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## Chapter 1

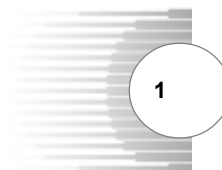


### Introduction

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P8/333 series of mainboards utilize Intel® 845GE chipset consisting of two components: the Intel 845GE Graphics Memory Controller Hub(GMCH) and the I/O Controller Hub4(ICH4), providing a fully compatible, high performance and cost-effective ATX platform. The new integrated technologies, together with AC'97 audio(2/6-channel), 6 USB , and ATA100/66/33, give customers an advanced, multimedia solution at reasonable price. It provides 400/533MHz host bus speed to support Intel® Pentium 4 socket 478 processors and the DDR200/266/333 memory. It also provides advanced features such as Wake up by USB devices, Wake-on-LAN, Wake-on-Modem, ACPI, CPU overheat triple protection, and Keyboard Password Power-on functions. Suspending to RAM, the optimal implementation of the Advanced Configuration and Power Interface (ACPI) specification, makes the PC's power consumption drop to the lowest possible level and enable quick wakeup.

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## **Key Features**

### **Form factor**

- ATX form factor of 305mm x 232mm

### **Microprocessor**

- Supports Intel® Pentium 4 (Hyper-Threading) socket 478 processors
- Supports Intel® Pentium 4 (Willamette) socket 478 processors at 1.8/1.9/2.0GHz
- Supports Intel® Pentium 4 (Northwood) socket 478 processors at 1.8/2.0/2.2/2.26/2.4/2.53/2.66/2.8/3.06GHz
- Supports 400/533MHz host bus speed

### **System memory**

- Supports DDR200/266/333 SDRAM
- Supports 64/128/256/512Mb technology up to 2GB
- Provides two 184-pin DDR SDRAM interfaces

### **Onboard IDE**

- Supports Independent timing of up to 4 drives
- Supports Ultra ATA 33/66/100, PIO mode
- Two fast IDE interfaces supporting four IDE devices including IDE hard disks and CD ROM drives

### **Onboard LAN(Available on -L, -AL, -6AL)(optional)**

- 10/100 Mbit/sec Ethernet support (Intel82562 chip)
- 1000 Mbit/sec Ethernet support (Intel82540 chip)
- 10/100/1000M LAN interface built-in on board

### **USB 2.0/1.0**

- USB 2.0 compliant, operates at 480Mbps, about 40X times faster than USB 1.1 which currently works at a snails pace of just 12Mbps
- Provides 6 USB 2.0/1.0 ports

### **Onboard I/O**

- One floppy port supporting up to two 3.5" or 5.25" floppy drives with 360K/720K/1.2M/1.44M/2.88M format
- Two high speed 16550 compatible COMs with 16 byte send/receive FIFO (COM1 on back panel, COM2 on header with optional cable)
- One parallel port supports SPP/EPP/ECP mode
- Supports PS/2 mouse and PS/2 keyboard
- Provides one IrDA connector
- All I/O ports can be enabled/disabled in the BIOS setup





### Onboard Audio(available on -A/-AL mainboard)

- AC'97 2.2 Specification Compliant
- Provides onboard Line-in Jack, Microphone-in Jack, Speaker-out Jack and MIDI/Joystick Connector

### 6-channel Onboard Audio(available on -6A/-6AL mainboard)

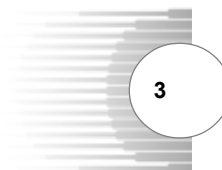
- AC'97 2.2 Specification Compliant
- Provides Front left&right, Rear left&right/Line-in Jack and Center&Woofer/Microphone-in Jack, which can be specified by software

### Graphics Interface

- Supports both 1.5V AGP 4X interface and intel AGP Digital Display(ADD) card
- Integrated 2D/3D graphics accelerator, 256 bit graphics core, provides a VGA port

### Advanced features

- PCI 2.2 Specification Compliant
- Provides Trend ChipAwayVirus On Guard
- Supports Windows 98/2000/ME/XP soft-off
- Supports Wake-on-LAN and Wake-on-Modem
- Supports Keyboard Password Power-on function
- Supports system monitoring(monitors CPU and system temperatures, system voltages, fan speed)
- Provides Diagnosis LEDs to indicate CPU, chipset, memory PCI device, clockgen and video status during system booting up
- Providing QDI innovations: RecoveryEasyII, BIOS-ProtectEasy, LogoEasyII, BootEasy, StepEasyII, SpeedEasyII
- CPU, AGP, DDR Voltage adjusting function with SpeedEasyII: Adjusting CPU, AGP and DDR core voltage in BIOS to improve system stability and overclocking ability.(optional)
- Supports CPU triple overheat protection
  1. If the temperature of the CPU reaches the CPU Warning Temperature set in BIOS, the buzzer will warn.
  2. At the same time, the CPU THER-Throttling will be slowed down to the setpoint in BIOS.
  3. If the temperature of the CPU reach the CPU Shutdown Temperature, the system will be shutdown automatically under the ACPI OS and the data will be saved before.  
(Reference to "PC Health Status" in BIOS)



### BIOS

- Licensed advanced AWARD(Phoenix) BIOS, supports flash ROM, plug and play ready
- Supports IDE CDROM/SCSI/USB boot up.

### Green function

- Supports ACPI (Advanced Configuration and Power Interface) and ODPM (OS Directed Power Management)
- Supports ACPI power status: S0 (full-on), S1 (power on suspend), S3 (suspend to RAM), S4(suspend to Disk, depends on OS) and S5 (soft-off)

### Main Expansion Slots and Connectors

Slot/Port (Quantity)	Description
PCI(6)	PCI slots
IDE(2 )	IDE ports
FLOPPY(1)	Floppy Drive port
DDR(2)	DIMM socket
USB(6)	USB connectors
AGP(1)	AGP slot
LAN(1) (optional)	LAN connector
COM(2)	COM connectors
PARALLEL(1)	Parallel connector
IrDA(1)	IrDA connector

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**Note:** Our technology is subject to upgrade from time to time, the description and Interface for Easy technology in this manual are only for your reference. Please download the latest BIOS or the utility from the website.



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## Chapter 2



### Installation Instructions

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This section covers External Connectors and Jumper Settings. Refer to the mainboard layout chart for locations of all jumpers, external connectors, slots and I/O ports. Furthermore, this section lists all necessary connector pin assignments for your reference. The particular state of the jumpers, connectors and ports are illustrated in the following figures. Before setting the jumpers or inserting these connectors, please pay attention to the direction.

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## External Connectors

### PS/2 Keyboard/Mouse Connector

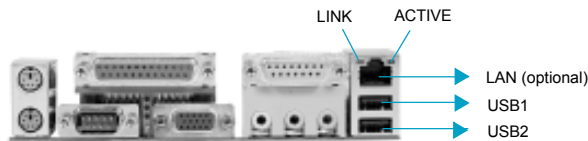
PS/2 keyboard connector is for the usage of PS/2 keyboard. If using a standard AT size keyboard, an adapter should be used to fit this connector. PS/2 mouse connector is for the usage of PS/2 mouse.



### USB1, USB2 and LAN Connectors

(LAN connector is only available on -L/-AL/-6AL mainboard)

Two USB ports are for connecting USB devices. The RJ-45 connector is for onboard LAN.



### Parallel Port, Serial Port Connectors ( COM1 ) and VGA port

The parallel port connector can be connected to a parallel device such as a printer. The serial port COM1 connector can be connected to a serial port device such as a serial port mouse. The VGA port can be connected VGA connector. You can enable/disable them and choose the IRQ or I/O address in "Integrated Peripherals" from AWARD BIOS SETUP.



#### Warning:

Be sure to unplug the AC power supply before adding or removing expansion cards or other system peripherals, otherwise your mainboard and expansion cards might be seriously damaged.

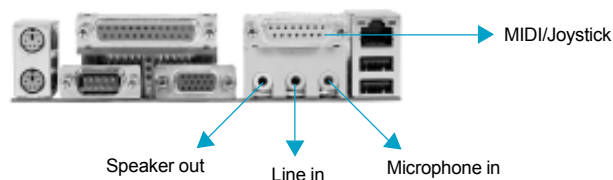




### Line-in jack, Microphone-in jack, Speaker-out jack and MIDI/Joystick Connector

(Available on -A/-AL/ mainboard)

The Line-in jack can be connected to devices such as a cassette or minidisc player to playback or record. The Microphone-in jack can be connected to a microphone for voice input. The Speaker-out jack allows you to connect speakers or headphones for audio output from the internal amplifier. The MIDI/Joystick connector allows you to connect a game joystick or a MIDI device.

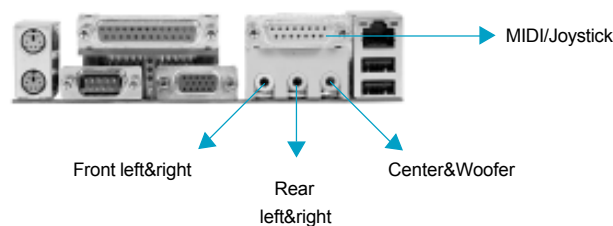


### 6-Channel Audio(Available on -6A,-6AL series mainboard)

This mainboard utilizes ALC650 chip providing 6-channel Audio, which consists of Front Left, Front Right, Rear Left, Rear Right, Center and Woofer for a complete surround sound effect. When 6-Channel audio is available, the front Left&Right jack can be connected to the Front speakers, the Back Left&Right jack can be connected to the rear speakers and the Center&Woofer jack can be connected to the center speaker and woofer.

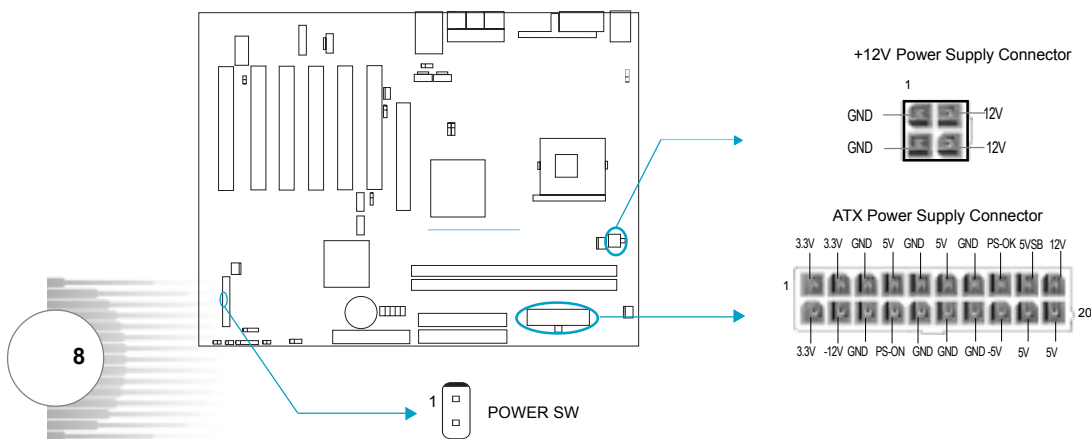
Microphone function is offered by F\_AUDIO Connector on the mainboard now.

If set 2-Channel Audio mode on -6A or -6AL mainboard, you can connect two speakers to the Front Left&Right jack, at the same time use the Rear Left&Right jack as Line in jack, and use the Center&Woofer jack as Microphone in jack.



### ATX 12V Power Supply Connector & Power Switch (POWER SW)

The power switch (POWER SW) should be connected to a momentary switch. When powering up your system, first turn on the mechanical switch of the power supply (if one is provided), then push once the power switch. When powering off the system, you needn't turn off the mechanical switch, just push once the power switch. P8/333 series mainboard only support ATX12V power.



#### Note:

If you change "Soft-off by PWR-BTTN" from default "Instant-off" to "Delay 4 Sec" in the "POWER MANAGEMENT SETUP" section of the BIOS, the power switch should be pressed for more than 4 seconds before the system powers down.

### Hard Disk LED Connector (HD\_LED)

The connector connects to the case's IDE indicator LED indicating the activity status of IDE hard disk. The connector has an orientation. If one way doesn't work, try the other way.

### Reset Switch (RESET)

The connector connects to the case's reset switch. Press the switch once, the system resets.



**Speaker Connector (SPEAKER)**

The connector can be connected to the speaker on the case.

**Power LED Connector (PWR\_LED)**

When the system is in S0 status, the LED is on. When the system is in S1 status, the LED is blink; When the system is in S3, S4, S5 status, the LED is off. The connector has an orientation.

**GREEN LED Connector (GREEN\_LED)**

When the system is in S0, S1, S4, S5 status, the LED is off, When the system is in S3 status, the LED is on.

**ACPI LED Connector (ACPI\_LED)**

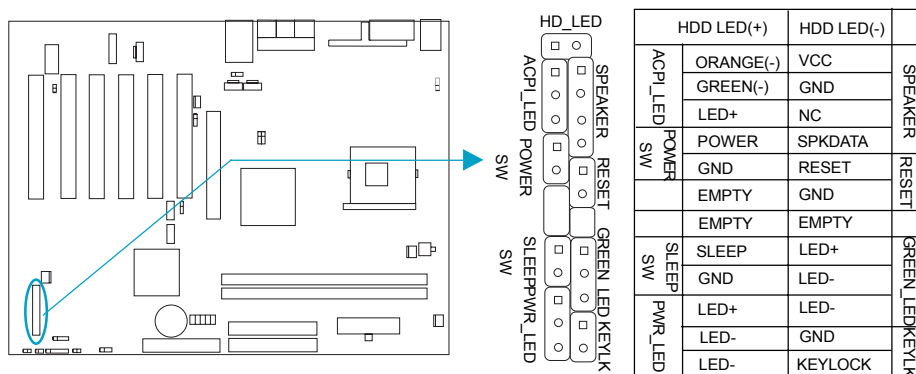
The ACPI LED is a dual-color light with three pins. Pin1 and Pin2 drive different color lights. If Pin1 drives the orange light, then, Pin2 drives the green light, the following status will come out. When the system is in S0 status, the LED is green on. When the system is in S1 status, the LED is green blink. When the system is in S3 status, the LED is orange on. When the system is in S4, S5 status, the LED is off.

**Hardware Green Connector (SLEEP\_SW)**

Push once the switch connected to this header, the system enters suspend mode.

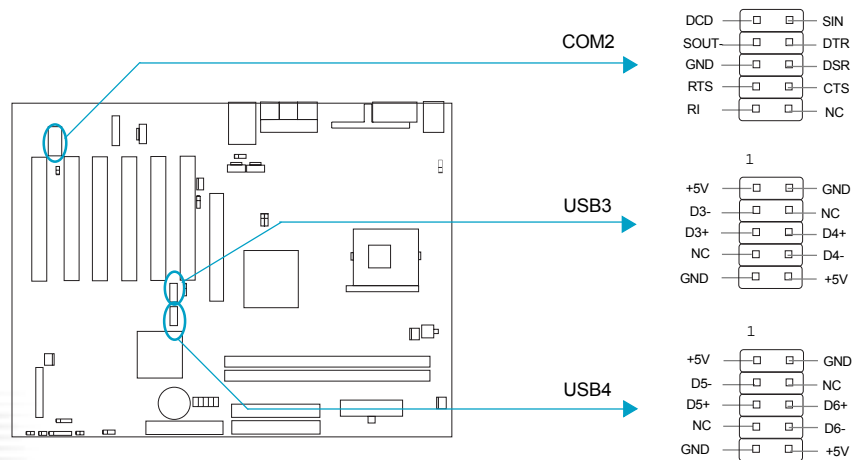
**Key Lock Connector (KEYLK)**

The connector can be connected to the keyboard lock switch on the case for locking the keyboard.



### USB3 ;USB4;Serial Port Connector(COM2)

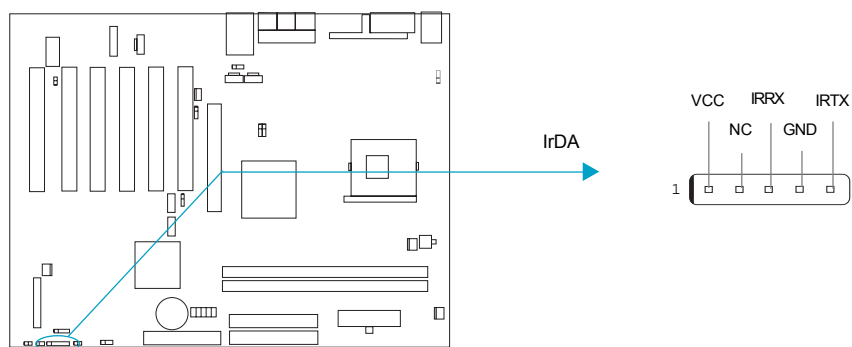
Besides USB1,2 on the back panel, P8/333 series of mainboards also have two 8-pin headers on board which may connect to front panel USB cable( optional ) to provide additional four USB ports. The serial port COM2 is not available on the back panel. Therefore, we provide a 9-pin header.



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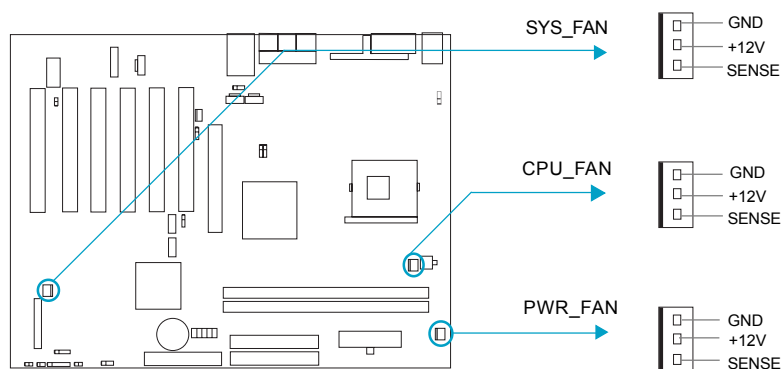
### Infrared Header (IrDA)

This connector supports wireless transmitting and receiving device. Before using this function, configure the settings for IR Address, IR Mode and IR IRQ from the "INTEGRATED PERIPHERALS" section of the CMOS SETUP.



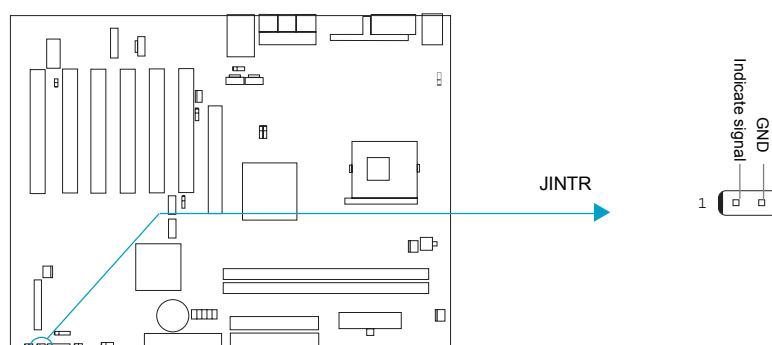
### Fan Connectors (PWR\_FAN, CPU\_FAN, SYS\_FAN(optional))

The fan speed of these three fans can be detected and viewed in “PC Health” section of the CMOS SETUP.



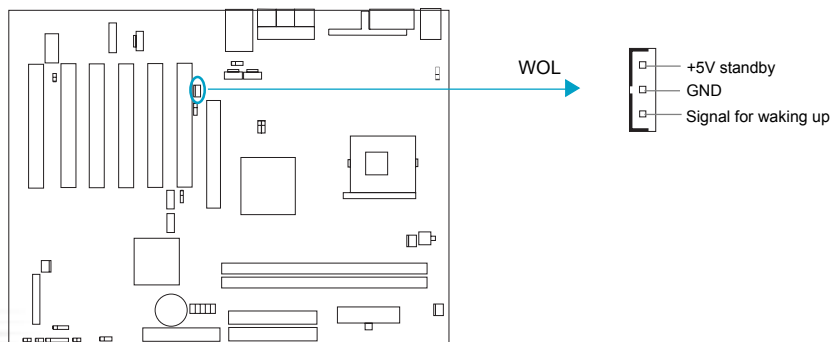
### Intruder Detect Switch(JINTR)(Reserved)

The connector connects to the chassis security switch on the case. The system can detect the chassis intrusion through the status of this connector. If the connector has been closed once, the system will send a message over the network to alert the network manager through the on board LAN controller within ICH4.



### Wake-Up On LAN (WOL)

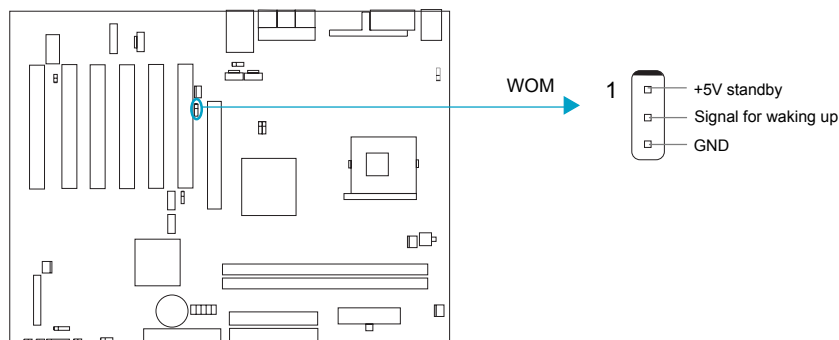
Through the Wake-Up On LAN function, a wake event occurring from the network can wake up the system. If this function is to be used, please be sure an ATX12V power supply and a LAN adapter which supports this function are used. Then connect this header to the relevant connector on the LAN adapter, set "Power on by Ring/LAN" as Enabled in the "POWER MANAGEMENT SETUP" section of the CMOS SETUP. Save and exit, then boot the operating system once to make sure this function takes effect.



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### Wake-Up On Internal Modem (WOM)

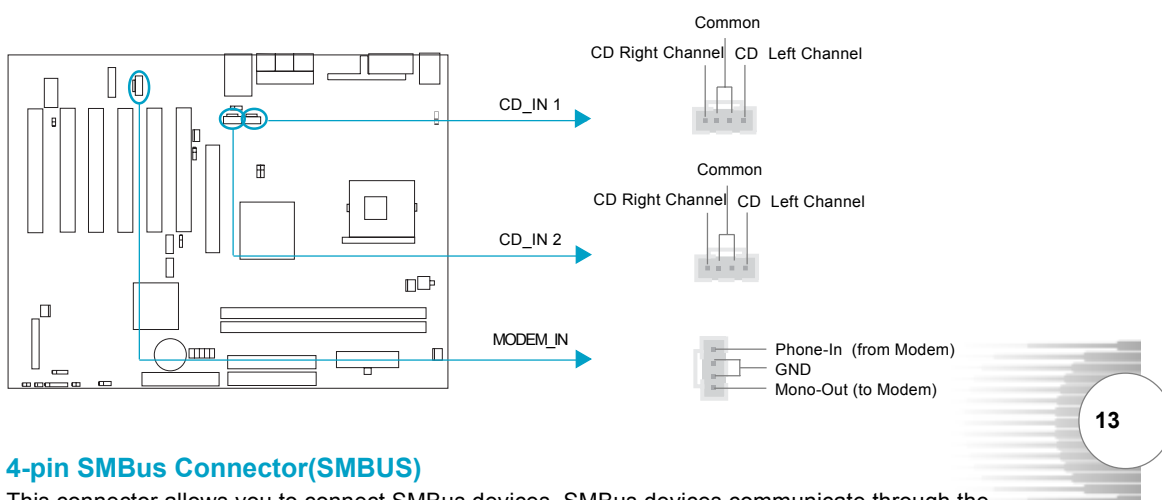
Through this function, the system which is in the suspend or soft-off status can be waked up by a ring signal received from the internal modem. When this function is used, be sure an internal modem card which supports this function is used. Then connect this header to the relevant connector on the modem card, set "Power on by Ring/LAN" as Enabled in the "Power Management Setup" section of the CMOS SETUP. Save and exit, then boot the operating system once to make sure this function takes effect.



### Audio Connectors (CD\_IN 1, CD\_IN 2(optional),MODEM\_IN)

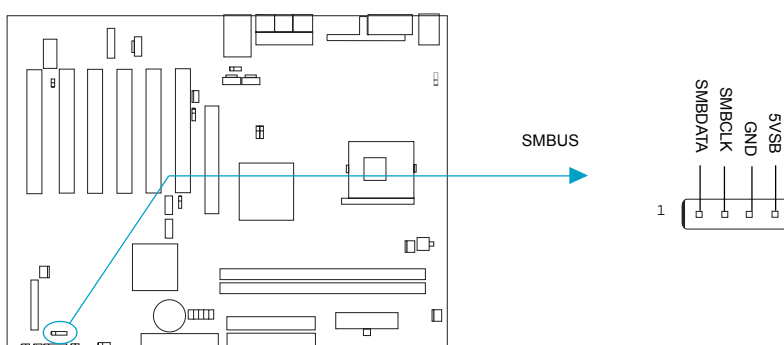
(Available on -A/-6A/-AL/-6AL mainboard)

CD\_IN 1, and CD\_IN 2 are Sony standard CD audio connectors, they both can be connected to a CD-ROM drive through a CD audio cable. The MODEM connector allows the onboard audio to interface with a voice modem card with a similar connector. It allows connecting the mono\_in (such as a phone) or mono\_out (such as a speaker) between the onboard audio and the voice modem card.



### 4-pin SMBus Connector(SMBUS)

This connector allows you to connect SMBus devices. SMBus devices communicate through the SMBus with a SMBus host and/or other SMBus devices. The SMBus or System Management Bus is a specific implementation of I<sup>2</sup>C bus, which is a multi-master bus, that is, multiple devices can be connected to the same bus and each one can act as a master by initiating data transfer.



### Diagnosis LED(optional)

During the POST , the LED1~LED5 representing POST steps will light up in turn.  
please refer to the following table to learn the POST status:

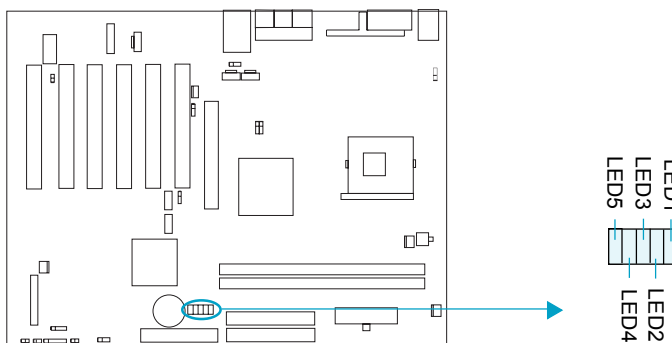
LED1	LED2	LED3	LED4	LED5	status
blink	off	off	off	off	CPU damaged , BIOS chip absent or damaged
on	off	off	off	off	system detect CPU and initialize chipset
off	on	off	off	off	system detect memory
off	off	on	off	off	system initialize PCI
off	off	off	on	off	system initialize clockgen
off	off	off	off	on	system detect Video and invokeVideoBIOS

### Hyper-Threading Detector(optional)

During the POST,If use the CPU of Hyper-Threading and Hyper-Threading is enable in the BIOS,  
the LEDs will light up in turn, then blink together.

LED1	LED2	LED3	LED4	LED5	status
blink	off	off	off	off	CPU damaged , BIOS chip absent or damaged
on	off	off	off	off	system detect CPU and initialize chipset
off	on	off	off	off	system detect memory
off	off	on	off	off	system initialize PCI
off	off	off	on	off	system initialize clockgen
off	off	off	off	on	system detect Video and invokeVideoBIOS
on	on	on	on	on	Hyper-Threading OK

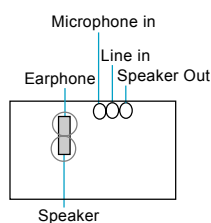
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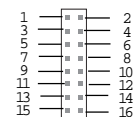
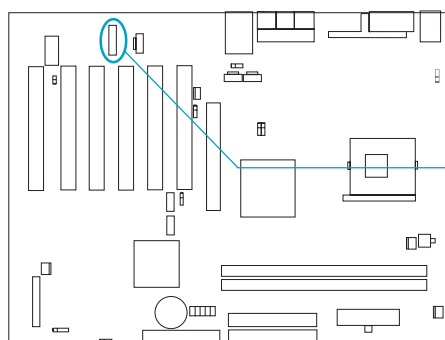


### Audio Interface(Optional)

The audio interface provides three kinds of audio output choices: the FrontAudio, the RearAudio and the ActiveAudio. Their priority level is as sequence. When the FrontAudio is available, the RearAudio and the ActiveAudio( in-case speakers ) will be cut off. When the RearAudio is available, the ActiveAudio will be cut off. An onboard amplifier is provided for the earphone. When the FrontAudio is absent, Pin11 and Pin12, Pin13 and Pin14 must be short connected.



Pin No.	Symbol	Pin No.	Symbol
1	Active LINE Out(R)	2	Active LINE Out(L)
3	GND (ALO)	4	GND (ALO)
5	GND(+12)	6	GND(+12)
7	+12V(1A)	8	(Cut away )
9	MIC	10	GND ( MIC )
11	Front LINE Out( R )	12	LINE Next( R )
13	Front LINE Out( L )	14	LINE Next( L )
15	GND (FLO)	16	(Cut away )

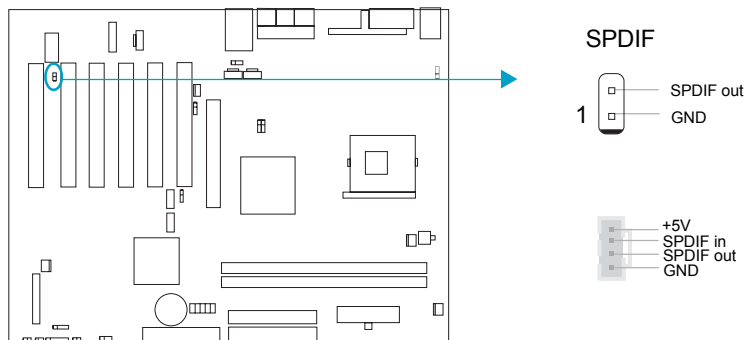


F\_AUDIO  
(Audio Interface)



### SPDIF Connector(optional)

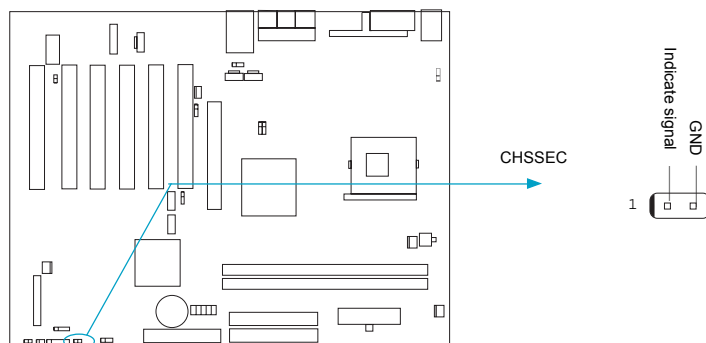
The SPDIF input allow your digital audio input from digital audio devices.(optional) The SPDIF output is capable of providing digital audio data or compressed AC3 data to an external Dolby digital decoder.



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
### Chassis Security Switch (CHSSEC)(optional)







The connector connects to the chassis security switch on the case. The system can detect the chassis intrusion through the status of this connector. If the connector has been closed once, the system will record the status and indicate the chassis has been opened. You can monitor or check this information from some software.





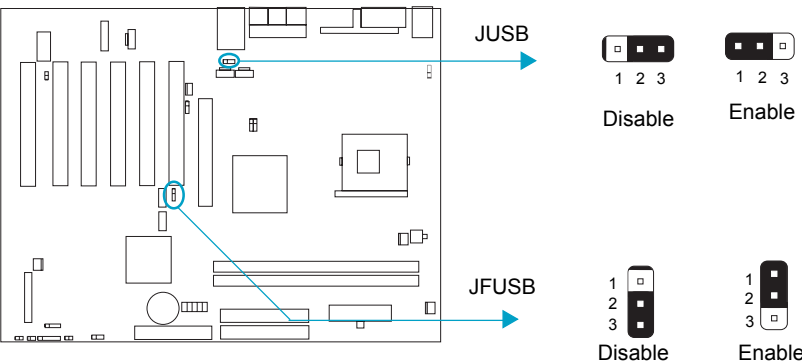
### Jumper Settings

Jumpers are located on the mainboard, the clear CMOS jumper CLR\_CMOS, enable keyboard password power-on function JKB etc. Pin 1 for all jumpers are located on the side with a thick white line (Pin1→ ) , referring to the mainboard's silkscreen. Jumpers with three pins will be shown as  to represent pin1 & pin2 ("1-2") closed and  to represent pin2 & pin3 ("2-3") closed.

Jumper	Symbol	Description	Represent
		<b>1-2</b>	set pin1 and pin2 closed
		<b>2-3</b>	set pin2 and pin3 closed
		close	set the pins closed
		open	set the pins opened

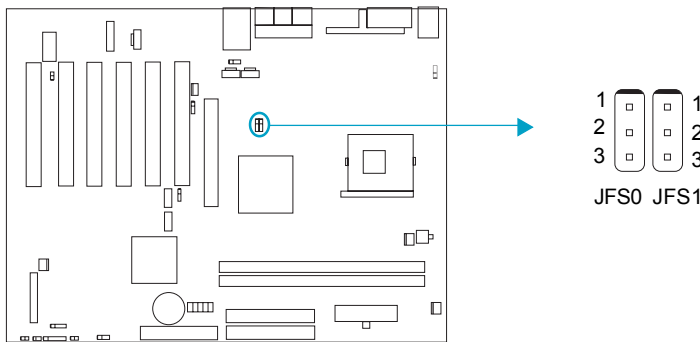
### Enable Front/Back Panel USB Device Wake-up Function (JFUSB/JUSB) (optional)

The mainboard provides the advanced USB device wake-up function. The system can be waked up from its power saving status including ACPI S3 by activating USB device. Before using this function, set JFUSB/JUSB with pin1 & pin2 closed. Otherwise, set JFUSB/JUSB with pin2 & pin3 closed for disabling. Furthermore, the item "Wake-Up From S3 by USB" in Power Management Setup should also be set correspondingly to enable or disable this function.



### Overclocking Jumper Setting (JFS0,JFS1)

Jumpers JFS0 and JFS1 provides users with CPU overclocking feature. The host bus speed can be set as 100x4/133x4/200x4MHz or AUTO. If CPU FSB(front side bus) is set as auto, the system detects the CPU FSB automatically. The table below is for your reference.



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CPU FSB	AUTO	100x4MHz	133x4MHz	200x4MHz
JFS0	1-2	1-2	1-2	2-3
JFS1	1-2	2-3	OPEN	OPEN

"1-2": pin1 & pin2 closed      "2-3": pin2 & pin3 closed

Whether or not your system can be overclocked depends on the capability of your processor and memory. Whether the processor is bus ratio locked or unlocked should also be taken into account. For bus ratio unlocked processor, this overclocking feature can be implemented by setting FSB as 100x4/133x4/200x4MHz, meanwhile adjusting the bus ratio (multiplier) in "QDI Innovation features" in AWARD BIOS CMOS Setup and memory.

You can also adjust the CPU frequency by running StepEasyII. We do not guarantee the stability of the overclocking system.



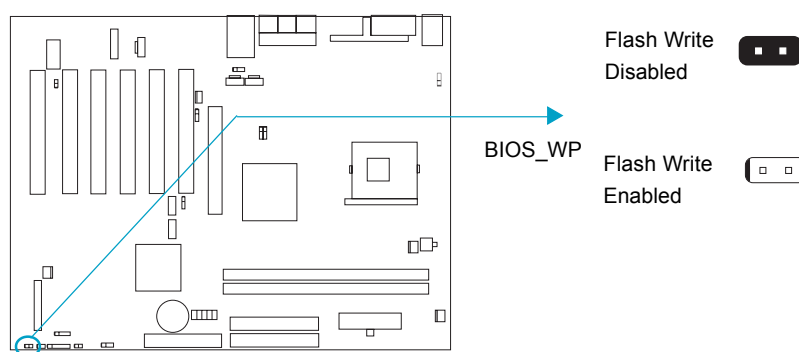
#### Warning:

Be sure your selection is right. CPU over speeding is dangerous! We will not be responsible for any damages caused.



### BIOS-Protection Jumper (BIOS\_WP)

The BIOS of the mainboard is inside the FWH. If the jumper BIOS\_WP is set as closed, the system BIOS is protected from being attacked by serious virus such as CIH virus, you will be unable to flash the BIOS to the mainboard in this status.



Setting the jumper BIOS\_WP as open(default), meanwhile disabling the “Flash Write Protect” item from “QDI Innovation features ” in AWARD BIOS CMOS Setup, allows you to flash the BIOS to the Flash ROM.

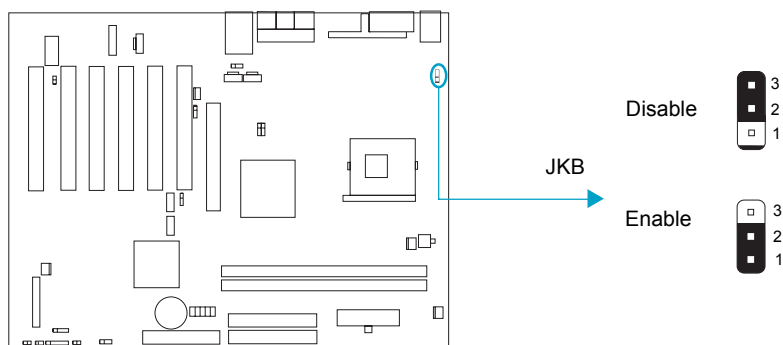
The DMI (Desktop Management Interface) system information such as the CPU type/speed, memory size, and expansion cards will be detected by the onboard BIOS and stored in the flash ROM. Whenever the system hardware configuration is changed, DMI information will be updated automatically. However, setting jumper BIOS\_WP as closed makes flashing BIOS and updating DMI information impossible. Therefore, set BIOS\_WP as open when changing the system hardware configuration, or the error message “Unknown Flash Type” will be displayed on the screen, and DMI information may not be updated.

Under special conditions, the jumper “BIOS\_WP” should be set as OPEN. For further details, refer to the “BootEasy” part of appendix.



### Enable keyboard password power-on function (JKB)

The mainboard provides the advanced keyboard password power-on function. Before using this function, set JKB with pin1 & pin2 closed. Otherwise, set JKB with pin2 & pin3 closed for disabling.



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Furthermore in order to implement this function, set "POWER ON Function" to "Password" and enter the keyboard power-on password in the "INTEGRATED PERIPHERALS" section of the CMOS SETUP. Save and exit, then power off your system. In this case, the power button's power-on function is disabled.



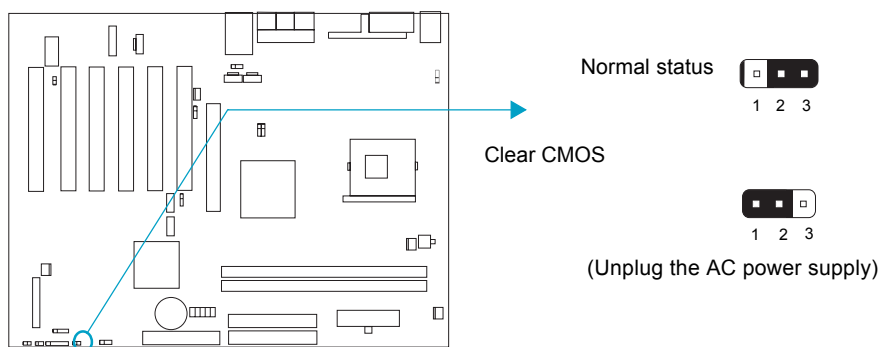
**Note:**

1. If using this function, 5VSB line of the power supply should be capable of delivering enough current for all the devices connected to the keyboard port, if not, you will be unable to power up the system using the keyboard.
2. If you set JKB with pin2 & pin3 closed, set "POWER ON Function" to BUTTON ONLY, don't set it to Password, or you'll be unable to power up your system by the keyboard or the power button.
3. If you encounter the above problems, clear CMOS and set the jumper pin2 and pin3 closed to disable the function, then power on the system by pushing the power button, and set "power on Function" back to "Button Only".



### Clear CMOS (CLR\_CMOS)

If you want to clear CMOS, unplug the AC power supply first, close CLR\_CMOS (pin1 & pin2) once, set CLR\_CMOS back to the normal status with pin2 & pin3 connected, then power on the system.





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## Chapter 3



### BIOS Description

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The mainboard uses AWARD BIOS Setup program that provides a Setup utility for users to modify the basic system configuration. The information is stored in CMOS RAM so it retains the Setup information when the power is turned off.

This chapter provides you with the overview of the BIOS Setup.

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### AWDFLASH.EXE

This is a flash memory write/read utility used for the purpose of upgrading your BIOS when necessary. Before doing so, please note:

- **We strongly recommend you only upgrade BIOS when encounter problems.**
- **Before upgrading your BIOS, review the description below to avoid making mistakes, destroying the BIOS and resulting in a non-working system.**

When you encounter problems, for example, you find your system does not support the latest CPU released after our current mainboard, you may therefore upgrade the BIOS, please don't forget to set BIOS\_WP as open and disable the "Flash Write Protect" item in AWARD BIOS CMOS Setup first .

Follow the steps exactly for a successful upgrade.

1. Create a bootable system floppy diskette by typing Format A:/s from the DOS prompt under DOS6.xx or Windows 9x environment.
2. Copy AWDFLASH.EXE(version>=8.22q) from the directory \Utility located on QDI Driver CD to your new bootable diskette.
3. Download the updated BIOS file from the Website (<http://www.qdigrp.com>). Please be sure to download the suitable BIOS file for your motherboard.
4. Decompress the file download, copy the BIOS file (xx.bin) to the bootable diskette, and note the checksum of this BIOS which is located in readme file.
5. Reboot the system from the bootable diskette created.
6. Then run the AWDFLASH utility at the A:\ prompt as shown below:

A:\AWDFLASH xxxx.bin

Follow the instruction through the process. Don't turn off power or reset the system until the BIOS upgrade has been completed.



If you require more detailed information concerning AWDFLASH Utility, for example, the different usage of parameters, please type `A:\>AWDFLASH /?`



**Note:** Because the BIOS Software will be updated constantly, the following BIOS screens and descriptions are for reference purposes only and may not reflect your BIOS screens exactly.

## AWARD BIOS Description

### Entering Setup

Power on the computer, when the following message briefly appears at the bottom of the screen during the POST (Power On Self Test), press <Del> key to enter the AWARD BIOS CMOS Setup Utility.

**Press <Del> to enter SETUP**

When you have entered, the Main Menu (Figure 1) appears on the screen. Use the arrow keys to select among the items and press the <Enter> key to accept or enter the sub-menu.

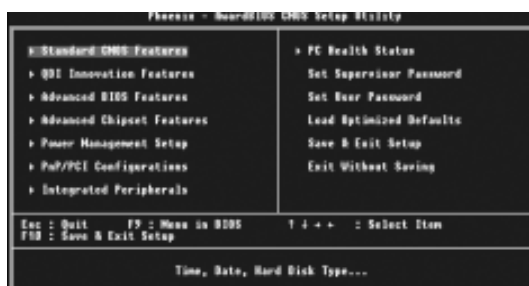


Figure-1 Main Menu

### Load Optimized Defaults

The Optimized Defaults are common and efficient. It is recommended users load the optimized defaults first, then modify the needed configuration settings.

### Standard CMOS Features Setup

The basic CMOS settings included in "Standard CMOS Features" are Date, Time, Hard Disk Drive Types, Floppy Disk Drive Types, and VGA etc. Use the arrow keys to highlight the item, then use the <PgUp> or <PgDn> keys to select the value desired in each item.





Figure-2 Standard CMOS Setup Menu

For the items marked, press enter, a window will pop up as shown below. You can view detailed information or make modifications.

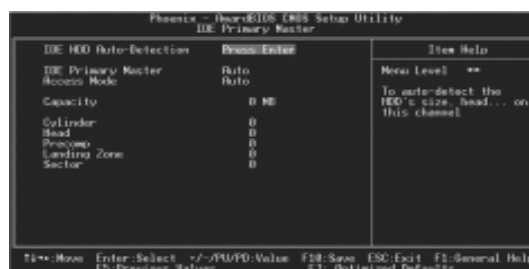


Figure-2-1 IDE Primary Master Setup Menu

## Hard Disk

### Primary Master/Primary Slave/Secondary Master/Secondary Slave

These categories identify the HDD types of 2 IDE channels installed in the computer system. There are three choices provided for the Enhanced IDE BIOS: None, Auto, and Manual. 'None' means no HDD is installed or set; 'Auto' means the system can auto-detect the hard disk when booting up; by choosing 'Manual', the related information should be entered regarding the following items. Enter the information directly from the keyboard and press <Enter>:

CYLS	number of cylinders	HEAD	number of heads
PRECOMP	write pre-compensation	LANDZ	landing zone
SECTOR	number of sectors	MODE	HDD access mode

The Award BIOS supports 3 HDD modes: CHS, LBA and LARGE.

### CHS

Generic access mode in which neither the BIOS nor the IDE controller will make any transformation during accessing. The maximum number of cylinders, heads and sectors for CHS mode are 1024, 16 and 63.

If the user sets his HDD to CHS mode, the maximum accessible HDD size will be 528 megabytes even though its physical size may be greater than that.

### LBA (Logical Block Addressing) mode

A new HDD accessing method to overcome the 528 Megabyte bottleneck. The number of cylinders, heads and sectors shown in setup may not be the number physically contained in the HDD.

During HDD accessing, the IDE controller will transform the logical address described by sector, head and cylinder number into its own physical address inside the HDD.

### LARGE mode

Some IDE HDDs contain more than 1024 cylinder without LBA support (in some cases, users do not want LBA). The Award BIOS provides another alternative to support these kinds of HDD.

BIOS tricks DOS (or other OS) into dividing the number of cylinders is less than 1024 by dividing it by 2. At the same time, the number of heads is multiplied by 2. A reverse transformation process will be made inside INT13h in order to access the right HDD address.

If using Auto detect, the BIOS will automatically detect the IDE hard disk mode and set it as one of the three modes.

### Remark

To support LBA or LARGE mode of HDDs, there must be some softwares involved which are located in Award HDD Service Routine(INT13h). It may fail to access a HDD with LBA (LARGE) mode selected if you are running under an Operating System which replaces the whole INT 13h.



## Video

Set this field to the type of video display card installed in your system.

EGA/ VGA	Enhanced Graphics Adapter / Video Graphic Array. For EGA, VGA, SEGA, SVGA or PGA monitor adapters.
CGA 40	Color Graphic Adapter, powering up in 40 column mode.
CGA 80	Color Graphic Adapter, powering up in 80 column mode.
MONO	Monochrome adapter, including high resolution monochrome adapters.

## Halt On

This category determines whether or not the computer will stop if an error is detected during powering up.

No errors	The system boot will not stop for any errors detected.
All errors	Whenever the BIOS detects a non-fatal error, the system will stop and you will be prompted.
All, But Keyboard	The system boot will not stop for a keyboard error; but it will stop for all other errors.
All, But Diskette	The system boot will not stop for a disk error; but it will stop for all other errors.
All, But Disk/Key	The system boot will not stop for a keyboard or disk error, but it will stop for all other errors.

## Memory

This is a Display-Only Category, determined by POST (Power On Self Test) of the BIOS.

Base Memory	The POST of the BIOS will determine the amount of base (or conventional) memory installed in the system.
Extended Memory	The BIOS determines how much extended memory is presented during the POST.
Total Memory	Total memory of the system.





QDI Innovation features



Figure-3 QDI Innovation features Menu

The following indicates the options for each item and describes their meaning.

Item	Option	Description
[SpeedEasyII setting]		
• CPU Clock Ratio	x1~x99	Select the multiplication of processor core frequency. If a Ratio locked processor is installed, this item will be hidden. This item is only for users understanding all the CPU parameters.
• AGP Voltage	Normal +10%	AGP Voltage is normal. AGP Voltage exceeds Normal by ten percent.
• DDR Voltage	Normal +10%	DDR Voltage is normal. DDR Voltage exceeds Normal by ten percent.
• CPU Host/PCI Clock	Default 100/33MHz ... .. 166/33MHz	Set CPU Host or PCI frequency.
• CPU Voltage	Default - 0.075V ... .. + 0.100V	Set CPU Voltage.





### [BootEasy setting]

- QDI BootEasy

*Enabled*  
feature  
*Disabled*

PC boot in rapid speed, without any redundant feature waiting for the displaying of starting OS.  
PC boot in the legacy BIOS way.

### [LogoEasyII setting]

- Show Bootup Logo

*Enabled*  
*Disabled*

The EPA logo can be shown when system boots show up.  
Close this function.

### [RecoveryEasyII setting]

- Menu language Select

*English*  
*Chinese*

Select RecoveryEasyII Interface Menu language.

- Hotkey for Backup/Recovery

*NULL*  
*F2~F12*

Backup/Recovery interface can not be used by Pressing Hotkey.  
Select Hotkey to enter Backup/Recovery interface during POST.

### [BIOS -protectEasy setting]

- Flash Write Protect

*Enabled*  
*Disabled*

This option is for protecting the system BIOS, when enabled, writing to BIOS area is to be discarded.



### Warning:

Be sure your selection is right. CPU over speed will be dangerous! We will not be responsible for any damages caused.





## Advanced BIOS Features Setup



Figure-4 Advanced BIOS Features Menu

The following indicates the options for each item and describes their meaning.

Item	Option	Description
Virus Warning	<i>Enabled</i>	Guard against boot virus threats early in the boot cycle, before they have a chance to load into your system, ensuring your computer boots to a clean operating system.
	<i>Disabled</i>	Disable this function.
CPU L1&L2 Cache	<i>Enabled</i>	Enable CPU L1/L2 cache.
	<i>Disabled</i>	Disable CPU L1/L2 cache.
CPU Hyper-Threading	<i>Enabled</i>	Enable Hyper-Threading.
	<i>Disabled</i>	Disabled Hyper-Threading.
Quick Power On Self Test	<i>Enabled</i>	Allow the system to skip certain tests while booting. This will decrease the time needed to boot the system.
	<i>Disabled</i>	Normal POST.
First (Second, Third) Boot Device Boot Other Device	<i>Disabled</i>	Select Your Boot Device Priority. It could be Disabled, Floppy, LS/ZIP, HDD-0, HDD-1, HDD-2, HDD-3, SCSI, CDROM, LAN, USB-FDD, USB-CDROM, USB-ZIP, USB-HDD.
	<i>Floppy</i>	
	<i>.....</i> <i>CDROM</i>	



• Swap Floppy Drive	<i>Enabled</i> <i>Disabled</i>	If the system has two floppy drives, choose enable to assign physical drive B to logical drive A and vice-versa.
• Boot Up NumLock Status	<i>On</i> <i>Off</i>	Keypad is used as number keys. Keypad is used as arrow keys.
• Gate A20 Option	<i>Normal</i> <i>controller.</i> <i>Fast</i>	The A20 signal is controlled by the keyboard controller. The A20 signal is controlled by Port92.
• Typematic Rate Setting	<i>Enabled</i> <i>Disabled</i>	Keystrokes repeat at a rate determined by the keyboard controller - when enabled, the typematic rate and typematic delay can be selected.
• Typematic Rate (chars/sec)	6-30	The rate at which character repeats when you hold down a key.
• Typematic Delay (Msec)	250-1000	The delay before keystrokes begin to repeat.
• Security Option	<i>Setup</i> <i>System</i>	Select whether the password is required every time the system boot or only when you enter setup.
• APIC Mode	<i>Enabled</i> <i>Disabled</i>	Enable the APIC mode(Advanced Programmable Interrupt Controller). Disabled the APIC mode.
• MPS Version Control for OS	1.1/1.4	Set the MPS Version Control for OS
• OS Select For DRAM>64MB	<i>Non-OS2</i> <i>OS2</i>	Select OS2 only if you are running OS/2 operating system with more than 64MB of RAM.
• HDD S.M.A.R.T. Capability	<i>Enabled</i> <i>Disabled</i>	Enable hard disk S.M.A.R.T. support. Invalidate this feature.
• Report NO FDD for WIN 95	<i>Yes</i> <i>No</i>	Report NO Floppy Disk Drive for WIN 95 to release IRQ6. Do not report No Floppy Disk Drive for WIN 95.



## Advanced Chipset Features Setup



Figure-5 Advanced Chipset Features Menu

The following indicates the options for each item and describes their meaning.

Item	Option	Description
• DRAM Timing Selectable	<i>Manual</i> <i>By SPD</i>	DRAM timing is defined by user. DRAM timing is defined by SPD.
• CAS Latency Time	1.5~3	Set CAS latency time.
• Active to Precharge Delay	5,6,7	Set precharge delay time.
• DRAM RAS# to CAS# Delay	2,3	Set DRAM RAS# to CAS# delay 3 SCLKs or 2 SCLKs.
• DRAM RAS#Precharge	2,3	Set DRAM RAS# precharge as 3 or 2.
• Memory Frequency For	<i>Auto</i> <i>DDR200</i> <i>DDR266</i>	Set Memory Frequency



• System BIOS Cacheable	<i>Enabled</i>	Besides conventional memory, the system BIOS area is also cacheable.
	<i>Disabled</i>	System BIOS area is not cacheable.
• Video BIOS Cacheable	<i>Enabled</i>	Besides conventional memory, video BIOS area is also cacheable.
	<i>Disabled</i>	Video BIOS area is not cacheable.
• Delayed Transaction	<i>Enabled</i>	Enable Delayed Transaction.
	<i>Disabled</i>	Disable Delayed Transaction.
• Delay Prior to thermal	<i>4/8/16Min 32Min</i>	Setting time for CPU automatically enters thermal mode
• AGP Aperture Size	<i>4/8/16/32 64/128 256MB</i>	Set the effective size of the Graphics Aperture to be used in the particular GART Configuration.
• On-Chip VGA	<i>Enabled</i>	Set the function of the onboard VGA.
	<i>Disabled</i>	Disable the function (only available on onboard VGA).
• On-Chip Frame Buffer size	<i>1/8MB</i>	Set share memory of onboard VGA(only available on onboard VGA).
• Auto Detect PCI Clk	<i>Enabled</i>	Close empty PCI clock to reduce EMI.
	<i>Disabled</i>	Do not close empty PCI clock.
• Spread Spectrum	<i>+/-0.25%</i>	Enable Clock Spread Spectrum to reduce EMI.
	<i>...</i>	
	<i>+/-0.38%</i>	Disable this function.
	<i>Disabled</i>	



## Power Management Setup



Figure-6 Power Management Setup Menu

The following indicates the options for each item and describes their meaning.

Item	Option	Description
• ACPI function	<i>Enabled</i>	Enable ACPI function.
• ACPI Suspend Type	<i>S1(POS)</i> <i>S3(STR)</i>	Select the ACPI suspend type.
• Run VGABIOS if S3 Resume	<i>Auto</i> <i>Yes/No</i>	Select to Run VGABIOS after the system be waked up.
• Power Management	<i>User Define</i> <i>Min Saving</i> <i>Max Saving</i>	Users can configure their own Power Management Timer. Pre - defined timer values are used. All timers are in their MAX values. Pre - defined timer values are used. All timers are in their MIN values.
• Video Off Method	<i>Blank Screen</i> <i>V / H SYNC + Blank</i> <i>DPMS</i>	The system BIOS will only blank off the screen when disabling video. In addition to Blank Screen, BIOS will also turn off the V-SYNC & H - SYNC signals from VGA card to monitor. This function is enabled only for VGA cards supporting DPMS. <b>Note: When the green monitor does not detect the V/H-SYNC signals, the electron gun will be turned off.</b>



• Video Off In Suspend	Yes	The system will disable video when entering suspend mode.
	No	Do not turn off video when entering suspend mode.
• Suspend Type	Stop Grant	Select the Suspend type.
	PwrOn Suspend	
• MODEM Use IRQ	3,4,5,7,9,10,11	Special Wake-up event for Modem.
	NA	This function is not applied.
• Suspend Mode	Disabled	The system never enter Suspend mode by timer. Define the continuous idle time before the system enters Suspend mode. If any items defined in "PM Events" are on and activated, the system will be woken up.
	1Min ~ 1Hour	
• HDD Power Down	Disabled	HDD's motor will not be off by timer. Define the continuous HDD idle time before the HDD enters power saving mode (motor off).
	1 - 15 Min	
• Soft-Off by PWR-BTTN	Instant-Off	The system will immediately power off once the power button is pressed.
	Delay 4 sec	The system will power off when power button is pressed for 4 seconds.
• CPU THRM-Throttling	12.5%, 25%, 37.5%, 50%, 62.5%, 75%, 87.5%	Select the duty cycle of the STPCLK signal, slowing down the CPU speed when the system enters green mode.
• Wake-Up by PCI card	Enabled	Allow the system to be waked up by PCI card.
	Disabled	Do not allow the system to be powered on by PCI card.





<ul style="list-style-type: none"> <li>Power on by Ring/LAN</li> </ul>	<i>Enabled</i>	Allow the system to be powered on when a Ring indicator signal comes up to COM1 or COM2 from external modem (to LAN Wake-up Header from LAN adapter or to modem Ring on Header from internal modem card).
	<i>Disabled</i>	Do not allow Ring/LAN wake up.
<ul style="list-style-type: none"> <li>Wake Up From S3 by USB</li> </ul>	<i>Enabled</i>	The system could be waked up by USB devices from the S3 status.
	<i>Disabled</i>	The system cannot be waked up by USB devices from the S3 status.
<ul style="list-style-type: none"> <li>Resume by Alarm</li> </ul>	<i>Enabled</i>	RTC alarm can be used to generate a wake-up event to power up the system.
	<i>Disabled</i>	RTC has no alarm function.
<ul style="list-style-type: none"> <li>Primary/Secondary IDE 0/1</li> </ul>	<i>Enabled</i>	Reload global timer, when there's an IDE event.
	<i>Disabled</i>	Do not reload global timer.
<ul style="list-style-type: none"> <li>FDD/COM/LPT Port</li> </ul>	<i>Enabled</i>	Reload global timer, when there's a FDD/COM/LPT event.
	<i>Disabled</i>	Do not reload global timer.
<ul style="list-style-type: none"> <li>PCI PIRQ[A - D] #</li> </ul>	<i>Enabled</i>	Reload global timer, when there's a PCI event.
	<i>Disabled</i>	Do not reload global timer.



## PNP/PCI Configurations Setup

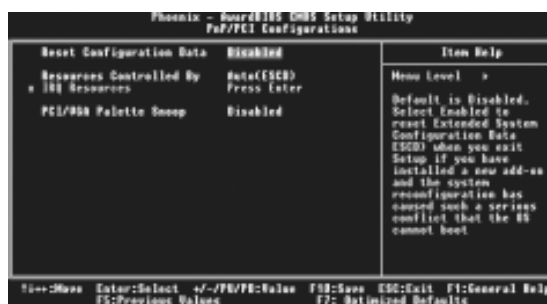


Figure-7 PNP/PCI Configurations Setup Menu

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The following indicates the options for each item and describes their meaning.

Item	Option	Description
• Reset Configuration Data	<i>Enabled</i> <i>Disabled</i>	The system BIOS will reset configuration data once then automatically set this item as disabled. Disable this function.
• Resources Controlled By	<i>Manual</i> <i>Auto(ESCD)</i>	Assign the system resources manually. Assign system resources automatically by BIOS.
• PCI/VGA Palette Snoop	<i>Enabled</i> <i>Disabled</i>	Enable PCI/VGA Palette Snoop. Disable PCI/VGA Palette Snoop.





## Integrated Peripherals



Figure-8 Integrated Peripherals Menu

The following indicates the options for each item and describes their meaning.

Item	Option	Description
On-Chip Primary/Secondary PCI IDE	<i>Enabled</i> <i>Disabled</i>	On-Chip Primary/Secondary PCI IDE is enabled. On-Chip Primary/Secondary PCI IDE is disabled.
IDE Primary/ Secondary Master/Slave PIO	<i>Mode 0 - 4</i> <i>Auto</i>	Define the IDE primary/secondary master/slave PIO mode. The IDE PIO mode is defined by auto -detection.
IDE Primary/ Secondary Master/Slave UDMA	<i>Auto</i> <i>Disabled</i>	Ultra DMA mode will be enabled if an Ultra DMA device is detected. Disable this function.
USB Controller	<i>Enabled</i> <i>Disabled</i>	Enable onchip USB controller. Disable onchip USB controller.
USB Keyboard Support	<i>Enabled</i> <i>Disabled</i>	Support USB Keyboard under legacy OS. Do not support USB Keyboard under legacy OS.
AC97 Audio	<i>Auto</i> <i>Disabled</i>	If audio codec was installed on board, the AC97 Audio function can be used. otherwise, the function is disabled. Disable the AC97 Audio onboard.
AC97 Modem	<i>Auto</i> <i>Disabled</i>	If modem codec was installed on board, the AC97 modem function can be used. otherwise, the function is disabled. Disable the AC97 Modem onboard.



Onboard LAN Selection	<i>Auto</i> <i>Disabled</i>	The onboard LAN is enabled. The function is disabled.
Init Display First	<i>PCI Slot</i> <i>AGP</i>	Initialize the PCI VGA first. Initialize the AGP first.
IDE HDD Block Mode	<i>Enabled</i> <i>Disabled</i>	Allow IDE HDD to read/write several sectors once. IDE HDD only reads/writes a sector once.
KBC input clock	<i>6/8/12/16MHz</i>	Set the PS/2 Keyboard input clock as 6/8/12/16MHz.
Power On Function	<i>Button only</i> <i>Password</i>	Power on by power button. Power on with keyboard password.
KB Power ON Password	<i>Enter</i>	Enter keyboard password.
Onboard FDC Controller	<i>Enabled</i> <i>Disabled</i>	Onboard floppy disk controller is enabled. Onboard floppy disk controller is disabled.
Onboard Serial Port 1/2	<i>3F8/IRQ4</i> <i>2F8/IRQ3</i> <i>3E8/IRQ4</i> <i>2E8/IRQ3</i> <i>Auto</i> <i>Disabled</i>	Define the onboard serial port address and required interrupt number.  Onboard serial port address and IRQ are automatically assigned. Onboard serial port is disabled.
UART Mode Select	<i>Normal, IrDA</i> <i>ASKIR</i>	Set UART mode.
RxD, TxD Active	<i>Hi, Lo/Lo, Hi</i> <i>Lo, Lo/ Hi, Hi</i> <i>Full</i>	Default is recommended.
IR Transmission Delay	<i>Enabled</i> <i>Disabled</i>	Enable IR Transmission delay function. Disable IR Transmission delay function.
UR2 Duplex Mode	<i>Half</i> <i>Full</i>	Default is recommended.





• Use IR Pins	<i>IR-Rx2Tx2 RxD2, TxD2</i>	Default is recommended.
• Onboard Parallel Port	<i>378/IRQ7 278/IRQ5 3BC/IRQ7 Disabled</i>	Define parallel port address and IRQ channel.  Onboard parallel port is disabled.
• Parallel Port Mode	<i>SPP EPP ECP ECP+EPP Normal</i>	Define the parallel port mode.
• EPP Mode Select	<i>EPP1.7 EPP1.9</i>	Set EPP Mode as EPP 1.7 or EPP1.9 Version.
• ECP Mode Use DMA	<i>3 1</i>	Set ECP Mode Use DMA 1 or 3.
• PWRON After PWR-Fail	<i>OFF, ON Former-Sts</i>	The system remains OFF/ON/Former state when the AC power supply resumes.
• Game Port Address	<i>Disabled 201,209</i>	This option is used to configure Game Port Adress.
• Midi Port Address	<i>Disabled 290 300 330</i>	This option is used to configure Midi Port Address.
• Midi Port IRQ	<i>5 10</i>	This option is used to configure Midi Port IRQ.





PC Health Status



Figure-9 PC Health Status Menu

The following indicates the options for each item and describes their meaning.

Item	Option	Description
42 CPU Warning Temperature	50°C/122°F	An alarm will beep when the CPU temperature reaches the previous setting, 50°C/122°F, 53°C/127°F, 56°C/133°F, 60°C/140°F, 63°C/145°F, 66°C/151°F, 70°C/158°F, 75°C/167°F, 80°C/176°F, 85°C/185°F, 90°C/194°F, 95°C/205°F.
	53°C/127°F	
	56°C/133°F	
	60°C/140°F	
	63°C/145°F	
	66°C/151°F	
	70°C/158°F	
	75°C/167°F	
	80°C/176°F	
	85°C/185°F	
	90°C/194°F	
	95°C/205°F	
	Disabled	No alarm beep.
Current System Temp.		The temperature inside the chassis.
Current CPU Temperature		The temperature of CPU.





<ul style="list-style-type: none"> <li>Current PWRFAN Speed</li> <li>Current CPUFAN Speed</li> <li>Current CHSFAN Speed</li> </ul>		<p>RPM (Revolution Per Minute) Speed of fan which is connected to the fan header, CPUFAN, CHSFAN or PWRFAN. Fan speed value is based on an assumption that tachometer signal is two pulses per revolution. In other cases, you should regard it relatively.</p>
<ul style="list-style-type: none"> <li>Vcore(CPU) Voltage, +3.3V +5 V +12 V -12 V VBAT Voltage 5V Standby Voltage</li> </ul>		<p>Display current voltage value including all significant voltages of the mainboard. +3.3V, +5V, +12V, -12V are voltages from the power supply.</p> <p>Vcore (CPU) Voltage is the CPU core voltage from the on board switching Power Supply. The VBAT Voltage is the voltage of battery.</p>
<ul style="list-style-type: none"> <li>Shutdown Temperature</li> </ul>	<p>60°C/140°F 65°C/149°F 70°C/158°F 75°C/167°F Disabled</p>	<p>The system will shut down automatically under the ACPI OS when the CPU temperature reaches the previous setting.</p> <p>The system remains on regardless of how much the CPU temperature is.</p>



## Password Setting

When this function is selected, the following message appears at the center of the screen to assist you in creating a password.

### **ENTER PASSWORD**

Type the password, up to eight characters, and press <Enter>. The password typed now will clear any previously entered password from CMOS memory. You will be asked to confirm the password. Type the password again and press <Enter>. You may also press <Esc> to abort the selection.

To disable password, just press <Enter> when you are prompted to enter password. A message will confirm the password being disabled. Once the password is disabled, the system will boot and you can enter BIOS Setup freely.

### **PASSWORD DISABLED**

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If you have selected "**System**" in "Security Option" of "BIOS Features Setup" menu, you will be prompted for the password every time the system reboots or any time you try to enter BIOS Setup.

If you have selected "**Setup**" at "Security Option" from "BIOS Features Setup" menu, you will be prompted for the password only when you enter BIOS Setup.

Supervisor Password has higher priority than User Password. You can use Supervisor Password when booting the system or entering BIOS Setup to modify all settings. Also you can use User Password when booting the system or entering BIOS Setup but can not modify any setting if Supervisor Password is enabled.

## Boot with BIOS defaults

If you have made all the changes to CMOS values and the system can not boot with the CMOS values selected in setup, clear CMOS after power-down, then power on again. System will boot with BIOS default settings.





## Appendix

### QDI Utility CD

A QDI Utility CD is supplied with this mainboard, the contents contained in it are showed as below:

#### 1. Driver Install

Using this choice, you can install all the drivers for your mainboard . You should install the drivers in order, and you need to restart your computer until all the drivers are installed.

- |                             |                            |
|-----------------------------|----------------------------|
| A. Chipset software         | B. IAA Setup               |
| C. VGA Driver               | D. USB2.0 Driver(optional) |
| E. Network Driver(optional) | F. Audio Driver(optional)  |
| G. DirecrX                  |                            |

#### 2. Accessory

- |                          |               |
|--------------------------|---------------|
| A. Norton AntiVirus 2002 | B. QFlashV1.0 |
|--------------------------|---------------|

#### 3. Browse CD

You could read all the contents contained in this CD, including Utility and Documents.

The files included in Utility are:

- |                 |              |
|-----------------|--------------|
| A. Awdflash.exe | B. Cblog.exe |
| C. Lf.exe       |              |

The files included in **Documents** are:

- |                              |
|------------------------------|
| A. Adobe Acrobat Reader V5.0 |
|------------------------------|

### Norton AntiVirus

When you install Norton AntiVirus and accept options, your computer is safe. Norton AntiVirus automatically checks boot records for viruses at system startup, checks programs for viruses at the time you use them, scans all local hard drives for viruses once per week, and monitors your computer for any activity that might indicate the work of a virus in action. It also scans files you download from the internet and checks floppy disks for boot viruses when you use them.

The list below shows the most important tasks Norton AntiVirus helps you perform: Scan for viruses on your computer; Remove viruses from your computer; Update your virus protection with LiveUpdate; Quarantine an infected file. you can go to the Symantec Web site to view an online tutorial: <http://www.symantec.com/techsupp/tutorial>



## LogoEasy II



Thank you for using QDI upgraded innovation--- LogoEasy II, which is completely compatible with LOGOEASY. LOGOEASY II can be easily operated in a Windows environment, following in steps with the trend. It has added the functions of supporting JPEG images and true color display of 64K and 16M colors with regard to JPEG-format graphics files and the high-precision display equipment, which are now widely used.

LOGOEASY II supports the high-resolution 640x480 or 800x600 image display and full-screen, top right corner or bottom right corner display. It also supports simultaneous display of logo and sign-on message of the BIOS testing system. LOGOEASY II is a tool that can be operated in multi-platforms to refresh and change LOGO graphics including DOS, WINDOWS 9X, WINDOWS NT, WINDOWS ME and WINDOWS XP. In particular, the tools under the interface of WINDOWS are simple and easy to operate. It teaches you by taking your hand how to change LOGO.

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ITEM		LogoEasy II	LogoEasy
Colors	16 colors	not support	not support
	256 colors	support	support
	16M colors	support	not support
Resolution	640*480	support	support
	800*600	support	not support
Display Self-test message at the same time		support	support
Full Screen Logo		support	support
Display logo on corners		support	support

When you power on or reset your system, the picture shown below will be displayed on the screen.

You can use "**LogoEasy II**" to replace it by any other logo which you want.

We provide two Utilities in the QDI Driver CD , which bring user the following two means to select:







#### A. Using CBLOGO.EXE Utility (Under DOS ):

1. Copy "CBLOGO.EXE" and "AWDFLASH.EXE" from the directory \Utility located on QDI Driver CD to your hard disk.
2. Get the BIOS file from "AWDFLASH.EXE" or Download the BIOS file from the Website (<http://www.qdigrp.com>) and copy the BIOS file(xxxxxx.bin) to your hard disk.
3. Boot the system into DOS environment, Put your favor picture into BIOS file by "CBLOGO.EXE" command. For example: CBLOGO.EXE xxxxxx.bin myphoto.bmp
4. Flash the BIOS to motherboard by "AWDFLASH.EXE". For example: AWDFLASH xxxxxx.bin

#### B. Using QFlash (Under Windows ):

1. Download the QFlash Utility from the Website (<http://www.qdigrp.com>) or get it from QDI Driver CD.
2. Run QFlash program step by step, following the directions until complete it .
3. Reboot the system, you can see the new picture displayed on the screen.



**Note:** If you require more parameters information concerning "CBLOGO.EXE", please refer to the online help. If you don't prefer the logo displayed on the screen during bootup, set the "Show Bootup Logo" option as Disabled in CMOS Setup.

## BIOS\_ProtectEasy



The BIOS of the mainboard is contained inside the Flash ROM. Severe viruses such as CIH virus are so dangerous that it may overwrite the BIOS of the mainboard. If the BIOS has been damaged, the system will be unable to boot. We provide the following solution which protects the system BIOS from being attacked by such viruses.

There are two choices which implements this function.

1. Set the jumper (BIOS\_WP) as closed, the BIOS can not be overwritten.
2. Set the jumper (BIOS\_WP) as opened, meanwhile set "Flash Write Protect" as Enabled in CMOS Setup. In this way, the BIOS can not be overwritten, but the DMI information can be updated.



## RecoveryEasy II



### Introduction:

RecoveryEasy II — the latest edition of RecoveryEasy, providing a more easy-to-operate and more secure and reliable tool for backing up and recovering the hard disk data. It will make your data on the hard disk more secure, and make your computer more reliable. RecoveryEasy II will bring you invaluable experiences. It allows you to experience unprecedented security and reliability with its one-hotkey backup, one-hotkey recovery and powerful virus-free functions.

### Features:

RecoveryEasy II has the following features:

⇒ **Secure Backup**

- (1) Backup area can be reserved automatically in the High Memory Block (HMB) and all of partitions can be adjusted automatically .
- (2) Backup area is invisible to any operating system and its upper software, making it impossible to be attacked completely.

⇒ **Ease to Operate**

- (1) RecoveryEasy II is supported in both Chinese and English. You can easily enter Backup or Recover interface by simply pressing hotkeys. Backup or recover operation can be done with simple choices.
- (2) User are not required to define the size of backup area. When backup start, it will automatically allocate an area in the High Memory Block (HMB) of hard disk as backup area upon the necessity of data storage, so as to improve the utilization of hard disk space.

⇒ **Advantage Function**

- (1) Multiform partition format can be supported in RecoveryEasy II, including FAT16, FAT32, NTFS etc.
- (2) The capability of supportable Hard Disk is up to 137GB.

⇒ **Flexible Combination**

The hard disk data can be choosed to be protected and restored as required.



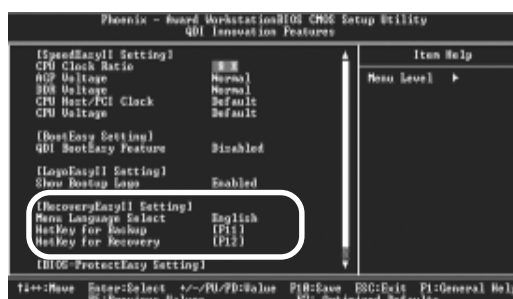


The following attachment is Backup and Recovery Function table:

Backup	Backup content	Restore content
Partition Table	Partition Table	Partition Table
System Partition	System Partition+Partition Table	System Partition, PartitionTable
Whole Disk	All Partitions+Partition Table	System Partition, PartitionTable, Whole Disk
CMOS Setup	CMOS Setup	CMOS Setup

## Menu Language and Hotkey Selection

Please press “DEL” key to enter CMOS setup during the POST(Power On Self Test), then user can see [RecoveryEasyII Setting] items of the “QDI Innovation features” menu, in which the language on RecoveryEasyII interface and hotkey could be selected .



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figure-1 QDI Innovation Features

### 1. Menu language Select

We provide two menu language for user to select, English is the default.

### 2 . Hot key for Backup

There are 12 options, including NULL and F2~F12. Key F11 is default. If NULL is selected, Backup interface can not be used with pressing hotkey. If you select one key of the rest 11options, you can enter Backup interface by pressing the hotkey you setup during POST.



### 3. Hot key for Recovery

There are 12 options, including NULL and F2~F12. Key F12 is default. If NULL is selected, Restore interface can not be used with pressing hotkey. If you select one key of the rest 11 options, you can enter Recover interface by pressing the hotkey you setup during POST.



**Note:** If the Backup hotkey and Recover hotkey have been set with the same key, the default will be Backup hotkey.

### Hard Disk Selection Menu

If you installed the system with several IDE hard disks, and you have pressed the backup or restore hotkey during POST, hard disk selection menu will popup before you enter backup or recovery interface, in which all of the IDE hard disks installed on your system will be listed. You can scroll the highlight bar to the hard disk you want to work with using arrow key. Press ENTER to confirm, and the following operation will be performed on the selected hard disk:



figure-2 Hard Disk Select

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### Backup Function Introduction

press Backup Hotkey to enter Backup Interface during the POST(Power On Self Test), then the following interface will appear. You can scroll the highlight bar to the option you want to work with using arrow key. Press ENTER to confirm.

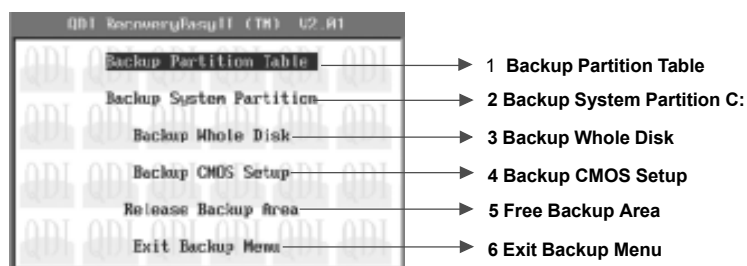


figure-3 Backup Interface



### 1 Backup Partition Table

It is used to backup partition table of current hard Disk. A partition table keeps the status of the hard disk partitions, such as the number of partitions, the type and size of each partition, etc. It is the most important information of the hard disk data structure. The incorrectness or loss of the table will result in the failure of reading data from the hard disk partitions.

### 2 Backup System Partition

It is used to backup the system partition of current hard disk. It makes a backup of the data in the bootable partition (active partition) of current hard disk, as well as the partition table.

### 3 Backup Whole Disk

It makes a backup of all the useful data on the hard disk, including partition table and the data in all partitions.

### 4 Backup CMOS Setup

It is used to backup the settings you have made in the CMOS Setup.

### 5 Release Backup Area

It is used to unload the backup data on the hard disk, freeing the hard disk space.

### 6 Exit Backup Menu

It is used to Exit Backup Interface.

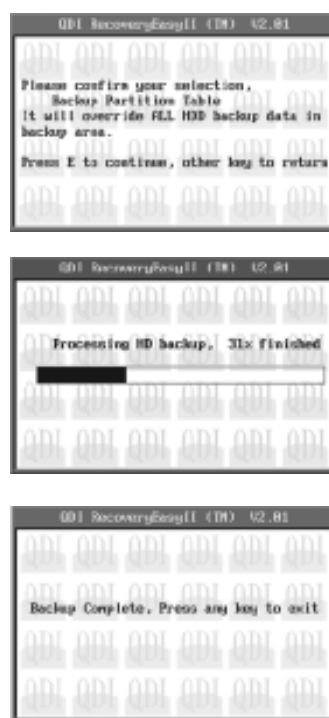


figure-4 Backup process

## Recovery Function Introduction

Press Recovery Hotkey to enter Recovery Interface during the POST (Power On Self Test), then the following interface will appear. You can scroll the highlight bar to the option you want to work with using arrow key. Press ENTER to confirm.



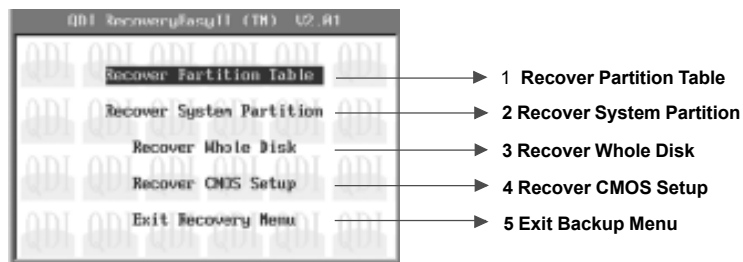


figure-5 Recover Interface

### 1.Recover Partition Table

It used to restore the partition table data stored in backup area to current Hard Disk.

### 2.Recover System Partition

It used to restore the system partition data stored in current backup area to current system partition. If current system partition doesn't match the backup system partition, a warning will be displayed indicating the recovery fails. This feature will only restore the bootable partition and contents in other partitions will be untouched.

### 3.Recover Whole Disk

It used to restore all the Hard Disk data stored in current backup area to current Hard Disk. This operation will restore the partition table and data in all partitions, as a result, existing data in current Hard Disk will be overwritten.

### 4.Recover CMOS Setup

This will restore the latest backup of the CMOS Settings you have made to the current CMOS.

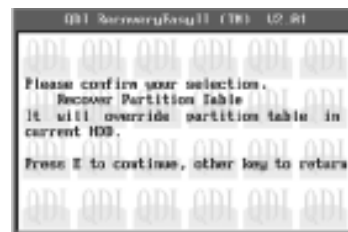


figure-4 Recover process



## SpeedEasy II



### Overview:

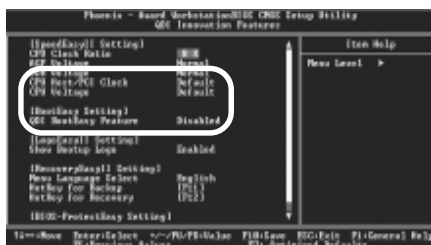
SpeedEasy II — has just recommended is the upgraded edition of SpeedEasy In addition to some functions of SpeedEasy, including the wire jumper-free function, the users can also realize in the BIOS setup the CPU core voltage adjustability. This doubtless renders a quicker and easier mode for overclocking and will further help the users to tap the maximum potentiality of the system.

### Procedures:

1. Correctly insert the your CPU.
2. Plug in other configurations and restore the system.
3. Switch on power to the system and press the <Del> key to enter BIOS Setup.
4. Enter "QDI Innovation features" menu to set up the CPU speed.
5. Set CPU Clock ratio and CPU/DRAM Frequency and adjust CPU voltage.
6. Save and exit BIOS Setup, your system will now boot successfully.

### CPU SpeedEasyII Setup Menu

Select <QDI Innovation features> item from the main menu and enter the sub-menu:



QDI Innovation features Menu

BIOS provides you with a set of basic values for your processor selection instead of the jumper settings. The processor speed can be manually selected on the "QDI Innovation features" menu screen.



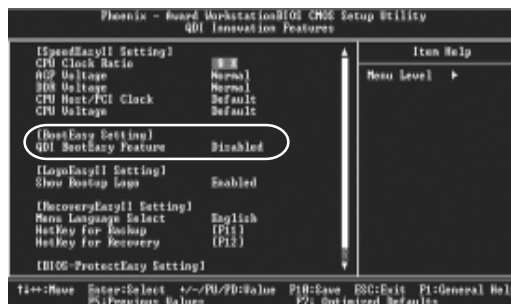
**Warning:** Do not set CPU frequency higher than its working frequency. If you do, we will not be responsible for any damages caused.



## BootEasy



BootEasy technology enormously improves the long BOOT process time of computers. Reducing the wait time every user has to suffer when starting their computer. BIOS without BootEasy has to perform many routines every time when the system starts, such as checking system core of the computer and initializing system peripherals. Now with the BootEasy, BIOS will not run these repetitive Processes any longer, PC can boot-up without any redundant waiting for the displaying of starting OS. BootEasy is quite easy to use, choose the right option in CMOS SETUP, (refer to QDI Innovation features) it can be easily booted quickly. BootEasy save all the information when PC first normally boot-up, and it restores all the parameters for the system and thus let the PC boot freely and rapidly.



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- Note:**
- Under the following conditions, PC will boot-up in normal way.
    - (1) PC boot-up for the first times after set option as Enabled.
    - (2) the system information saved by BIOS was damaged.
    - (3) PC fail to boot-up continually over three times.
 Setting the jumper BIOS\_WP as open if you encounter the above conditions.
  - Don't power off or reset system while BootEasy initializing.
  - set "QDI BootEasy Feature" as "Disabled" before you replace system equipment.set "QDI BootEasy Feature" as "Enabled" after you accomplished replacing.



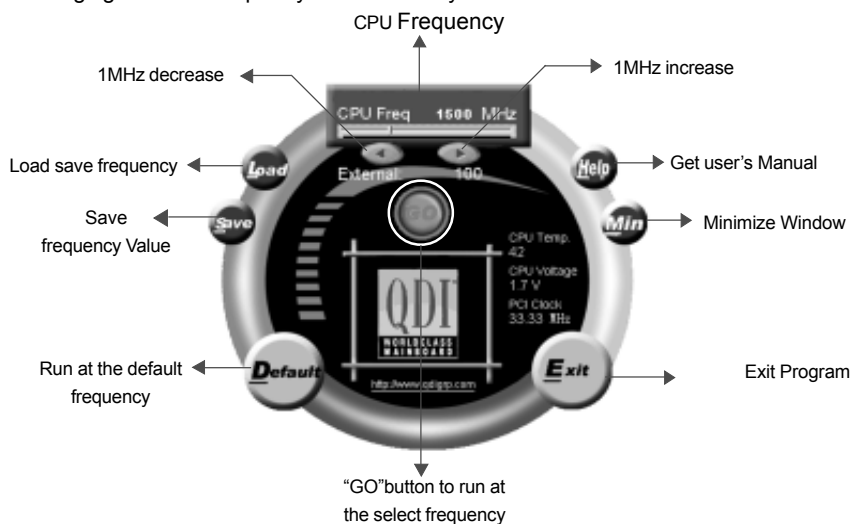


## StepEasyII



As one of the Legend QDI's innovations, StepEasyII is a powerful and efficient Easy Technology for PC DIY fans. It provides a friendly interface for you that you can adjust the CPU frequency conveniently and directly. It is so powerful that you can change the CPU frequency just in a few seconds under the operating system(Windows 95/98/ME/2000/NT) and have no need to reset the PC or change the jumpers. In addition, StepEasyII can decrease the risk of changing the CPU frequency to minimum. As long as you conform to the steps of tuning the CPU frequency, there is almost no risk to adjust the frequency. Its second strong function is system monitoring, enables you to view some key reference data concerning computer health in real time.

The following figure is the StepEasyII interface for you reference:



**Because there exists some risk for the CPU chip or the mainboard to change the CPU frequency , We suggest you read the manual carefully before installing QDI StepEasyII. When start QDI StepEasyII, to avoid accident, we recommend you to close your other program before run StepEasyII.**

1. You can click on the 1MHz increase (1MHz decrease) or press shortcut key "+"("-" )to set the wanted frequency, then click on the "GO" button to get the wanted frequency.
2. Also, you can click on the "Default" button , then click on the "GO" button to get the default frequency.
3. StepEasyII considerably provides users to save his successful CPU tune frequency for later use .If user wants to save the current frequency , he can clicks on the "Save" button to realize it.
4. When click on the "Load" button , the saved CPU frequency is obtained immediately.
5. When click on the "Min" button, the utility will minimize to an icon in the right-bottom task tray. Whenever user clicks the QSE(QDI StepEasyII abbr.) icon in the task tray, the utility will be activated in the current window.
6. The real-time system information such as CPU temperature,CPU voltage and PCI clock will automatic shown on the ineterface.

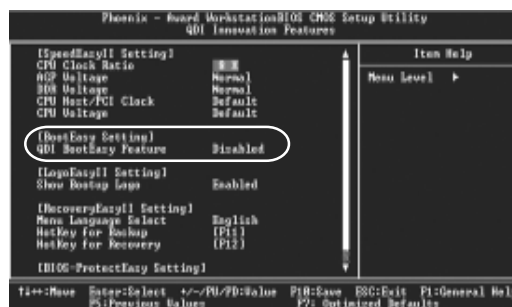
**Note:**

1. QDI StepEasyII can only support the QDI motherboard with the clock chip that supports StepEasyII.
2. The performance of StepEasyII depends on the CPU, DRAM, peripheral equipments and the software running.
3. There exist some risks to change the CPU frequency for the CPU or motherboard. StepEasyII can decrease the risks to minimum. But Legend QDI will not be responsible for any damages caused.
4. If the system halts while running StepEasyII, please press the power button until the system powers down .Restart your computer ,and the system will run in the normal status.
5. When the system was woken up from S3 or S4 status,please click on the "GO"button to run at the selected frequency.



## QDI BootEasy(German)

BootEasy ist eine Neuentwicklung von Legend QDI, die neue Innovation der QDI Easy-Technologien.



BootEasy Setup Menu

Mit der BootEasy- Technologie Technik wird der Bootvorgang nur noch vier bis fünf Sekunden in Anspruch nehmen, bis das Betriebssystem geladen wird. Der Grund für die lange Wartezeit liegt in den Routine-Abfragen, die das BIOS bei jedem Start abarbeitet. So wird beispielsweise jedes Mal die Taktfrequenz des Prozessors geprüft oder angeschlossene Geräte aktiviert. Die BootEasy-Technik prüft diese Punkte nur beim erstmaligen Start des Rechners und speichert die Ergebnisse in einem Flash ROM. Beim nächsten Start ruft das System lediglich diese Informationen aus dem Speicher ab und kann so innerhalb von wenigen Sekunden den Boot-Prozess abschließen.

Bei Änderungen am System, beispielsweise nach dem Einbau eines neuen Prozessors, muss deshalb zuvor die BootEasy-Funktion deaktiviert werden, beim nächsten Start werden die neuen Informationen dann erneut abgespeichert.

Falls Fehler im Flash ROM den Bootvorgang behindern, versucht das System drei Mal den Rechner hochzufahren, bei Misserfolg schaltet es auf die althergebrachte Art zu booten um, das heißt, es dauert wieder ebenso lang wie früher. Anschließend kann die BootEasy – Technik wieder aktiviert werden.

Falls Fehler im Flash ROM den Bootvorgang behindern, versucht das System drei Mal den Rechner hochzufahren, bei Misserfolg schaltet es auf die althergebrachte Art zu booten um, das heißt, es dauert wieder ebenso lang wie früher. Anschließend kann die BootEasy – Technik wieder aktiviert werden.

### **Instalación de la placa base QDI P8/333(Spanish):**

1. Asegúrese que se incluyen los siguientes artículos: Placa base QDI P8/333, 1 cable de datos para el puerto IDE y 1 cable de datos para el Floppy, jumpers, 1 manual de usuario QDI P8/333y un disco compacto con los controladores de la placa base QDI P8/333.
2. Asegúrese de que el cable de la fuente de alimentación esta desconectado y asegúrese de estar en contacto a masa utilizando una pulsera antiestática. Si no dispone de dicha pulsera, toque un objeto directamente conectado a masa o una parte metálica de su equipo como puede ser la caja de este.
3. Fije la placa base en la caja de su equipo con los tornillos especiales que acompañan a su caja.
4. Los jumpers están localizados en la placa base, con ellos se configuran, por ejemplo: Clear CMOS CLR\_CMOS, Habilitar BIOS ProtectEasy BIOS\_WP etc..., el PIN1 para todos los jumpers esta marcado con una línea más gruesa (Consulte el apartado "Jumper Settings" en el manual de usuario de su placa QDI P8/333 en el capítulo 2).
5. Inserte el procesador en el socket y conecte el ventilador del procesador en el conector de su placa base QDI P8/333 marcado como "CPUFAN".
6. Inserte los módulos de memoria en los bancos de memoria DIMM de su placa base QDI P8/333.
7. Inserte las tarjetas PCI y/o la tarjeta AGP en las bahías de expansión de su placa base QDI P8/333.
8. Conecte los periféricos internos IDE y las disqueteras mediante los cables de datos específicos a su placa base QDI P8/333. Asegúrese que la orientación de los cables sea la correcta. (El cable rojo se corresponde con el pin 1).
9. Conecte los cables de la caja del ordenador a su placa base QDI P8/333, como el conector de la fuente de alimentación, los testigos de corriente, y lectura de disco duro, interruptores de inicio y reset (consulte el apartado "External Connectors" del manual de usuario de su placa base QDI P8/333).





10. Conecte los diferentes periféricos externos como el teclado PS/2, ratón PS/2, serie o USB, los dispositivos USB, el monitor y la impresora a la placa base QDI P8/333 (consulte el apartado "External Connectors" en el manual de su placa base QDI P8/333, en el capítulo 2).
11. Cuando haya finalizado de realizar todas las conexiones, conecte el cable de alimentación a la fuente de alimentación y encienda su PC:

#### **Instalación del sistema:**

1. Encienda su equipo mediante el interruptor de encendido de la caja.
2. Presione la tecla « Supr » para entrar en el menú de configuración de la BIOS.
3. Seleccione los valores de la Bios en concordancia con la configuración de su sistema (Nosotros le recomendamos que deje los valores establecidos por la Bios por defecto, para evitar posibles fallos que ocasionen que su sistema no funcione correctamente). Para más información las funciones de la Bios, consulte el apartado "BIOS Description" en el manual de usuario de la placa base QDI P8/333). Presione la tecla « F10 » y seleccione la opción "Save & Exit Setup" en el menú de configuración de la Bios para guardar los cambios y reiniciar el sistema.
4. Instale el sistema operativo en el disco duro, no se olvide de seleccionar la secuencia de inicio correcta para que el sistema operativo pueda iniciarse.
5. Después de la instalación del sistema operativo, asegúrese que no hay conflictos con ningún dispositivo de su sistema.
6. Entonces, después del último paso, proceda a la instalación de los controladores de los diferentes dispositivos.

**Un disco compacto con controladores de QDI esta incluido en el paquete de la placa base QDI P8/333.**

#### **1. Instalación de los controladores**

Usted puede instalar todos los controladores para su placa base facilmente. Tiene que instalar los controladores en el siguiente orden para un correcto funcionamiento del sistema, y es necesario reiniciar el equipo antes de finalizar la instalación de los controladores.





- |                             |                            |
|-----------------------------|----------------------------|
| A. Chipset software         | B. IAA Setup               |
| C. VGA Driver               | D. USB2.0 Driver(optional) |
| E. Network Driver(optional) | F. Audio Driver(optional)  |
| G. DirecrX                  |                            |

## **2. Accesorios**

- |               |                          |
|---------------|--------------------------|
| A. QFlashV1.0 | B. Norton AntiVirus 2002 |
|---------------|--------------------------|

## **3. Navegue por el CD**

Usted puede leer todos los documentos incluidos en este CD, incluidos Utility and Documents.

Los ficheros incluidos en **Utility** son:

- |                 |              |
|-----------------|--------------|
| A. Awdflash.exe | B. Cblog.exe |
| C. Lf.exe       |              |





## Manuel d'installation des cartes mères de la série QDI P8/333 (French):

### Intégration du système :

1. Vérifier la présence de chaque élément dans la boîte de la carte mère de la série QDI P8/333 :
  - ☒ Une carte mère de la série QDI P8/333.
  - ☒ Un CD-ROM d'installation QDI.
  - ☒ Un manuel d'utilisation de la carte mère QDI P8/333.
  - ☒ Un sachet de cavaliers.
  - ☒ Une nappe IDE compatible avec la norme ATA/66 destinée au lecteur de disque dur.
  - ☒ Une nappe destinée au lecteur de disquette.
  - ☒ Un fond de panier métallique destiné à l'unité centrale de l'ordinateur (Caractéristique technique optionnelle).
  - ☐ Un câble d'extension destiné à permettre l'exploitation des ports USB 3 et USB 4 ou USB 5 et USB 6 (Caractéristique technique optionnelle).
2. Vérifier que le câble électrique relié au boîtier d'alimentation de l'unité centrale de l'ordinateur est déconnecté. Se relier à la terre grâce à un bracelet lié au poignet. A défaut de disposer d'un bracelet, maintenir un contact physique avec un objet lui-même relié à la terre, ou à une partie métallique du système comme la structure de l'unité centrale de l'ordinateur.
3. Fixer la carte mère dans l'unité centrale de l'ordinateur grâce aux vis fournies avec cette dernière lors de son achat.
4. S'assurer que la carte mère de la série QDI P8/333 est matériellement correctement configurée, pour cela vérifier que les cavaliers insérés sur les broches intégrées de cette dernière sont correctement positionnés. Dans ce but il est important de se référer à la section nommée « Configuration des cavaliers » du chapitre numéro 2 nommé « Instructions d'installation » contenu dans le manuel d'utilisation livré avec la carte mère de la série QDI P8/333 lors de son achat.



5. Connecter le processeur dans le socket intégré à la carte mère de la série QDI P8/333 et prévus à cet effet. Fixer le système de refroidissement de ce dernier et connecter son ventilateur sur les broches nommées « CPUFAN » intégrées à la carte mère de la série QDI P8/333 et prévus à cet effet.
6. Connecter les éventuelles barrettes de mémoire dans les slots intégrés à la carte mère de la série QDI P8/333 et prévus à cet effet.
7. Connecter les éventuelles cartes d'extension au format AGP, PCI dans les slots intégrés à la carte mère de la série QDI P8/333 et prévus à cet effet.
8. Connecter les éventuels périphériques IDE ainsi que le lecteur de disquette à la carte mère de la série QDI P8/333 grâce aux nappes fournies avec cette dernière lors de son achat. S'assurer que l'orientation des nappes connectées est correcte en vérifiant que le liseré rouge de ces dernières correspond à l'emplacement de la broche numéro 1 du connecteur.
9. Connecter les câbles de l'unité centrale de l'ordinateur sur les broches intégrées à la carte mère de la série QDI P8/333 et prévues à cet effet. Dans ce but il est important de se référer à la section nommée « Connecteurs externes » du chapitre numéro 2 nommé « Instructions d'installation » contenu dans le manuel d'utilisation livré avec la carte mère de la série QDI P8/333 lors de son achat.
10. Raccorder les périphériques externes sur les connecteurs de fond de panier intégrés à la carte mère de la série QDI P8/333. Dans ce but il est important de se référer à la section nommée « Connecteurs externes » du chapitre numéro 2 nommé « Instructions d'installation » contenu dans le manuel d'utilisation livré avec la carte mère de la série QDI P8/333 lors de son achat.
11. Lorsque tous les éléments du système sont correctement intégrés, il est possible de reconnecter le câble électrique au boîtier d'alimentation de l'unité centrale de l'ordinateur.





### Installation du système :

1. Démarrer le système en pressant l'interrupteur de fonctionnement de l'unité centrale de l'ordinateur.
2. Presser la touche "Suppr" du clavier afin d'entrer dans le menu de BIOS.
3. Dans le menu de BIOS nommé "QDI Innovation features", ajuster la fréquence de fonctionnement du processeur. Attention, il est fortement recommandé de charger les réglages de sûreté par défaut afin d'éviter un éventuel dysfonctionnement du système. Dans ce but il est important de se référer à la section nommée « Description du BIOS Award » du chapitre numéro 3 nommé « Description du BIOS » contenu dans le manuel d'utilisation livré avec la carte mère de la série QDI P8/333 lors de son achat.
4. Procéder à l'installation du système d'exploitation sur le lecteur de disque dur intégré au système. Dans ce but il est important de vérifier que la séquence de démarrage du système paramétrable à partir du menu de BIOS permet à la procédure d'installation du système d'exploitation de s'initialiser.
5. Une fois l'installation du système d'exploitation achevée, vérifier qu'il ne subsiste aucun conflit ou périphérique inconnu au sein du système.
6. Après cette étape, procéder à l'installation des pilotes de chaque périphérique détecté par la carte mère de la série QDI P8/333.

**Lors de son achat un CD-ROM d'installation QDI est livré avec la carte mère de la série QDI P8/333.**

#### 1. Driver Install :

Avec cette option, il est possible d'installer les pilotes de la carte mère de la série QDI P8/333 aisément. Il est important d'installer les pilotes en respectant l'ordre prédéfini et de redémarrer le système après avoir effectué l'installation de tous les pilotes.

Applications contenues dans le dossier :

- |                             |                            |
|-----------------------------|----------------------------|
| A. Chipset software         | B. IAA Setup               |
| C. VGA Driver               | D. USB2.0 Driver(optional) |
| E. Network Driver(optional) | F. Audio Driver(optional)  |
| G. DirecrX                  |                            |



**2. Accessory :**

Applications contenues dans le dossier :

- A. QflashV1.0.
- B. Norton AntiVirus 2002.

**3. Browse CD :**

Avec cette option, il est possible de consulter l'ensemble des données contenues sur le CD-ROM d'installation QDI

Applications contenues dans le dossier :

- A. Awdflash.exe.
- B. Cblog.exe.
- C. Lf.exe.





## QDI P8/333 installazione mainboard (Italian):

1. Assicurarsi che la scatola sia completa: QDI P8/333mainboard, cavo IDE e Floppy, jumpers, manuale dell'utente della mainboard QDI P8/333 e cd-rom drivers.
2. Controllare che il cavo alimentazione proveniente dal computer-case sia sconnesso assicurarsi inoltre di aver indossato correttamente il bracciale da polso collegato a massa. In mancanza di questo toccare un punto a massa o una parte metallica del case
3. Fissare la mainboard nel case con le speciali viti fornite con il computer-case
4. I jumper locati sulla mainboard rappresentano: CLR\_CMOS azzeratore BIOS, BIOS\_WP abilitatore/disabilitatore in BIOS della funzione protectEasy; per tutti i jumper il PIN 1 e' contrassegnato da una spessa linea bianca (consultare il manuale al capitolo 2 " JUMPER AND SETTINGS")
5. Inserire il processore nell'apposito slot ; la ventola del processore deve essere collegato nello speciale connettore targato " CPUFAN ".
6. Inserire il modulo/i di memoria nell'apposito memory slots
7. Inserire le periferiche Pci negli appositi Pci slots
8. Collegare le periferiche IDE e il FLOPPY con l'apposito cavo fornito con la mainboard negli specifici connettori marcati. Assicurarsi che l'orientamento del cavo sia corretto. ( La linea rossa sul cavo deve essere inserita nell'apposito connettore in corrispondenza del pin 1)
9. Connettere la mainboard con: il cavo di alimentazione proveniente dall'alimentatore, il connettore dell'interruttore di stand by, il connettore del led di segnalazione "acceso", il connettore led di funzionalita' HARD DISK, il connettore dello speaker interno al CASE..... (consultare il manuale capitolo 2. " EXTERNAL CONNECTORS ". Dopo chiudere il CASE)
10. Connettere le differenti periferiche esterne come il PS/2 mouse, la PS/2 tastiera, le prese USB, il monitor e la stampante con gli specifici connettori posizionati sulla faccia esterna della mainboard.
11. Quando la vostra configurazione sara' tutta connessa, agganciare il cavo di alimentazione.



### Installazione di sistema

1. Portare in posizione di acceso l'interuttore di ACCESO
2. Usare il tasto DEL per entrare nel software di configurazione del BIOS
3. Regolare le funzioni del BIOS in accordo con la configurazione di sistema ( Noi ti raccomandiamo di usare l'impostazione di default per evitare rischi di anomalie di funzionalità). Per maggiori informazioni controllare il capitolo 3, sezione "BIOS DESCRIPTION". Premere F10 sulla tastiera o scegliere "SAVE and EXIT" dal menu di BIOS per salvare le impostazioni scelte ed uscire dal BIOS program.
4. Installare il sistema operativo , non dimenticando di mettere nelle giuste condizioni di partenza la sequenza di boot.
5. Dopo una giusta installazione accertarsi che non vi siano conflitti tra le periferiche in uso
6. Dopo questo ultimo passo procedere all'installazione dei driver delle varie periferiche

### IL CD CONTENENTE I DRIVER DELLA VOSTRA MAINBOARD QDI E'CONTENUTO NELLA SCATOLA

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#### 1. Installazione driver

E' possibile installare tutti i driver della Vs. mainboard in modo facile e veloce. Dovreste installare i driver nella seguente successione, finito cio' bisogna far ripartire il personal computer.

- |                             |                            |
|-----------------------------|----------------------------|
| A. Chipset software         | B. IAA Setup               |
| C. VGA Driver               | D. USB2.0 Driver(optional) |
| E. Network Driver(optional) | F. Audio Driver(optional)  |
| G. DirecrX                  |                            |
|                             |                            |
| A. QflashV1.0               |                            |
| B. Norton AntiVirus2002     |                            |





### 3. Guardando il CD

Questo manuale di installazione è disponibile anche nella sua versione elettronica all'interno del cd accompagnativo, insieme anche diverse utili quali:

- A. Awdflash.exe
- B. Cblog.exe
- C. Lf.exe



## Using 4/6-Channel Audio

The motherboard is equipped with Realtek ALC650 chip, which provides support for 6-channel audio output, including 2 Front, 2 Rear, 1 Center and 1 Subwoofer channel. ALC650 allows the board to attach 4 or 6 speakers for better surround sound effect. The section will tell you how to install and use 4/6-channel audio function on the board.

### Installing the Audio Driver

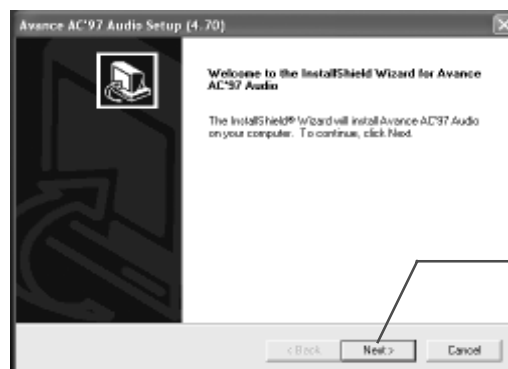
You need to install the driver for Realtek ALC650 chip to function properly before you can get access to 4-/6-channel audio operations. Follow the procedures described below to install the drivers for different operating systems.

#### Installation for Windows 98SE/ME/2000/XP

The following illustrations are based on Windows ® XP environment and could look slightly different if you install the drivers in different operating systems.

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1. Insert the companion CD into the CD-ROM drive. The setup screen will automatically appear.
2. Select the Sound Driver.
3. Click **Next** to start installing files into the system.



click here



4. Click **Finish** to restart the system.



## Attaching speakers

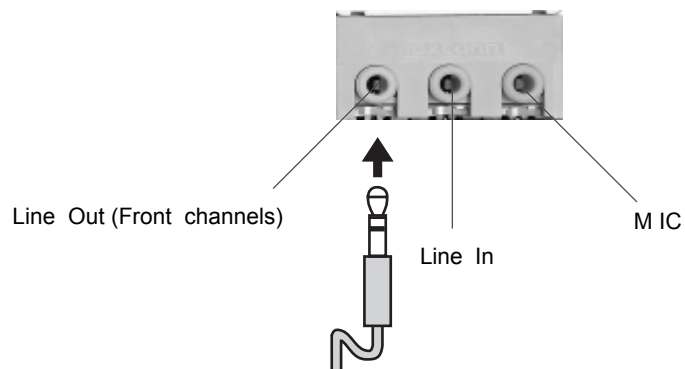
To perform multichannel audio operation, connect multiple speakers to the system. You should connect the same number of speakers as the audio channels you will select in the software utility.

## 2-Channel Analog Audio Output

The audio connectors on the back panel already provide 2-channel analog audio output function. The back panel's audio connectors can be transformed to 4/6-channel analog audio connectors automatically when you select correct setting in the software utility. For information about the setting, refer to Selecting 4- or 6-Channel Setting later in the section.

Make sure all speakers are connected to Line Out connectors. Diverse connector configurations for 2-, 4- and 6-channel using back panel connectors are described below:



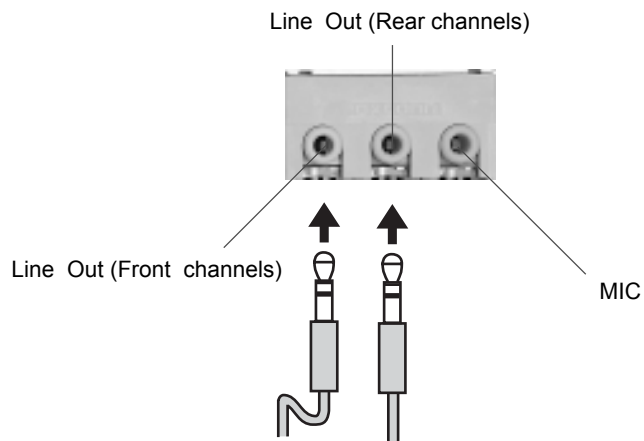


### Description:

Line Out, Line In and MIC functions all exist under 2-channel configuration.

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### 4-Channel Analog Audio Output



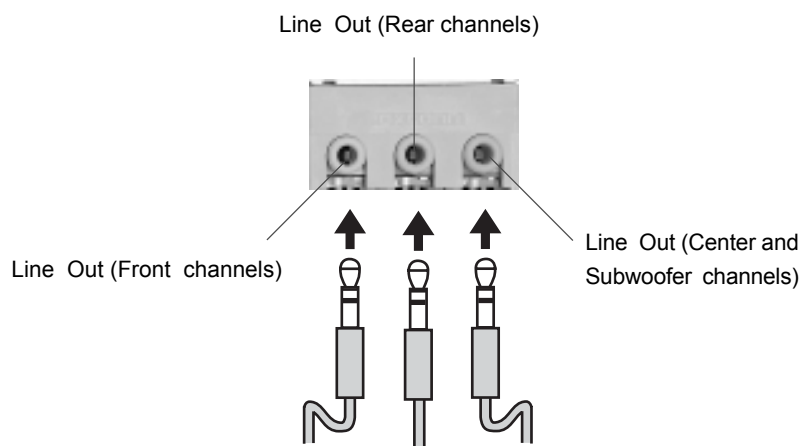
### Description:

Line In is converted to Line Out function under 4-channel configuration.





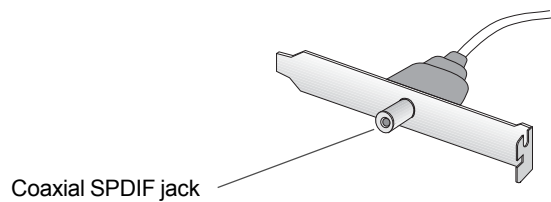
## 6-Channel Analog Audio Output



### Description:

Both Line In and MIC are converted to Line Out function under 6-channel configuration.

## Digital Audio Output




### Description:

Connnet the SPDIF speakers to the Coaxial SPDIF jack.



## Selecting 4- or 6-Channel Setting

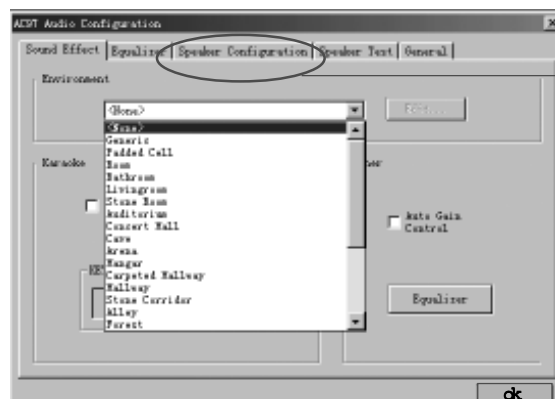
1. Click the audio icon  from the window tray at the bottom of the screen.
2. Select any surround sound effect you prefer from the “Environment” pull-down menu under the **Sound Effect** tab.



Click here and the pull-down menu will appear

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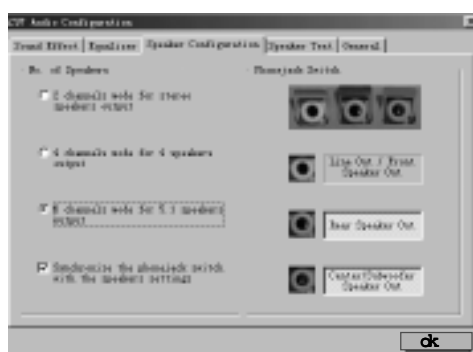
3. Click the **Speaker Configuration** tab.



Click here



4. The following window appears.




5. Select the multi-channel operation you prefer from **No. of Speakers**.
6. Click **OK**

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### ***Testing the Connected Speakers***

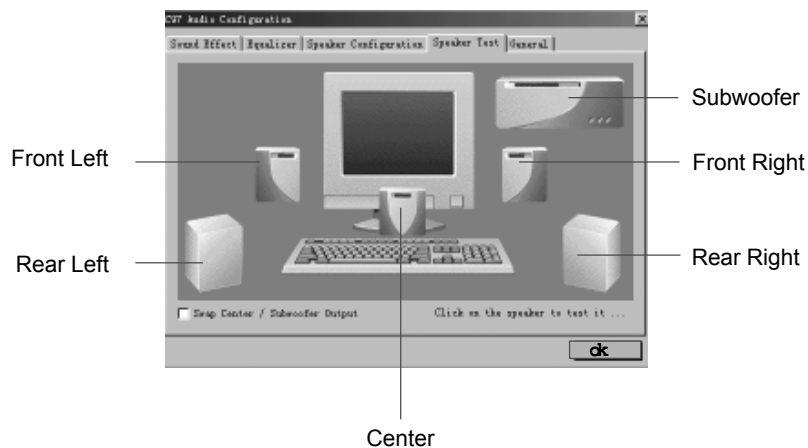
To ensure 4- or 6-channel audio operation works properly, you may need to test each connected speaker to make sure every speaker work properly. If any speaker fails to sound, then check whether the cable is inserted firmly to the connector or replace the bad speakers with good ones.

### **Testing Each Speaker**

1. Click the audio icon  from the window tray at the bottom of the screen.
2. Click the **Speaker Test** tab.



- The following window appears.




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- Select the speaker which you want to test by clicking on it.

### Playing KaraOK

The KaraOK function will automatically remove human voice (lyrics) and leave melody for you to sing the song. **The function is applied only for 2-channel audio operation**, so make sure "2 channels mode" is selected in the "No. of Speakers" column before playing KaraOK.

### Playing KaraOK

- Click the audio icon  from the window tray at the bottom of the screen.
- Make sure the **Sound Effect** tab is selected.





3. Select **Voice Cancellation** in the “KaraOK” column.



4. Click **OK**.



# **Mainboard Layout**

## **P8/333**

**Note:**  
The layout includes all options.  
It is for your reference only.