



Item Checklist

This item checklist is only available for retail market. Completely check your package, If you discover damaged or missing items, contact your retailer.

- K8N4/K8N4U series mainboard
- QDI Utility CD
- 1HD ribbon cable
- User's manual
- I/O shield(option)
- USB cable(option)



Notice

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If you need any further information, please visit our web-site: "www.qdigrp.com".

Certificate of Compliance



The following products have been tested by us with the listed standards and found in compliance with the council EMC directive 89/336/EEC. It is demonstrative for the compliance with this EMC Directive.

Submittor: QDI Technology Limited
23Floor, Lincoln House, Taikoo Place 979 King's
Road, Quarry Bay, HONG KONG

Product: MotherBoard
M/N: K8N4/K8N4U

- EN 55022/A1:2000 Limits and methods of measurements of radio disturbance characteristics of information technology equipment
- EN 61000-3-2/A14:2000 Electromagnetic compatibility(EMC)
Part 3: Limits
Section 2: Limits for harmonic current emissions (equipment input current \leq 16A per phase)
- EN 61000-3-3/A1:2001 Electromagnetic compatibility(EMC)
Part 3: Limits
Section 3: Limits of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current \leq 16A
- EN 55024/A1:2001 Information technology equipment-Immunity characteristics limits and methods of measurement

Signature : Wan Changqing Date : 2005.01.01

Printed Name : Wan changqing Position: General Manager

The statement is based on a single evaluation of one sample of above mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab.logo.

Declaration of conformity



Trade Name: QDI Computer (U . S . A .) Inc.
Model Name: **K8N4/K8N4U**
Responsible Party: QDI Computer (U. S. A.) Inc.
Address: 41456 Christy Street
Fremont, CA 94538
Telephone: (510) 668-4933
Facsimile: (510) 668-4966

Equipment Classification: FCC Class B Subassembly
Type of Product: Mainboard
Manufacturer: QDI TECHNOLOGY (HK) Inc.
Address: 23Floor, Lincoln House, Taikoo Place
979 King's Road, Quarry Bay, HONG
KONG

Supplementary Information:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Tested to comply with FCC standards.

Signature : Wan Changqing

Date : 2005

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Caution

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



Caution

Be sure to add some Silicone Grease between the CPU and the heatsink to keep them fully contacted to meet the heat sink requirement.



Note:

This manual is suitable for K8N4/K8N4U series of mainboards. Each mainboard is carefully designed for the PC user who wants different features.

K8N4: nFORCE4-4X Chipset

K8N4U: nFORCE4-Ultra Chipset

-6A: With 6 channel Audio

-8A: With 8 channel Audio

-L: With onboard 10/100M LAN

-F: With IEEE 1394 port

-K: With onboard 1000M LAN

Chapter 1



Introduction

K8N4/K8N4U series of mainboards utilize nFORCE4- 4X / nFORCE4-Ultra chipset, providing a fully compatible, high performance and cost-effective ATX platform. The new integrated technologies, together with AC'97 audio, 10 USB 2.0, 4 SATA, and ATA133/100/66/33, give customers an advanced, multimedia solution at reasonable price. It provides HyperTransport™ technology to support AMD Socket 939 processors and the DDR266/333/400 memory. Suspending to RAM, the optimal implementation of the Advanced Configuration and Power Interface makes the PC's power consumption drop to the lowest possible level and enable quick wakeup.



Form factor

- ATX form factor of 305mm x 244mm

Microprocessor

- Supports AMD Socket 939 CPU
- Supports HyperTransport™ technology

System memory

- Supports DDR266/333/400 SDRAM
- Supports 128Mb/256Mb/512Mb/1Gb technology up to 4GB
- Provides four 184-pin DDR SDRAM interfaces

PCI Express x16 Graphics

- PCI Express 1.0a specification compliant
- Supports one PCI Express x16 port

PCI Express x1 Ports(optional)

- PCI Express 1.0a specification compliant
- Supports two PCI Express x1 ports

Onboard IDE

- Supports Independent timing of up to 4 drives
- Supports Ultra ATA 33/66/100/133
- Two fast IDE interfaces supporting four IDE devices

Onboard LAN(optional)

- 10/100(available on -L mainboard)/1000(available on -K mainboard) Mbit/sec Ethernet support
- 10/100(available on -L mainboard)/1000M(available on -K mainboard) LAN interface built-in on board

USB 2.0

- USB 2.0 compliant, operates at 480Mbps, about 40X times faster than USB 1.1
- Provides 10 USB 2.0 ports

Onboard I/O

- One floppy port supporting up to one 3.5" floppy drives with 1.44M format
- One high speed 16550 compatible COM with 16 byte send/receive FIFO
- 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

- AC'97 2.3 Specification Compliant
- Provides onboard Line-in Jack, Microphone-in Jack and Speaker-out Jack Connector

6-channel Onboard Audio(available on -6A mainboard)

- Provides Front left&right, Rear left&right/Line-in Jack and Center&Woofer/Microphone-in Jack,which can be specified by software

8-channel Onboard Audio(available on -8A mainboard)

- Provides side speaker out, front speaker out, mic in, rear speaker out, center&subwoofer speaker out



Advanced features

- PCI 2.3 Specification Compliant
- Supports Windows 98/2000/ME/XP soft-off

Onboard SATA

- Four SATA devices including SATA HDD device
- Supports 150MBps(nFORCE4-4X chipset) transfer rate.
- Supports 300MBps(nFORCE4-Ultra chipset) transfer rate.

BIOS

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

IEEE 1394 Port(Optional)

- Supports two IEEE 1394a port

Green function(optional)

- 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(4)	PCI slots
IDE(2)	IDE ports
FLOPPY(1)	Floppy Drive port
DDR(4)	DIMMsocket
USB(10)	USB connectors
LAN(1)	LAN connector
COM(1) (optional)	COM connector
PARALLEL(1)	Parallel connector
IrDA(1)	IrDA connector
IEEE1394(2)(optional)	IEEE 1394 connectors
SATA(4)	Serial ATA connectors



Chapter 2



Installation Instructions

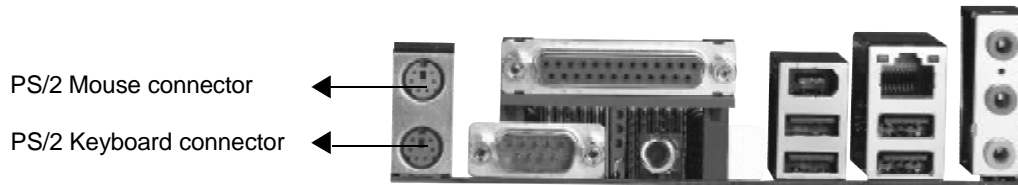
This section covers External Connectors and Jumper Settings. Refer to the mainboard layout chart for locations of all jumpers, external connectors, slots and I/O ports. Furthermore, this section lists all necessary connector pin assignments for your reference. The particular state of the jumpers, connectors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



External Connectors

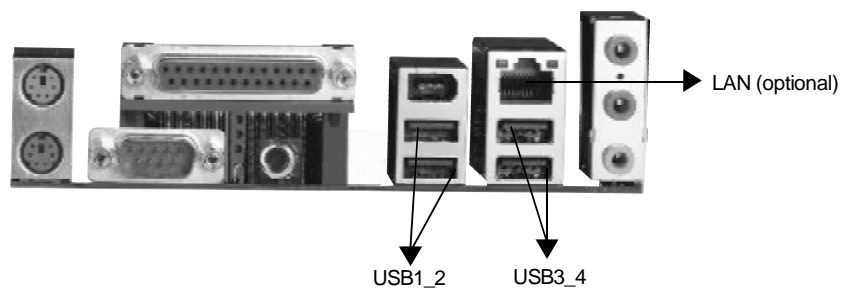
PS/2 Keyboard/Mouse Connector

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.



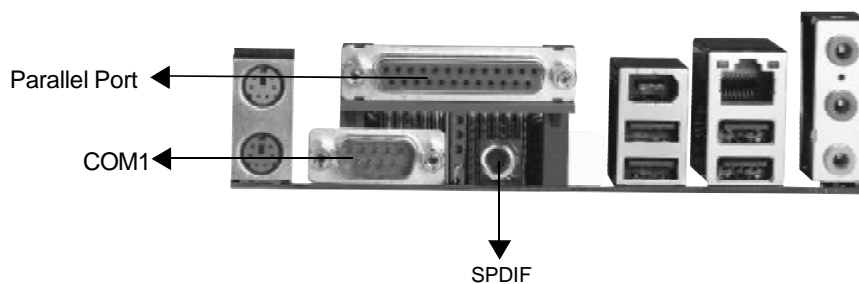
USB1, USB2, USB3, USB4 and LAN Connectors(optional)

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



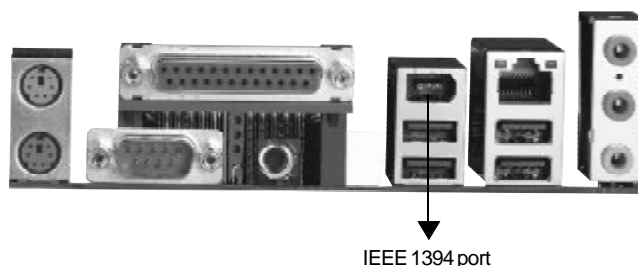
Parallel Port , Serial Port Connectors (COM1) and SPDIF Connector

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 S/PDIF (Sony / Philips Digital Interface) input allow your digital audio input from digital audio devices (optional). The S/PDIF output is capable of providing digital audio data or compressed AC3 data to an external Dolby digital decoder.



IEEE 1394 Port (optional)

The IEEE 1394 port is for connecting IEEE 1394 device.



Line-in jack, Microphone-in jack and Speaker-out jack

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.



6-Channel Audio(available on -6A mainboard)

This mainboard utilizes ALC655 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.

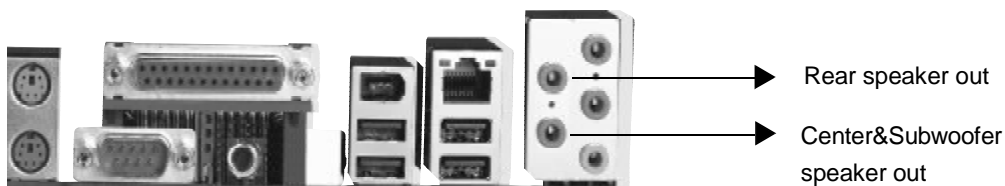
Microphone function is offered by F_AUDIO Connector on the mainboard now.

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.

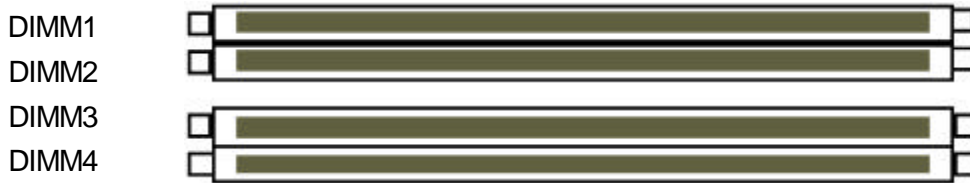


8-Channel Audio(available on -8A mainboard)

This mainboard utilizes ALC850 chip providing 8-channel Audio, which consists of side speaker out, front speaker out, mic in, rear speaker out, center&subwoofer speaker out for a complete surround sound effect.

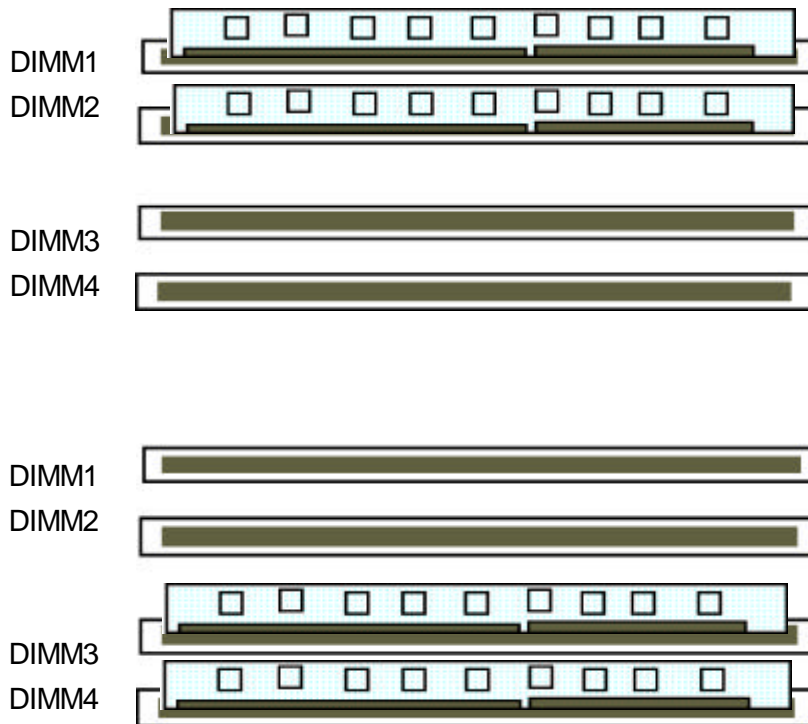


Dual channel introduce



To using dual channel DDR, DIMM1/DIMM2 is a combination, DIMM3/DIMM4 is the other combination. The following figure illustrates the dual channel DDR installation:

1. two same memory



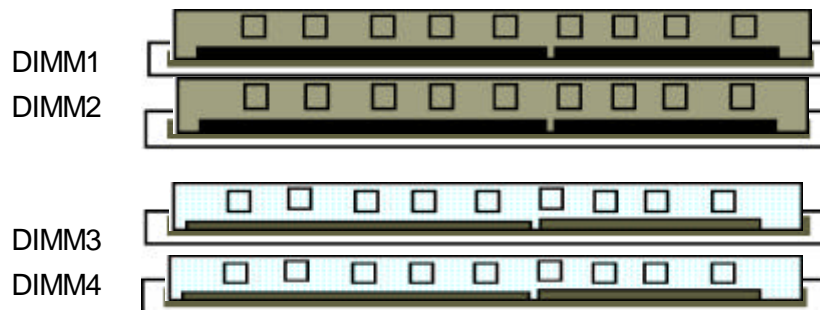
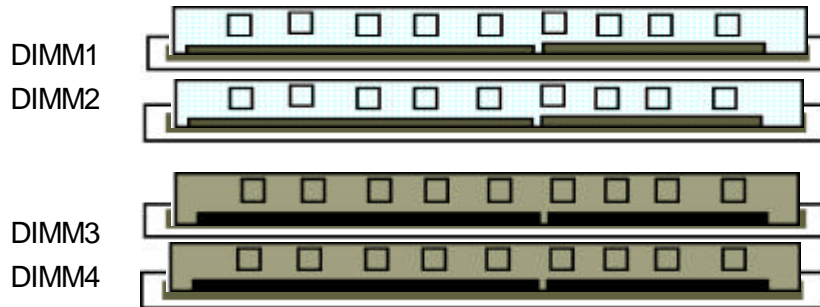
Note:

If you use one memory, please insert it in DIMM1 or DIMM3.



Installation Instructions

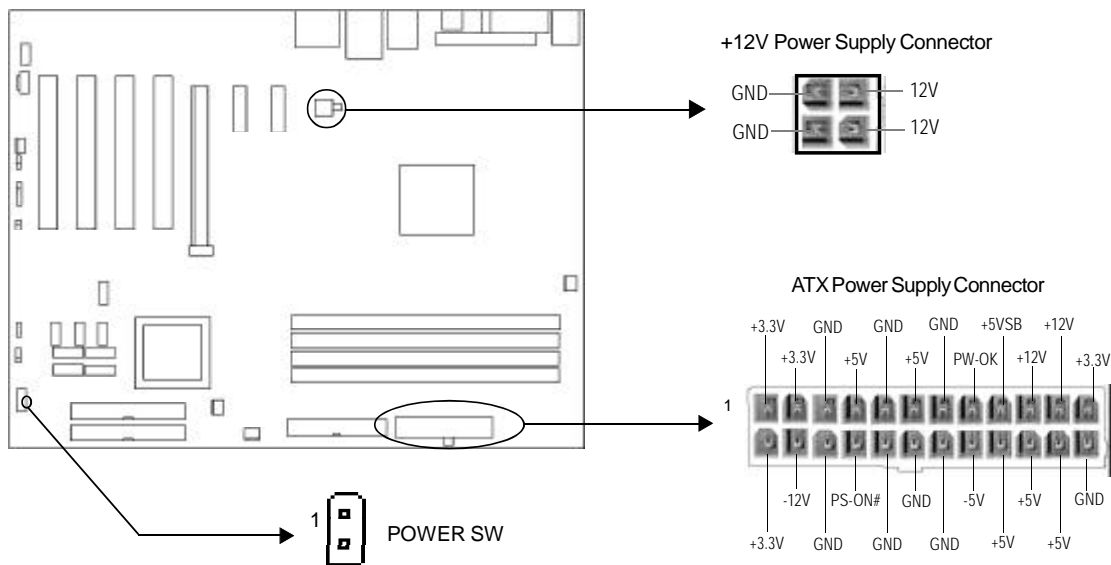
2. four same memory



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. K8N4/K8N4U series mainboard only support ATX12V power.

Note: please pay attention to orientation and sequence of pins when using 20 pins ATX power supply connector



Note: If you change “Soft-off by PBTN” 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)

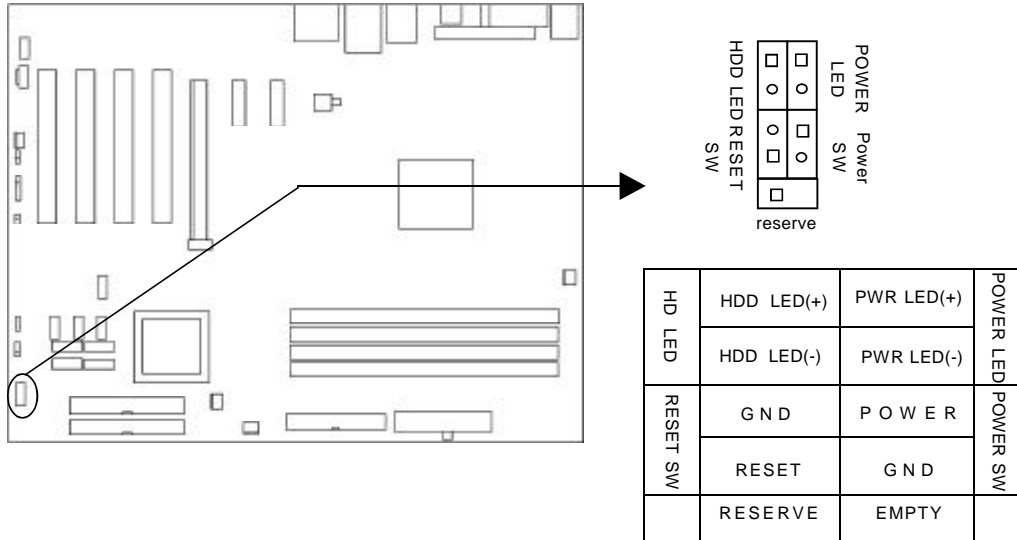
The connector connects to the case's reset switch. Press the switch once, the system resets.



Installation Instructions

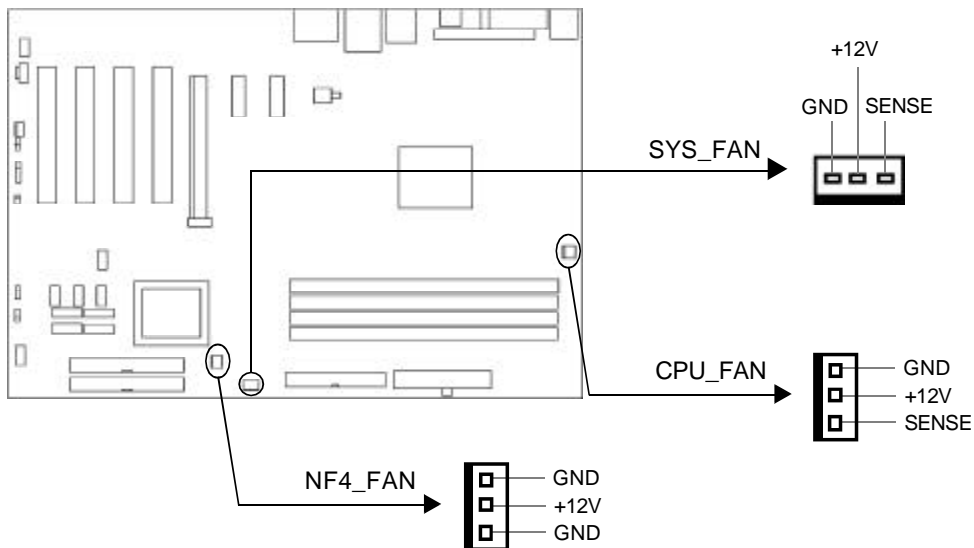
Power LED Connector (PWR_LED)

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



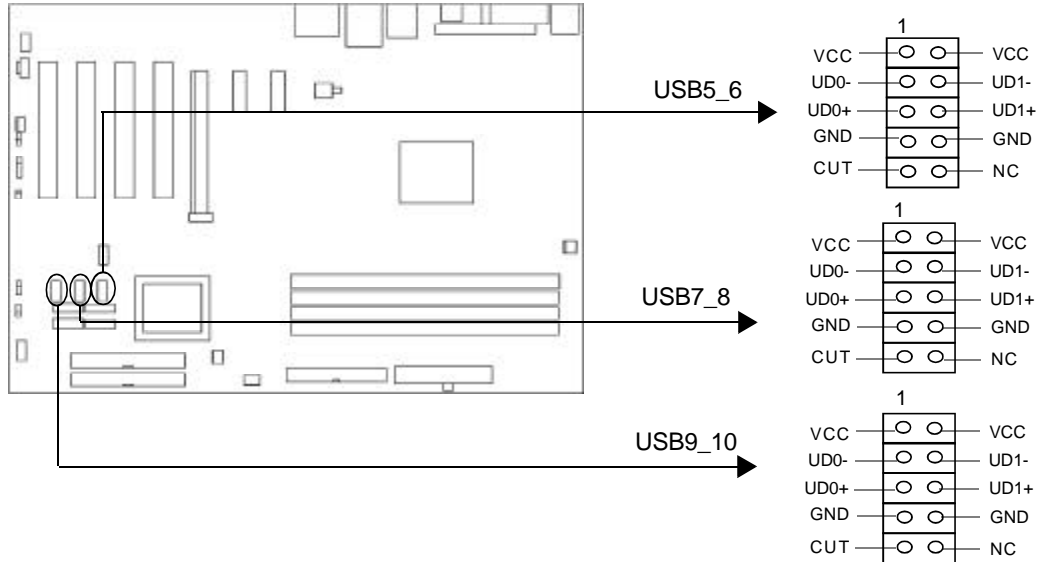
Fan Connectors (CPU_FAN, SYS_FAN and NF4_FAN)

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



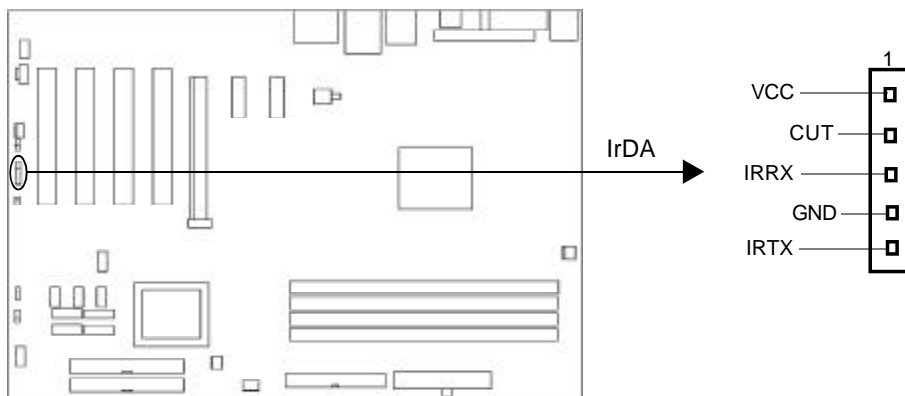
USB5_6; USB7_8; USB9_10

Besides USB1,2,3,4 on the back panel, K8N4/K8N4U series of mainboards also have three 10-pin headers on board which may connect to front panel USB cable(optional) to provide additional six USB ports.



Infrared Header (IrDA)

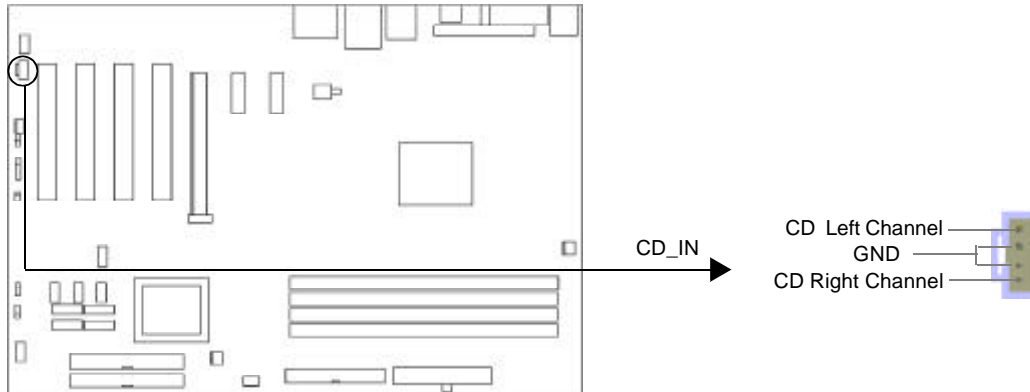
This connector supports wireless transmitting and receiving device. Before using this function, configure the settings for IR Address, IR Mode and IR IRQ from the “INTEGRATED PERIPHERALS” section of the CMOS SETUP.



Installation Instructions

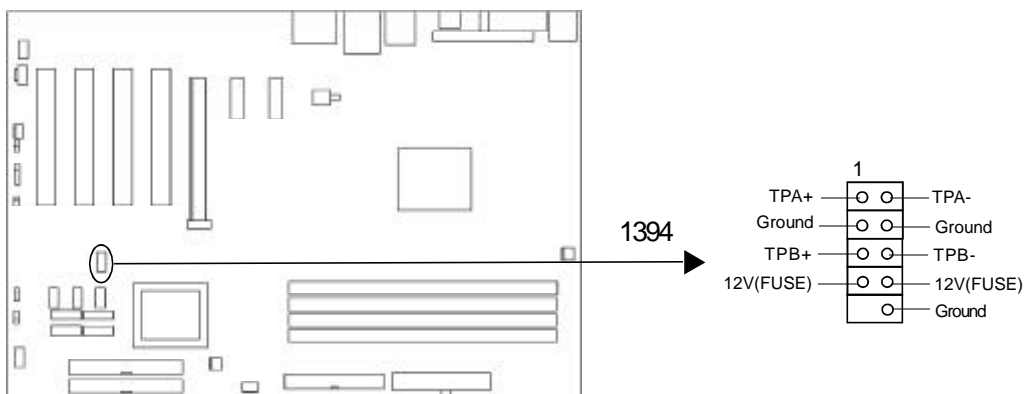
Audio Connectors (CD_IN)(optional)

CD_IN is Sony standard CD audio connector, it can be connected to a CD-ROM drive through a CD audio cable.



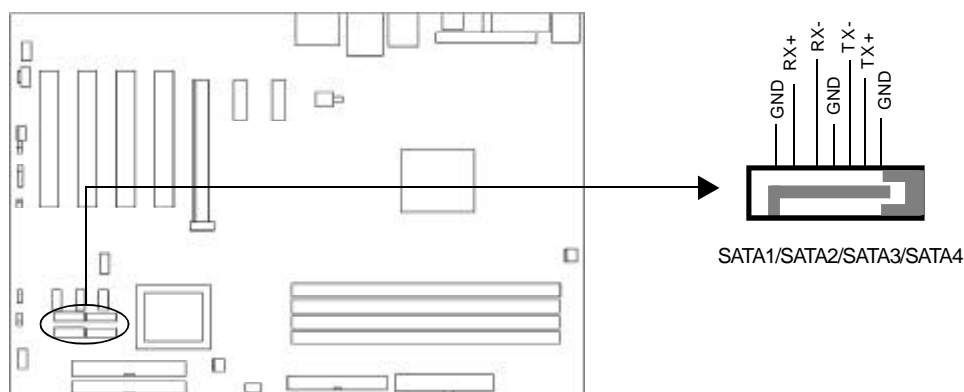
Front IEEE 1394 port(1394)(optional)

Besides one 1394 port on the back panel, the mainboard also have one 10-pin headers on board to provide additional IEEE 1394 port.



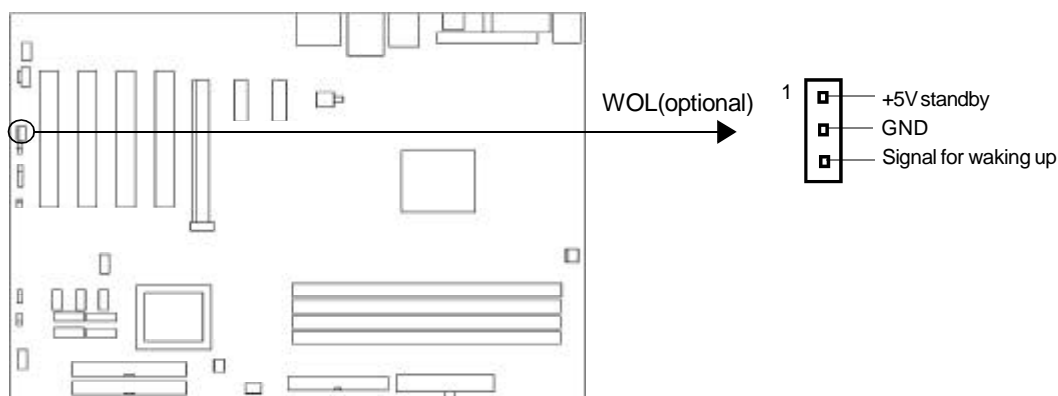
Onboard SATA(SATA1, SATA2, SATA3, SATA4)

The mainboard provides four Serial ATA connectors, SATA is a storage interface that is compliant with SATA 1.0 Specification. With speed of up to 150Mbps. you can connect Serial ATA cable to Serial ATA hard disk.



Wake-Up On LAN (WOL)(optional)

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 ATX 12V 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 “WOL(PME#) From Soft-off” 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.



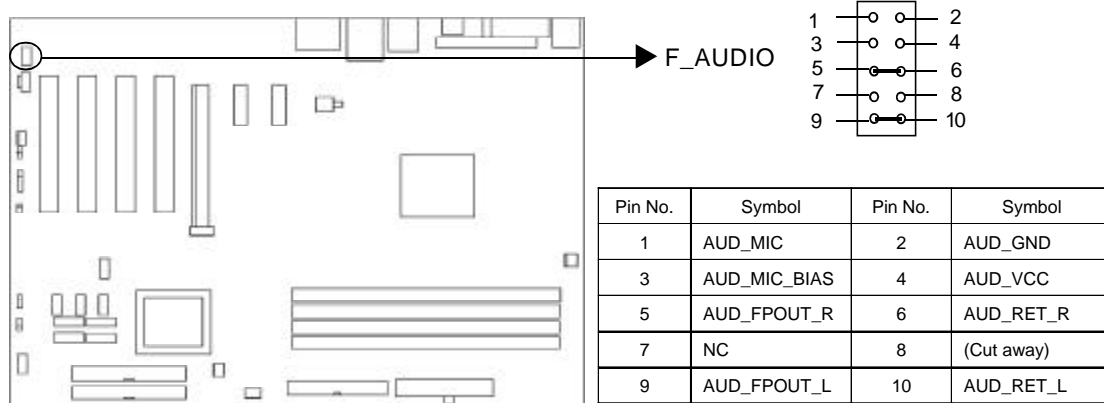
Wake-Up On Internal Modem (WOM)(optional)

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 “WOR(RI#) From Soft-off” 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 Interface(F_AUDIO)(Optional)

The audio interface provides two kinds of audio output choices: the FrontAudio and the RearAudio. Their priority level is as sequence. When the FrontAudio is available, the RearAudio(in-case speakers) will be cut off. An onboard amplifier is provided for the earphone. When the FrontAudio is absent, Pin5 and Pin6, Pin9and Pin10 must be short connected, otherwise the Rear output has no signal.



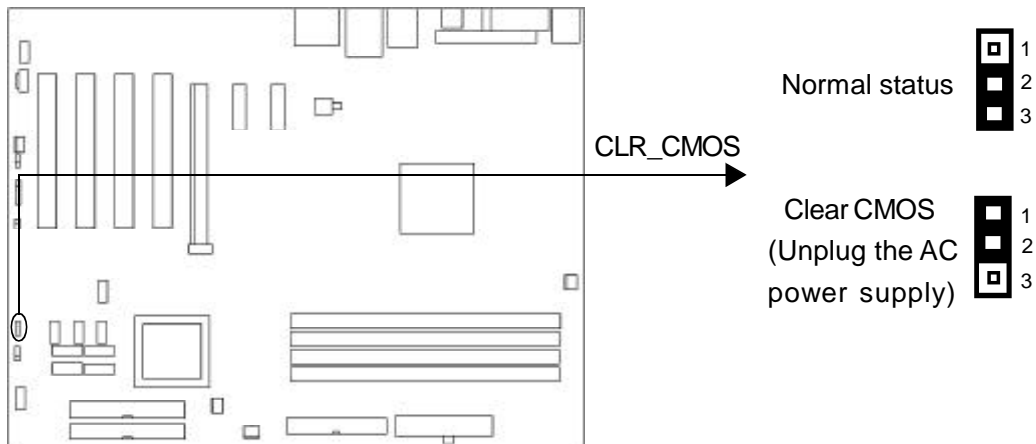
Jumper Settings

Jumpers are located on the mainboard, the clear CMOS jumper JCC, enable keyboard password power-on function jumper 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
		1-2	set pin1 and pin2 closed
		2-3	set pin2 and pin3 closed
		close	set the pins closed
		open	set the pins opened

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.



BIOS-Protection Jumper (BIOS_WP)

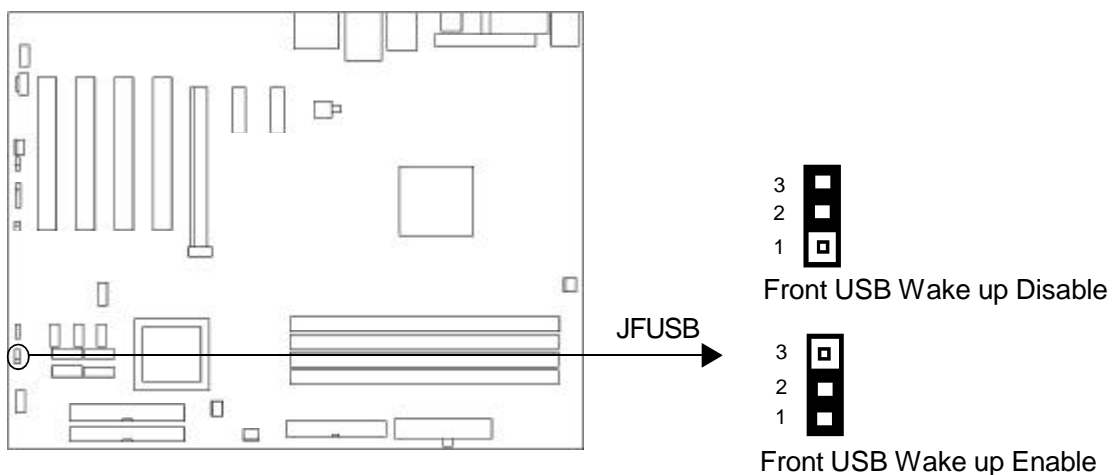
If the jumper BIOS_WP is set as closed, the system BIOS is protected from being attacked by serious virus such as CIH virus, you will be unable to flash the BIOS to the mainboard in this status.



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.

Enable Front Panel USB Device Wake-up Function (JFUSB)(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 with pin1 & pin2 closed. Otherwise, set JFUSB with pin2 & pin3 closed for disabling. Furthermore, the item “USB Resume from S3” in Power Management Setup should also be set correspondingly to enable or disable this function.



Chapter 3



BIOS Description

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 even if the power is turned off. This chapter provides you with the overview of the BIOS Setup.



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 "BIOS 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>=8.60aq) from the directory \Utility located on QDI Utility 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 mainboard.
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:

1. We are only introduce basic BIOS . You can see the detailed BIOS after press<Ctrl> +F1.
 2. Because the BIOS Software will be pdated 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 key to enter the AWARD BIOS CMOS Setup Utility.

Press to enter SETUP

When you have entered, the Main Menu 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.



Main Menu

Standard CMOS Features Setup

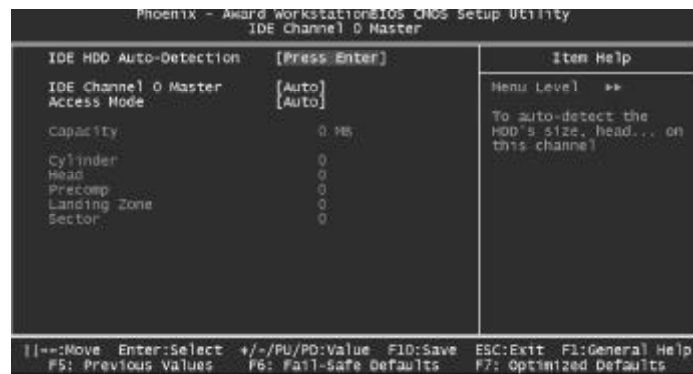
The basic CMOS settings included in “Standard CMOS Features” are Date, Time, Hard Disk Drive Types, Floppy Disk Drive Types etc. Use the arrow keys to highlight the item, then use the <PgUp> or <PgDn> keys to select the value desired in each item.



Standard CMOS Features Menu

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





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

QDI Innovation Features

This section describes QDI innovation EASY technology.

Advanced BIOS Features

This section allows you to configure your system for basic operation. You have the opportunity to select the system's default speed, boot-up sequence, keyboard operation, shadowing and security.

Power Management Setup

The power management setup menu allows you to configure system to most save energy while operating in a manner consistent with your own style of computer use.

Integrated Peripherals

The integrated peripherals setup allows user to configure the onboard IDE controller, floppy disk controller, the printer port and the serial ports etc..

PC Health Status

The PC health status display CPU and case fan speed.



Set Supervisor/User Password

Changes, sets, or disables password. It allows you to limit access to the system and the setup program. 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

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.

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.

Save & Exit Setup

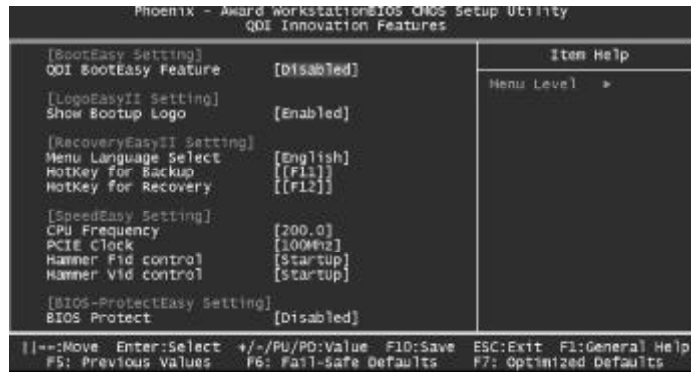
Saves value changes to CMOS and exits setup.

Exit Without Saving

Abandons all CMOS value changes and exits setup.



QDI Innovation Features



QDI Innovation Features Menu

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

<u>Item</u>	<u>Option</u>	<u>Description</u>
[BootEasy Setting]		
● QDI BootEasy feature	<i>Enabled</i>	PC boot in rapid speed, without any redundant feature waiting for the displaying of starting OS.
	<i>Disabled</i>	PC boot in the legacy BIOS way.
[LogoEasyII Setting]		
● Show Bootup Logo	<i>Enabled</i>	The EPA logo can be shown when system boots show up.
	<i>Disabled</i>	Close this function.
[RecoveryEasyII Setting]		
● Menu language Select	<i>English</i> <i>Chinese</i>	Select RecoveryEasyII Interface Menu language.
● Hotkey for Backup/Recovery	<i>NULL</i> <i>[F2]~[F12]</i>	Backup/Recovery interface can not be used by Pressing Hotkey. Select Hotkey to enter Backup/Recovery interface during POST.
[SpeedEasy Setting]		
● CPU Frequency	<i>200</i> <i>450</i>	Set CPU frequency.
● PCIE Clock	<i>100Mhz</i> <i>145Mhz</i>	Set PCIE clock.



- Hammer Fid Control

<i>startup</i>	Set CPU ratio frequency.
<i>x4 800Mhz</i>	
<i>x5 1000Mhz</i>	
<i>x6 1200Mhz</i>	
<i>x7 1400Mhz</i>	
<i>x8 1600Mhz</i>	
<i>... ..</i>	
 - Hammer Vid Control

<i>startup</i>	Set CPU voltage.
<i>1.550V</i>	
<i>... ..</i>	
<i>0.825V</i>	
- [BIOS-ProtectEasy Setting]**
- BIOS Protect

<i>Enabled</i>	This option is for protecting the system BIOS, when enabled, writing to BIOS area is to be discarded.
<i>Disabled</i>	

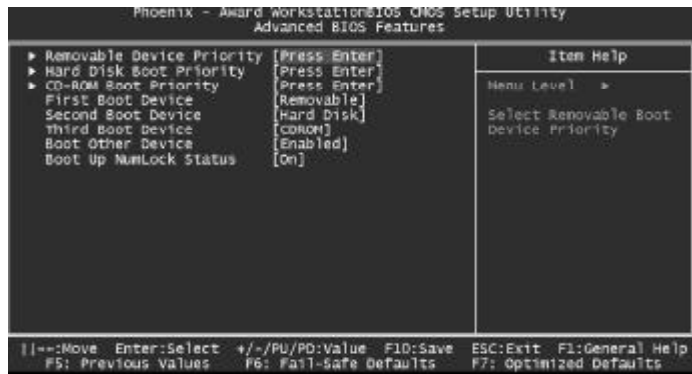


Warning:

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



Advanced BIOS Features



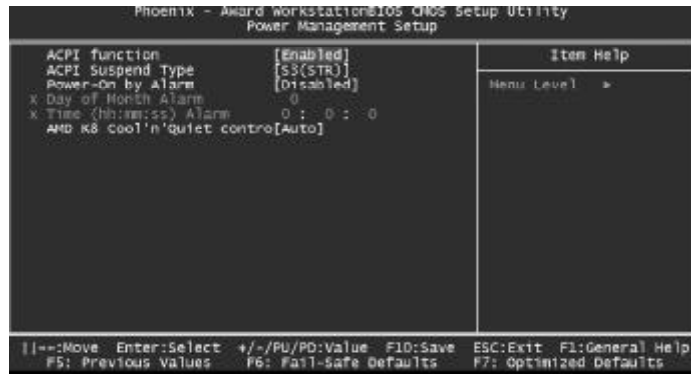
Advanced BIOS Features Menu

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

<u>Item</u>	<u>Option</u>	<u>Description</u>
• Removable Device Priority	<i>Press Enter</i>	Enter to set removable device priority.
• Hard Disk Boot Priority	<i>Press Enter</i>	Enter to set hard disk boot priority.
• CD-ROM Boot Priority	<i>Press Enter</i>	Enter to set CDROM boot priority.
• First(Second, Third) Boot Device	<i>Disabled</i> <i>Removable</i> <i>Legacy LAN</i>	Select your boot device priority, It could be removable, Hard disk, CDROM, legacy LAN, NVIDIA Boot Age, Disabled.
• Boot other Device	<i>Enabled</i> <i>Disabled</i>	Boot other device. Invalidate this feature.
• Boot Up Numlock Status	<i>On</i> <i>Off</i>	Select power on state for numlock.



Power Management Setup



Power Management Setup Menu

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

<u>Item</u>	<u>Option</u>	<u>Description</u>
● ACPI function	<i>Enabled</i> <i>Disabled</i>	Enable ACPI function. Disable this function.
● ACPI Suspend Type	<i>S1(POS)</i> <i>S3(STR)</i> <i>S1&S3</i>	Select the ACPI suspend type.
● Power-on by Alarm	<i>Enabled</i> <i>Disabled</i>	Enable power on by alarm. Disable this function.
● AMD K8 Cool'n' Quiet control	<i>Auto</i> <i>Disabled</i>	the system support this function automatically. Disable this function.



Integrated Peripherals



Integrated Peripherals Menu

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

<u>Item</u>	<u>Option</u>	<u>Description</u>
• IDE Function Setup	<i>Press Enter</i>	Press enter to set On-Chip IDE device.
• OnChip IDE Channel0	<i>Enabled</i> <i>Disabled</i>	Enable onchip IDE channel0. Invalidate this feature.
• Primary/Secondary Master/Slave PIO	<i>Mode 0 - 4</i> <i>Auto</i>	Define the IDE primary master/slave PIO mode. The IDE PIO mode is defined by auto-detection.
• OnChip IDE Channel1	<i>Enabled</i> <i>Disabled</i>	Enable onchip IDE channel1. Invalidate this feature.
• 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.
• IDE DMA transfer access	<i>Enabled</i> <i>Disabled</i>	Enable IDE DMA transfer access. Invalidate IDE DMA transfer access.
• Serial-ATA 1	<i>Enabled</i> <i>Disabled</i>	Enable onchip SATA 1. Invalidate this feature.
• Serial-ATA 2	<i>Enabled</i> <i>Disabled</i>	Enable onchip SATA 2. Invalidate this feature.
• IDE Prefetch Mode	<i>Enabled</i> <i>Disabled</i>	Enable IDE prefetch mode. Invalidate this feature.



Chapter 3

● RAID Config	<i>Press Enter</i>	Press enter to set RAID device.
● OnChip USB	<i>V1.1+V2.0 V1.1 Disabled</i>	Support onchip USB V1.1 and USB V2.0. Support USB V1.1 only. Invalidate all USB onboard.
● USB Keyboard Support	<i>Enabled Disabled</i>	Support USB keyboard under legacy OS. Disabel this function.
● USB Mouse Support	<i>Enabled Disabled</i>	Support USB mouse under legacy OS. Disabel this function.
● AC97 Audio	<i>Auto Disabled</i>	If audio codec was installed on board, the AC97 audio function can be used. Otherwise, the function is disabled. Disable AC97 audio onboard.
● MAC Lan	<i>Auto Disabled</i>	If LAN codec was installed on board,the MAC LAN function can be used. Invalidate this feature.
● IDE HDD Block Mode	<i>Enabled Disabled</i>	Allow IDE HDD to read/write several sectors once. IDE HDD only reads/writes a sector once.
● Power On Function	<i>Password Hotkey Mouse move Mouse click Anykey Button only keyboard 98</i>	Power on with keyboard password. Power on with hotkey. Power on with mouse move. Power on with mouse click. Power on with anykey. Power on by power button. Power on with keyboard 98.
● KB Power ON Password	<i>Enter</i>	Enter keyboard password.
● Hot key Power On	<i>Ctrl-F1 Ctrl-F12</i>	Define hot key.
● Onboard FDC Controller	<i>Enabled Disabled</i>	Onboard floppy disk controller is enabled. Onboard floppy disk controller is disabled.
● Onboard Serial Port 1/2	<i>3F8/IRQ4 2F8/IRQ3 3E8/IRQ4 2E8/IRQ3 Auto 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.

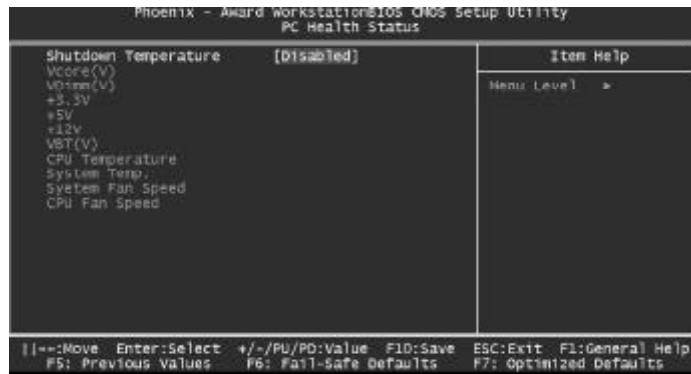


BIOS Description

• UART Mode Select	<i>Normal</i> <i>IrDA</i> <i>ASK IR</i> <i>SCR</i>	Defines Serial Port as standard serial port. Supports IRDA mode. Supports SHARP ASK-IR protocol with maximum baudrate up to 57600bps.
• UR2 Duplex Mode	<i>Half /Full</i>	Default is recommended.
• Onboard Parallel Port	<i>378/IRQ7</i> <i>278/IRQ5</i> <i>3BC/IRQ7</i> <i>Disabled</i>	Define parallel port address and IRQ channel. Onboard parallel port is disabled.
• Parallel Port Mode	<i>SPP / EPP</i> <i>ECP /</i> <i>ECP+EPP</i>	Define the parallel port mode.
• ECP Mode Use DMA	<i>3</i> <i>1</i>	Set ECP Mode Use DMA is 1 or 3.



PC Health Status



PC Health Status Menu

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

<u>Item</u>	<u>Option</u>	<u>Description</u>
<ul style="list-style-type: none"> Shutdown Temperature 	<p>60°C/140°F</p> <p>65°C/149°F</p> <p>70°C/158°F</p> <p>75°C/167°F</p> <p>Disabled</p>	<p>The system will shut down automatically under the ACPI OS when the CPU temperature reaches the previous setting, 60°C/140°F, 65°C/149°F, 70°C/158°F, 75°C/167°F.</p> <p>The system remains on regardless of how much the CPU temperature is.</p>



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. USB2.0 Driver(optional)
- C. Audio Driver(optional)
- D. DirectX

2. Accessory

- A. QFlashV1.0(optional)

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
- B. BIOSmanual_ch
- C. BIOSmanual_en
- D. EASY_ch
- E. EASY_en



SpeedEasy



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.

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 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.

LogoEasy II



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, WINDOWS9X, WINDOWSNT, WINDOWSME and WINDOWSXP.

RecoveryEasy II

(only support IDE hard disk)



RecoveryEasy II — the latest edition of RecoveryEasy, providing a more easy-tooperate 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.

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.

Note: if you need detailed information about Easy technology, please view them in the CD or visit our web-site: www.qdigrp.com.



QDI BootEasy(German)

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

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Instalación de la placa base QDI K8N4/K8N4U(Spanish):

1. Asegúrese que se incluyen los siguientes artículos: Placa base QDI K8N4/K8N4U, 1 cable de datos para el puerto IDE y 1 cable de datos para el Floppy, jumpers, 1 manual de usuario QDI K8N4/K8N4U y un disco compacto con los controladores de la placa base QDI K8N4/K8N4U.
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 K8N4/K8N4U 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 K8N4/K8N4U marcado como "CPUFAN".
6. Inserte los módulos de memoria en los bancos de memoria DIMM de su placa base QDI K8N4/K8N4U.
7. Inserte las tarjetas PCI y/o la tarjeta AGP en las bahías de expansión de su placa base QDI K8N4/K8N4U.
8. Conecte los periféricos internos IDE y las disqueteras mediante los cables de datos específicos a su placa base QDI K8N4/K8N4U. 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 K8N4/K8N4U, 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 K8N4/K8N4U).
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 K8N4/K8N4U (consulte el apartado "External Connectors" en el manual de su placa base QDI K8N4/K8N4U, 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 K8N4/K8N4U). 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 K8N4/K8N4U.

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. USB2.0 Driver(optional) |
| C. Audio Driver(optional) | D. DirectX |

2. Accesorios

- A. QFlashV1.0(Opcional)

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. Awdf flash.exe | B. Cblog.exe |
| C. Lf.exe | |



Manuel d'installation des cartes mères de la série QDI K8N4/K8N4U (French):

Intégration du système :

1. Vérifier la présence de chaque élément dans la boîte de la carte mère de la série QDI K8N4/K8N4U :
 - Une carte mère de la série QDI K8N4/K8N4U.
 - Un CD-ROM d'installation QDI.
 - Un manuel d'utilisation de la carte mère QDI K8N4/K8N4U.
 - 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 K8N4/K8N4U 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 K8N4/K8N4U lors de son achat.
5. Connecter le processeur dans le socket intégré à la carte mère de la série QDI K8N4/K8N4U 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 K8N4/K8N4U et prévus à cet effet.
6. Connecter les éventuelles barrettes de mémoire dans les slots intégrés à la carte mère de la série QDI K8N4/K8N4U 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 K8N4/K8N4U 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 K8N4/K8N4U 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 K8N4/K8N4U 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 K8N4/K8N4U 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 K8N4/K8N4U. 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 K8N4/K8N4U 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 K8N4/K8N4U 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 K8N4/K8N4U.



Lors de son achat un CD-ROM d'installation QDI est livré avec la carte mère de la série QDI K8N4/K8N4U.

1. Driver Install :

Avec cette option, il est possible d'installer les pilotes de la carte mère de la série QDI K8N4/K8N4U 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. USB2.0 Driver(optional) |
| C. Audio Driver(optional) | D. DirectX |

2. Accessory :

Applications contenues dans le dossier :

- A. QflashV1.0(Optional)

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 K8N4/K8N4U installazione mainboard (Italian):

1. Assicurarsi che la scatola sia completa: QDI K8N4/K8N4U mainboard, cavo IDE e Floppy, jumpers, manuale dell'utente della mainboard QDI K8N4/K8N4U 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 un 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'interuttore di stand by, il connettore del led di segnalazione "accesso", 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 funzionalita'). 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

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. USB2.0 Driver(optional) |
| C. Audio Driver(optional) | D. DirectX |

2. A. QflashV1.0(Optional)

3. Guardando il CD

Questo manuale di installazione e' 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(4-/6- Channel Audio Interface)

The motherboard is equipped with Realtek ALC655 chip, which provides support for 6-channel audio output, including 2 Front, 2 Rear, 1 Center and 1 Subwoofer channel. ALC655 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

The Realtek ALC655 chipset driver has to be installed before the 4-/6-Channel audio function can be used.

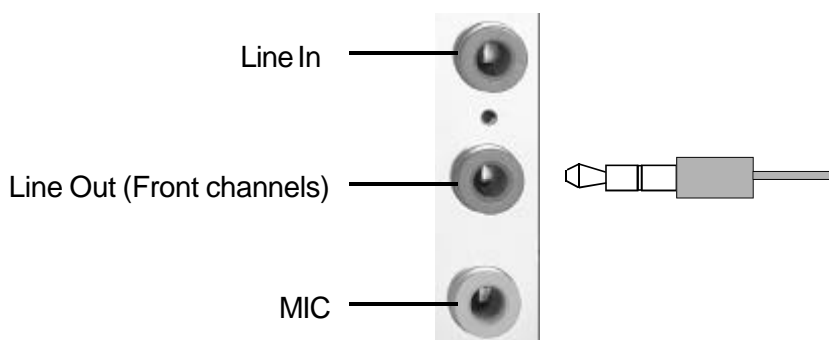
Using 4-/6-channel Audio Function

You can start to use the 4-/6-channel audio function After the driver is installed completely. The first, you can connect 4 or 6 speakers to the audio output connector. Then open utility to set the work parameter.

Attaching speakers

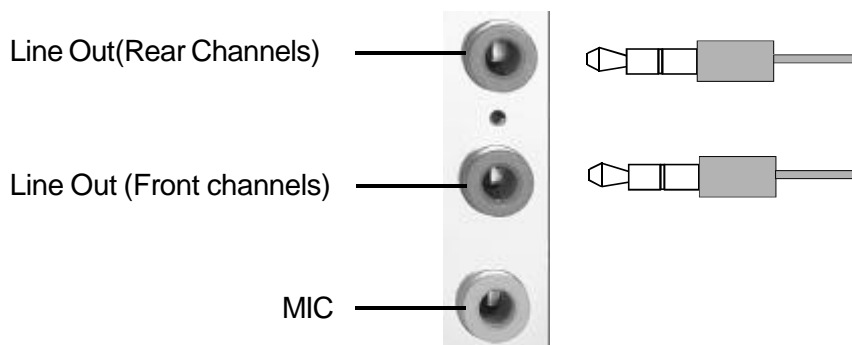
To perform multichannel audio operation, connect multiple speakers to the system. You should connect the same number of speakers as the audio channels you will select in the software utility.

2-Channel Analog Audio Output



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

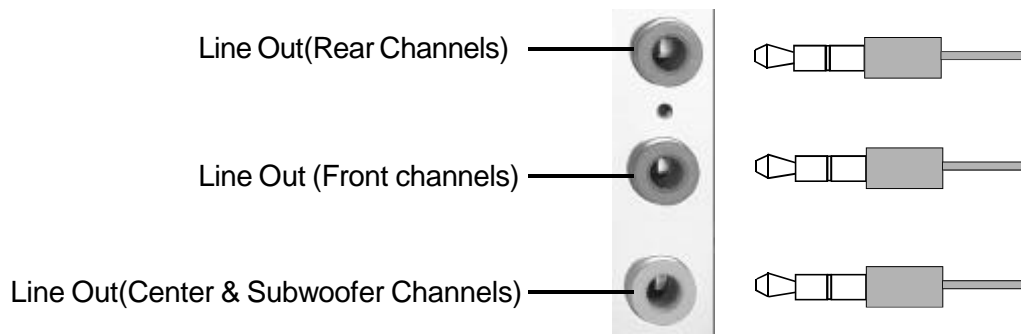
4-Channel Analog Audio Output



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




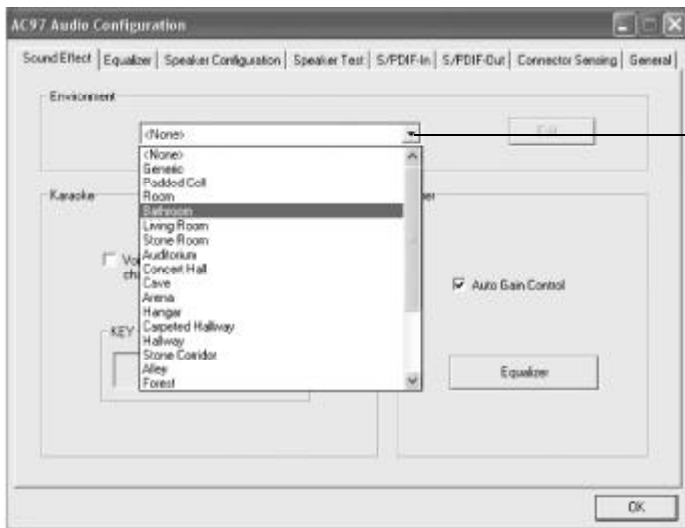
6-Channel Analog Audio Output



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

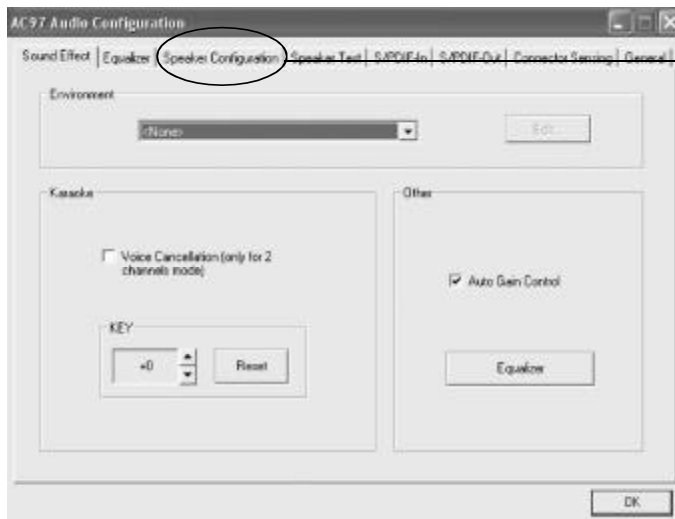
Selecting 4- or 6-Channel Setting

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

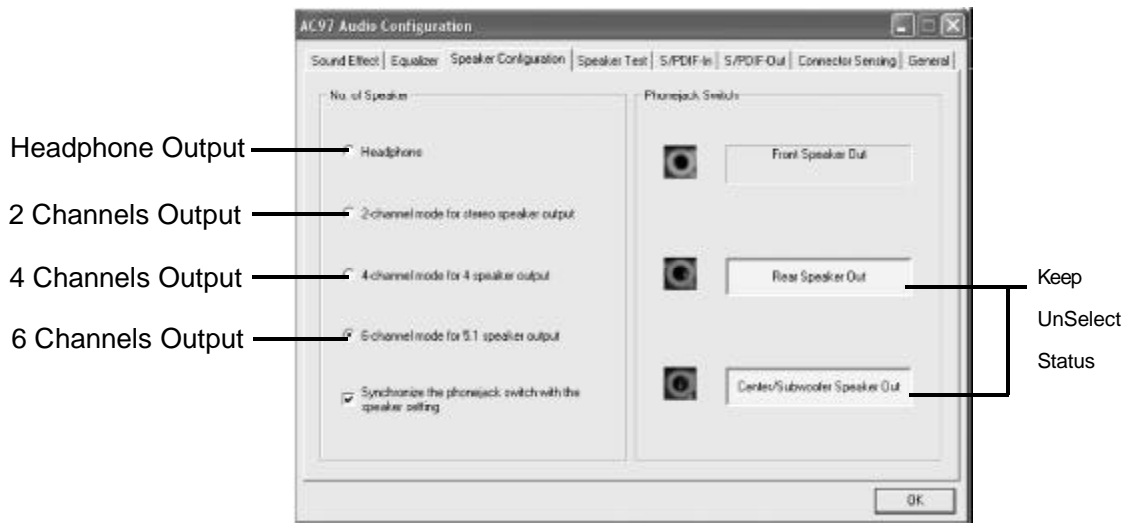
3. Click the Speaker Configuration tab.



Click here



4. The following window appears.




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

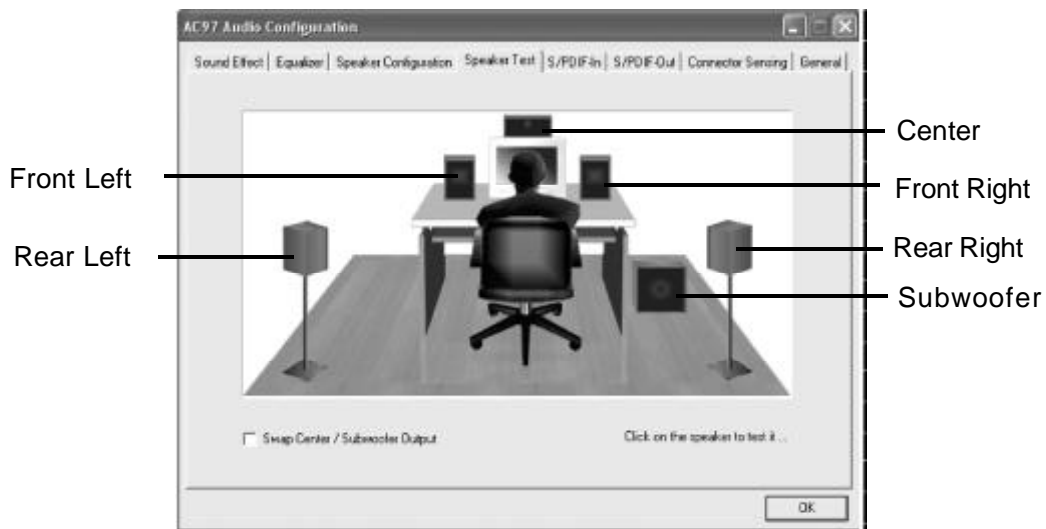
Testing the Connected Speakers

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

The following window appears.

1. Click the audio icon  from the window tray at the bottom of the screen.
2. Click the Speaker Test tab.
3. The following window appears.




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

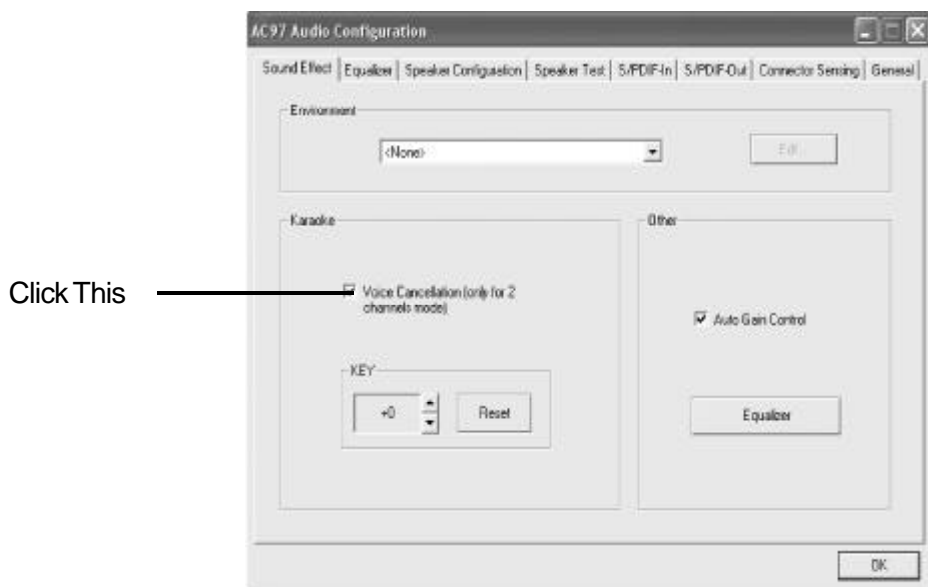


Playing KaraOK

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

Playing KaraOK

1. Click the audio icon  from the window tray at the bottom of the screen.
2. Make sure the Sound Effect tab is selected.
3. Select Voice Cancellation in the “Karaoke” column.



4. Click OK.



Selecting 8-Channel Setting

The Realtek chip provides 8-channel audio capability to deliver the ultimate audio experience on your PC.

First install the Audio driver from the QDI CD that came with the motherboard package. If the Realtek audio software is correctly installed, you will find the SoundEffect icon on the taskbar. From the taskbar, Double-click on the Sound Effect to display the Realtek Audio Control Panel.



Sound Effect Options

The audio allows you to set your listening environment, adjust the equalizer, set the karaoke or select pre-programmed equalizer settings for your listening pleasure.

To set the sound effect options:

1. from the Realtek Audio Control Panel, click the Sound Effect button.
2. click the shortcut buttons to change the acoustic environment, adjust the equalizer, or set the karaoke to your desired settings.
3. the audio settings take effect immediately after clicking on the buttons.
4. click the Exit button on the upper-ring hand corner of the window to exit.

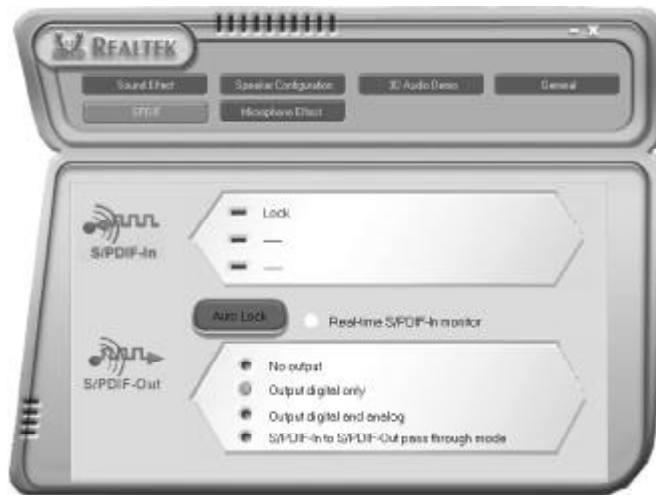


SPDIF Options

The SPDIF options allows you to change your SPDIF output settings.

To set the SPDIF options:

1. from the Realtek Audio Control Panel, click the SPDIF button.
2. click the shortcut buttons to change the SPDIF settings.
3. click the Exit button on the upper-ring hand corner of the window to exit.



Speaker Configuration

The option allows you to set your speaker configuration.

To set the speaker configuration:

1. from the Realtek Audio Control Panel, click the speaker configuration button.
2. select from the combo list box your current speaker setup, then click Auto Test to test your settings.
3. click the Exit button on the upper-ring hand corner of the window to exit.



3D Audio Demo

The option shows a demo of the 3D Audio functions.

To start the 3D Audio Demo:

1. from the Realtek Audio Control Panel, click the 3D Audio Demo button.
2. click the option buttons to change the sound, moving path or EAX settings.
3. click the play button to start or the stop button to stop.
4. click the Exit button on the upper-ring hand corner of the window to exit.



General settings

The option shows the audio settings and allows you to change the language setting or topple the SoundEffect icon display on the windows taskbar.

To display the general settings:

1. from the Realtek Audio Control Panel, click the general button.
2. click the option button to enable or disable the icon display on the windows taskbar.
3. click the language combo list box to change language display.
4. click the Exit button on the upper-ring hand corner of the window to exit.



Microphone Effect

The option allows you to set microphone effect.

To start the microphone effect:

1. from the Realtek Audio Control Panel, click the microphone effect button.
2. you can set microphone effect: Noise Suppression or Stereod Microphone.
3. click the Exit button on the upper-ring hand corner of the window to exit.

