / editing professional audio
Audio Ports		playing / balang protocolonal addior
Line Out	Lime	For connecting headphones or powered speakers.
Line In	Light Blue	Audio sources can be recorded by your computer or played through the Line Out connector.
Mic	Pink	A microphone can be connected for inputting audio.

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 by pressing the "RESET" button on the system case, or pressing the <Ctrl>, <Alt> and keys simultaneously.



Generally, the BIOS default settings have been carefully chosen to maximize performance and reliability. It is inadvisable to change any setting without full understanding of the effect. *Do not* change any setting unless you fully understand what it will do. We also strongly recommend that you *do not* update the BIOS if the system works correctly.

Using BIOS setup program

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
Select the previous value for a field
Select the next value for a field
General Help
Item Help
Previous Values
Fail-Safe Defaults
Optimized Defaults
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, run the BIOS setup program and choose Load Optimized Defaults to select the original manufacturer default settings. Save and Exit to record the settings to CMOS memory.

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.



Stardard CMOS features

Date (nm:dd:yy)	Wed, Mar 20 2002	Iten Help
IDE Primary Master IDE Primary Master IDE Primary Stave IDE Secondary Master IDE Secondary Slave	[None]	Menu Level > Change the day, month, year and century
Drive A Drive B	[1.44M, 3.5 in.] [None]	
Video Halt On	[EGA/UGA] [All Errors]	
Base Memory Extended Memory Total Memory	640K 65472X 1024K	

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

This allows you to manually Auto-Detect IDE hard disk drive Capacity, and its parameters.

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

This field specifies type of drive that corresponds to the drive in

stalled in your system. Leave it on the Auto setting. If you select the User setting, you have to specify the correct number of Cylinders, Heads, and Sectors manually.

Access MODE

This field specifies the IDE translation mode. Leave it on the Auto setting.

Capacity automatically displays the disk drive size

Drive A / Drive B

This field specifies the traditional type of floppy drives.

None (*Drive B default)	No 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 the "Drive A / Drive B" field will be invalid.

Disabled (Default Value)	No 3 Mode drive is connected
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

Video

The default setting is EGA/VGA. DOn't chnage it.

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

Advanced BIOS Features

CMOS Setup Utility - Copyright (C) 1984-2001 Award Software Advanced BIOS Features		
Virus Warning	[Disabled]	A Iten Help
External Cache	[Enabled]	Menu Level ►
First Boot Device Second Boot Device	[Floppy] [HDD-0]	Allows you to choose the UIRUS warning
Third Boot Device Boot Other Device	[SCSI] [Enabled]	feature for IDE Hard Disk boot sector
Swap Floppy Drive Boot Up Floppy Seek	[Disabled] [Enabled]	protection. If this function is enabled
Boot Up NunLock Status Boot Up System Speed	LOn J [High]	and someone attempt to write data into this
Typenatic Rate Setting	[Disabled]	a warning nessage on
x Typenatic Delay (Msec)	250 [Setup]	screen and alarm heep
OS Select For DRAM > 64MB Report No FDD For VIN 95	[Non-082] [No]	Ţ
<pre>fi++:Move Enter:Select +/-/ F5: Previous Values F6:</pre>	/PU/PD:Ualue F10:Save : Fail-Safe Defaults	e ESC:Exit F1:General Help F7: Optimized Defaults

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 leave this disabled.

[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]

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.

```
[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. Don't change th default.

[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. The next two items set the rate and delay.

[Enable, Disabled(Default Value)]

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 to 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]

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 knowing what the effect will be.

CMOS Setup Utility - Copyright (C) 1984-2001 Award Software Advanced Chipset Features		
DRAM CAS Select [Auto (By SPD)]	Iten Help	
Dram Ferformance [Ruto (By SPD)] Dram Read Enhance [Enable] Dram (HDUF Fluzh [Enable] RAM BIU Output Bypass Mode [Enable] RAM BIU Input Bypass Mode [CAS=2.5] AT Bus Clock [CLK2.4] System BIOS Cacheable [Enabled] AGP Aperture Size [64MB] AGP Delay Offset [+4] AGP Driving Strength [Auto] Memory Hole At 15M-16M [Disabled] I/O Recovery Period [1 us] Passive Release [Disabled]	Menu Level ►	
14**:Move Enter:Select */-/PU/PD:Ualue F10:Save F5: Previous Ualues F6: Fail-Safe Defaults F	SC:Exit F1:General Help 7: Optimized Defaults	

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.

DRAM CAS Select

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

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.

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

System BIOS Cacheable

When enabled, accesses to the system BIOS are cached. [Enabled(**Default Value**), Disabled]

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]

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 are allowed during passive release. Otherwise, the arbiter only accepts another PCI master access to local DRAM.

[Enabled, Disabled (Default Value)]

Integrated Peripherals

CMOS Setup Utility	- Copyright (C) 1984-2001 Integrated Peripherals	Award Software
On-Chip Prinary IDE	[Enabled]	Iten Help
Slave PIO	[Auto]	Menu Level ►
Master Ultra DMA Slave Ultra DMA	[Auto] [Auto]	
On-Chip Secondary IDE	[Enabled]	
Slave PIO	[Auto]	
Slave Ultra DMA	[Auto]	
On-Chip USB Controller	[Disabled] Disabled	
Init Display First	[AGP]	
POWER ON Function	LEMAN TOU J	
Hot Key Power ON	[Ctr1-F1]	
Onboard FDC Controller Onboard Serial Port 1	[Enabled] [3F8/IRQ4]	
†↓++:Move Enter:Select F5: Previous Values	+/-/PU/PD:Ualue F10:Save F6: Fail-Safe Defaults	ESC:Exit F1:General Help F7: Optimized Defaults

On-Chip Primary/Secondary IDE Channel

These fields enables or disables the onboard IDE controller channels. [Enable(**Default Value**), Disabled]

PIO & Ultra DMA Settings

These fields configure the transfer mode for each IDE device. Use the default Auto setting to automatically detect the best choice.

On-Chip USB Controller

Select Enabled if your system contains USB peripherals.

[Enable, Disabled(Default Value)]

USB Keyboard Support

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

The following two fields configure system Power-On modes.

KB Power-On Password

Sets a password to control the keyboard power-on feature.

Hot Key Power On

Assigns a hot key combination that will execute a keyboard power on command to turn on the system from the keyboard.

KB Power-On Password

If you wish to use this function, highlight the field then press <Enter>. The computer will display the message "Enter Password". Type in a password is displayed and re-type it at the prompt. The KB Power-On function will be in effect after you Save and Exit Setup.

To disable a password, highlight the field again and 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 through Ctrl-F12]

Onboard FDC Controller

This field enables or disables the onboard floppy controller.

[Enabled(Default Value), Disabled]

Onboard Serial Ports

These fields configure the onboard serial ports. There are several port addresses and IRQ channels to select from. The defaults are the standard assignments for these ports.

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]

Power Management Setup



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.

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

Set 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 indicates which IRQ a MODEM is using.

[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.

HDD Power Down

This field specifies the amount of time after which the system powers down the Hard Disk Drives. It is available only when the Power Management field is set to User Define.

[Options: 1-15Min, Disabled(Default Value)]

Suspend Mode

This field specifies the time after which the system enters powersaving mode. It is available only when the Power Management field is set to User Define.

[Options: 1Min to 1Hour, Disabled (Default Value)]

Soft-Off by PWR-BTTN

This field specifies the function of system housing power button.

Instant-Off (Default Value):

When power button is pressed, the system turns off immediately, *Delay4 Sec:*

When the power button is pressed for four seconds, the system turns off.

WakeUp\PowerOn by PCI card

When enabled, the system can "power-on" or "wake-up" via activity from a PCI rev.2.2 card when a "PME" event occurs.

[Enabled, Disabled (Default Value)]

WakeUp\PowerOn by Ring

When enabled , the system can "power-on" or "wake-up" via activity from an external modem connected to the PC.

[Enabled, Disabled (Default Value)]

Resume by Alarm

When enabled, you can set the date and time to automatically "wake-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.

PnP/ PCI Configurations

CMOS Setup Utility - Copyright (C) 1984-2001 Award Software PnP/PCI Configurations		
Reset Configuration Data [Disabled]	Iten Help	
Resources Controlled By [Auto(ESCD)] × IRQ Resources Press Enter PCI/UGA Palette Snoop PCI IRQ Actived By [Disabled] ILevel]	Menu Level Default is 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 OS cannot boot	
<pre>f4++:Move Enter:Select +/-/PU/PD:Ualue F10:Save F5: Previous Values F6: Fail-Safe Defaults</pre>	ESC:Exit F1:General Help F7: Optimized 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 cardand the system reconfiguration has caused such a serious conflict that the operating system can not boot.

[Enabled, Disabled (Default Value)]

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 Value**): 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 manufacturer.

[Level (Default Value), Edge]

PC Health Status

This page displays the results of the hardware monitor checks of the system's environmental status. On the screen displays CPU/System temperature, FAN speed, and voltages.

CPU Warning Temperature		Iten Hel
Current CPUI Temperature Current CPUIPANI Speed Current CPUIPANI Speed Ucore 43.30 * 5 U *12 U Shutdown Tenperature	[78°C/158°F]	Menu Level ►

Iwill Smart Setting

Spread Spectrum

This is a required default, don't change it.

[Enabled, Disabled (Default Value)]

MicroStepping

Microstepping another step forward by Iwill to provide users a trouble-free CPU frequency set up procedure. It contains two main functions, Auto Detecting CPU speed and Micro Adjustable CPU FSB speed.

Auto Detecting CPU speed:

IWILL MicroStepping will auto-detect the CPU's factory multiplier and CPU FSB and use the factory default. This function provides a "trouble-free" CPU set up process for the general user.

IWILL Smart Setting

CMOS Setup Utility - Copyright (C) 1984-2001 IWILL Smart Setting	Award Software
THE CPU IS	Iten Help
CPU Micro Code Updated to	Menu Level ►
Spread Spectrum [Disabled]	
CPU Clock Micro Stepping ==== CPU Clock Ratio [100] CPU Clock Ratio [Auto] CPU Veore Setting [Auto] PCI Clock Divider [Auto] BIOS-ROM Flash Protect [Non-Flash]	
14++:Move Enter:Select +/-/PU/PD:Value F10:Save F5: Previous Values F6: Fail-Safe Defaults	ESC:Exit F1:General Help F7: Optimized Defaults

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.

CPU Vcore Setting

This item displays the current CPU voltage setting.

[Auto (Default Value), Options: 1.125V up to 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), Options: CPU/3, CPU/4]

BIOS-ROM Flash Protect

When set to "Non flash", the BIOS ROM chip is protected to prevent accidental overwrting or corruption of the working BIOS. Please don't select "Flashable" until you have to upgrade the BIOS.

[Non-flash (Default Value), Option: Flashable]

Load Fail Safe Defaults

When you press <Enter> with this item highlighted, you get a confirmation dialog box. Pressing 'Y' loads the BIOS default values for the most stable, minimal-performance system operation.



Load Optimized Defaults

When you press <Enter> with this item highlighted, you get a confirmation dialog box. Pressing 'Y' loads the BIOS default values for optimized system performance.



Set Password Setting



These items are used for setting passwords. When a password is set and the Security Option field in Advanced BIOS Features is set to Setup, you will be required to enter the password every time you try to enter the CMOS Setup Utility. This prevents an unauthorized person from changing any part of your system configuration. Additionally, if the Security Option field is set to Boot, the BIOS will request a password every time the system boots. This prevents unauthorized use of your computer.

If you wish to use either function, highlight the item and 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 Supervisor Password function will be in effect after you Save and Exit Setup.

To disable a password, highlight the item and 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 the password feature is removed.

Save & Exit Setup

Saves current CMOS values and exits the CMOS Setup Utility.



Exit Without Saving

Abandons all CMOS value changes and exits the CMOS Setup Utility.



On Board Audio

Audio Features

Special Feature

- 1. Full-duplex playback and recording. Built-in 16-bit CODEC.
- 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 bypass modes.

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

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-ROM Drive.

- 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.
- 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.

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."
- 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"
- 13. Key in the drive path where the Windows NT application installation program is, for example:

D:\NT40\APP\SETUP.EXE

14. Click "OK" to start the installation procedure, and follow the on-screen instructions to complete the installation. When all of the application software has been installed, shut down the Windows NT system, then reboot your system.

The Audio Rack

Introduction

By means of a user-friendly interface that is as easy as operating your home stereo system, the Audio Rack software provides you with control over your PC's audio functions, including the advantage of 6-speaker mode enable/ disable, and digital sound (SPDIF version ONLY) input/output. control.



About Audio Rack

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

Audio Rack	[[]] []] []] []] []] []] []] []] []] []	- 0
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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

Mixer

Volume Control



For each output signal, the vertical control slider regulates the volume and the horizontal slider the balance between two speakers. The mute button temporarily stops audio output without changing slider positions. When a button LED is lit, that audio output is available. Several output signals can usually be enabled at once.

Volume: This is the master control over all outputs. The power of an output 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 the individual sliders.

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



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

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 recording from SPDIF in. SPDIF-in is mutually exclusive with other input signals.

Advanced: Regulates the advanced settings.

Installing Support Software

This section covers installing Operating System software and the support software on the Power Installer support CD-ROM disc. Once you have configured the CMOS Setup Utility, you should install an OS. If you install a supported Microsoft OS, you should also install the driver software on the Power Installer disc.

Installing an Operating System

This motherboard is intended to use the following Operating Systems:

- Microsoft Windows 9X
- Microsoft Windows NT
- Microsoft Windows 2000
- Microsoft Windows XP
- Linux

Prepare the hard disk drive and install an OS according to the instructions that come with the OS you will use.

Installing the Support Software

The Power Installer CD-ROM disc comes with required hardware drivers for Microsoft Windows and some additional utility software. If you have installed a supported Microsoft OS, you must install the required ALi drivers. If you have installed Linux, you can create Linux support disks.

Installing Windows Drivers

This section assumes you have installed one of the supported Microsoft Operating Systems on the system hard disk drive.

To install Windows drivers, insert the Power Installer support CD-ROM disc in the system's CD-ROM (or other optical drive) and wait for the Power Installer interface to automatically load. If it doesn't start, run the Power Installer interface directly from the disc by running Setup.

The Power Installer main screen will appear. Click on this motherboard's model number to open the section for this board.

🕼 Iwill Power Installer CD Double Performance Double Value Please select the model name to support your system ! Socket A : KV200 KV200-R KA266 KA266-R KK266 KK266-R **KD266** KA266plus KK266plus KK266plus-R KD266plus XP333 XP333-V VX133L DVD266 BD133 Socket 370 : VX133 DVD266-R BD133u DVD266u-N DVD266u-RN VX133u DR133 DR133-1U DCA200-N Slot 2 : P4D P4D-N mP4S Socket 478 : F4S mP4S-1394 P4R P4R-N P4DA P4DA-N Exit



The following screen will appear when you click on Manual Installation. Click on "Driver Installation" and the Driver Installation screen will appear.



Install the first item for the Ali chipset by clicking on it and following the install program instructions. Make sure you install this before you install any other software on the disc. If you will use an ATi Rage 128 Pro display card, also install the "Patch Driver".

Next install the "Onboard Audio Driver" in the same way.

Finally, if you have the XP333-R with the onboard RAID feature, to configure a RAID array, please review and follow the Raid Administrator User's Manual by clicking on the "Onboard RAID Driver Intsall Guide" item. The Adobe Acrobat reader program will run when you try to view the Raid Administrator User's Manual.



The Make Driver Utility

The "Make Driver" utility makes driver floppy disks. You can floppy disk copies of the ALi chipset support software and the Onboard HighPoint 370A/372 RAID Driver and Utility.

IWILL Driver Diskette Maker		×
Iwill Make things happen!		
Please select the installation diskette yo	ou want to create .	
VIA Service Pack 4.32v(a)		*
ALI Integrated Driver 1.04		
DCA200-N Onboard Lan Driver		
DVD266u-RN / DVD266u-N Onboard Lan D Onboard High Point 370A/372 RAID Driver a	river and Utility	
Onboard RealTek 8139C / 8100b Lan Driver	and only	
DR133 / DR133-10 Onboard Lan Driver		<u> </u>
98/me/2000.		
Insert the 3.5" diskette . All data on the diskette will be destroyed .	@ Drive A:	60
	C Drive B:	70
		Ext
http://www.iwill.net		

Making & Installing Linux Drivers

You can boot the system from the Power Installer disc. The system will boot from the Linux kernel on the disc and you can use the disk creator that loads to create Linux support disks. You can then use these to install any necessary modules according to your Linux distribution's instructions for module installation.

Installing the Utility Software

To install the utility software bundled on the Power Installer disc, click on "Software Utility" in the manual installation screen to open the Software Utility window.

To install the any of the software packages, click on the item you want to install and follow the install program's instructions. The Onboard RAID Utility is a Windows utility for RAID array management. The Hardware Monitor Utility is for the ALi chipset.

