



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.

- KuDoz 7G (KD7G) series mainboard
- QDI Utility CD
- User's manual
- IDE ribbon cable
- Floppy ribbon cable
- I/O shield(option)
- Cable with bracket for USB Connectors(option)

Notice

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

Declaration of conformity



QUANTUM DESIGNS(HK) LTD.

**20th Floor, Devon House, Taikoo Place, 979 King's Road,
Quarry Bay, Hong Kong**

declares that the product

**Mainboard
KuDoz 7G**

is in conformity with

(reference to the specification under which conformity is declared in
accordance with 89/336 EEC-EMC Directive)

- EN 55022 Limits and methods of measurements of radio disturbance characteristics of information technology equipment
- EN 50081-1 Generic emission standard Part 1:
Residential, commercial and light industry
- EN 50082-1 Generic immunity standard Part 1:
Residential, commercial and light industry

European Representative:

QDI COMPUTER (UK) LTD

QDI COMPUTER (SCANDINAVIA) A/S

QDI SYSTEM HANDEL GMBH

QDI EUROPE B. V.

QDI COMPUTER (FRANCE) SARL

QDI COMPUTER HANDELS GMBH

LEGEND QDI SPAIN S.L

QDI COMPUTER (SWEDEN) AB

Signature :

Place / Date : HONG KONG/2002

Printed Name : Xu Wenge

Position/ Title : Assistant President

Declaration of conformity



Trade Name: QDI Computer (U . S . A .) Inc.
Model Name: **KuDoz 7G**
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Equipment Classification: FCC Class B Subassembly
Type of Product: Mainboard
Manufacturer: Quantum Designs (HK) Inc.
Address: 20th Floor, Devon House, Taikoo Place
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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 : 

Date : 2002

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Caution

Be sure to add some Silicone Grease between the CPU and the heatsink of FAN to keep them fully contact , meanwhile to meet the heat sink requirement.

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.



This manual is suitable for mainboards of KuDoz 7G series. Each mainboard is carefully designed for the PC user who wants diverse features.

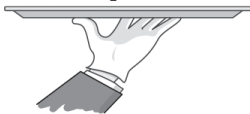
-6A: with 6 channel Audio

-L: with onboard LAN



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Chapter 1



Introduction

KuDoz 7G series mainboard utilizes VIA Apollo KM266(KM266 + VT8235) Chipset, providing a fully compatible, high performance and cost-effective mATX platform. The mainboard provides 200/266MHz FSB to support socket A processors and it supports DDR200/266 SDRAM with the largest memory size up to 2GB. The new integrated technologies, together with AC'97 Audio, 4 USB 2.0 ports, and Ultra DMA133/100/66/33, give customers an advanced, multimedia solution at a reasonable price. It also provides advanced features such as ACPI functions. Suspend 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. BootEasy, our innovation, lets the PC boot freely and rapidly.



Key Features

Form factor

- mATX form factor of 244mm x 200mm

Microprocessor

- Supports 700MHz, 750MHz..... 1.4GHz Socket A for AMD ® Athlon processor
- Supports 1500+, 1600+.....2100+ Socket A for AMD ® Athlon XP processor
- Supports 600MHz, 650MHz..... 1.3GHz Socket A for AMD ® Duron processor
- Supports 200/266MHz FSB

System memory

- Provides two 184-pin DDR DIMM sockets
- Supports DDR 200/266 SDRAM
- Supports 64/128/256/512Mb DDR SDRAM technology
- The largest total memory is up to 2GB

Graphics

- AGP interface with 4X SBA/data transfer

Onboard IDE

- Supports Independent timing of up to 4 drives
- Supports Ultra DMA 133/100/66/33, PIO mode
- Supports Two fast IDE interfaces which can support four IDE devices including IDE hard disks and CD-ROM /DVD-ROM drivers

4 USB

- 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 4 USB2.0/1.1 ports

Onboard LAN

(Available on -L/-6AL series mainboard)

- 10/100 Mbit/sec Ethernet support
- 10/100M LAN interface built-in on board



Onboard Audio

AC'97 6-Channel Audio

- AC'97 2.1 Specification Compliant
 - Provides onboard Line-in Jack, Microphone-in Jack, Speaker-out Jack with onboard amplifier and MIDI/Joystick Connector
 - Supports high quality of 5.1 Channel audio effect, bringing you a brand new audio experience
- SPDIF output(optional)
- The SPDIF connector is capable of providing digital audio

Onboard I/O

- One floppy port supports up to two 3.5" or 5.25" floppy drives with 360K/720K/1.2M/1.44M/2.88M format
- One high speed 16550 compatible UARTs with 16 byte send/receive FIFO
- One parallel port supports SPP/EPP/ECP mode
- Infrared interface
- All I/O ports can be enabled/disabled in the BIOS setup

BIOS

- Licensed advanced AWARD(phoenix) BIOS
- Supports Flash RAM with plug and play ready
- Supports IDE CD-ROM or SCSI 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)

Expansion slots

- 2 PCI slots
- 1 AGP slot



Advanced features

- PCI 2.2 Specification Compliant
- Provides Trend ChipAwayVirus On Guard
- Supports Windows 98/2000/ME/XP soft-off
- Providing QDI innovations such as RecoveryEasy II, BIOS-ProtectEasy, LogoEasyII, and BootEasy



Note:

Our technology is now being upgraded, the description and Interface for Easy technology in this manual are only for your reference. If you would like to get the upgraded version, please download the latest BIOS or the utility from the website to re-flash your mainboard; if your mainboard supports the latest version Easy technology, refer to the webpage for functions and detailed operation of the technology.



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 directions.



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 available on -L/-6AL series mainboard)

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



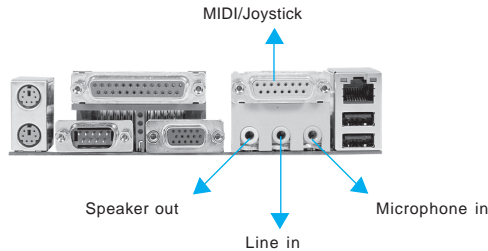
Warning:

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.



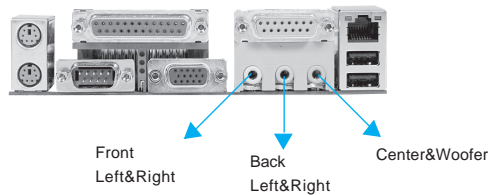
Line-in jack, Microphone-in jack, Speaker-out jack and MIDI/Joystick Connector

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

The mainboards provide 6-Channel Audio. It consists of Front Left, Front Right, Back Left, Back 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.



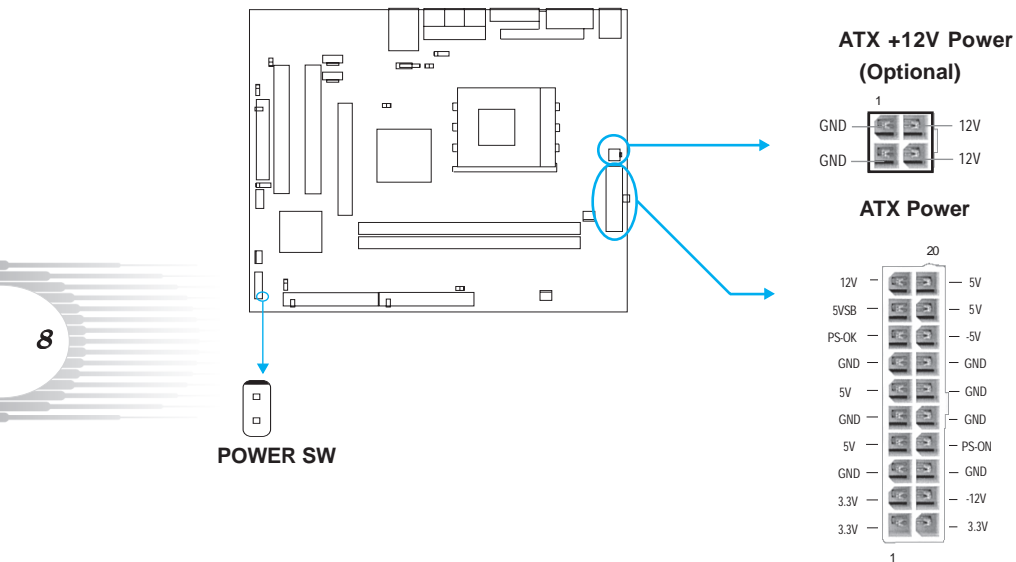
Parallel Port, Serial Port and VGA Output Connector

The parallel port connector can be connected to a parallel device such as a printer. The serial port COM1 connectors can be connected to a serial port device such as a serial port mouse. The VGA output connector is for output to a VGA-compatible device.



ATX/ATX 12 Power Supply Connector & Power Switch (POWER SW)

Be sure to connect the power supply plug to this connector in its proper orientation. 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.



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)

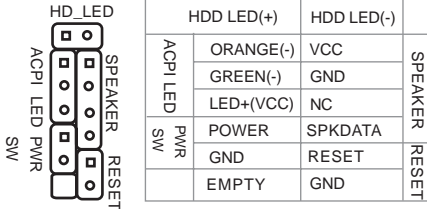
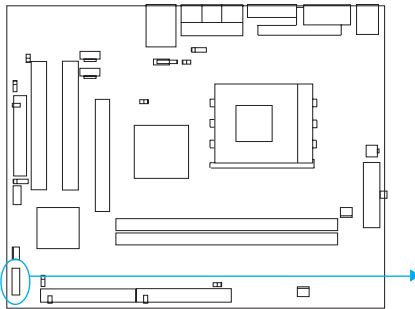
The connector connects to the case's reset switch. Press the switch once, the system resets.

Speaker Connector (SPEAKER)

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

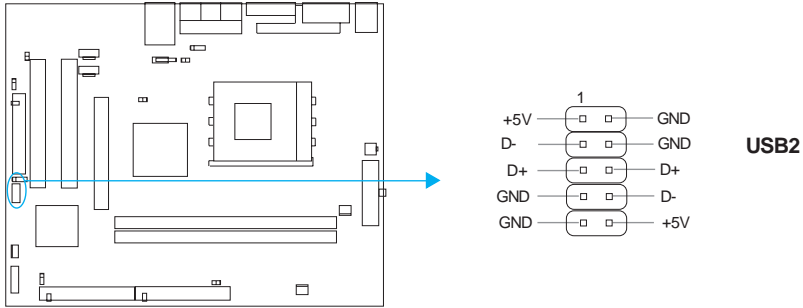
ACPI LED Connector (ACPI LED)

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.



Front panel USB2 Connectors

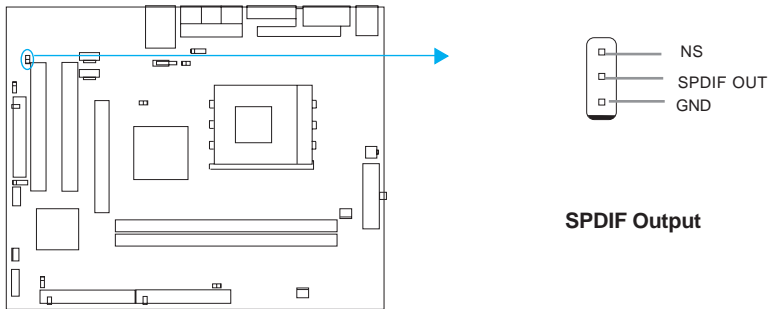
Besides USB1 and USB2 ports on the back panel, the mainboard also has another one 10-pin headers on board which may connect to front panel USB cable to provide additional 2 USB Ports.



10

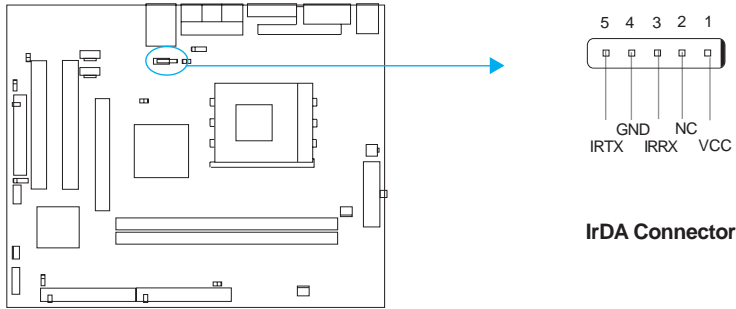
S/PDIF Output Connector(SPDIF)(Optional)

The S/PDIF (Sony/Philips Digital Interface) output connector allow your digital audio output to the SPDIF_in on the external speaker.



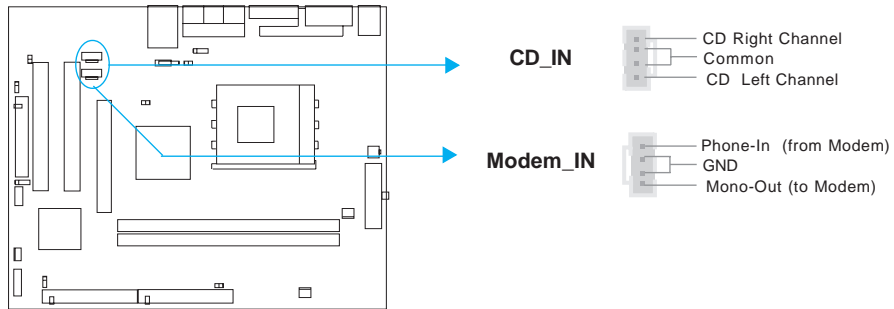
Infrared Header (IrDA)

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



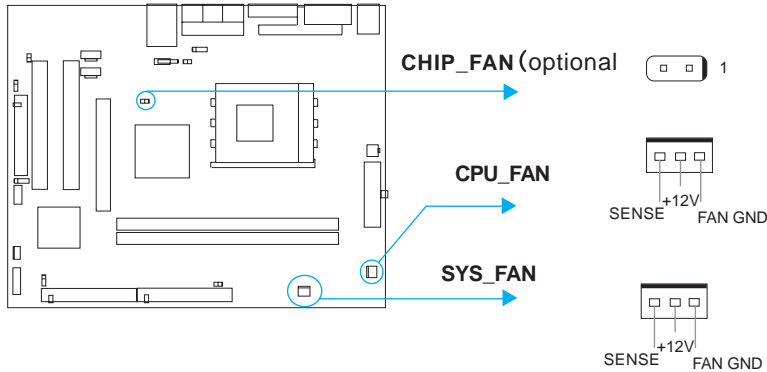
Audio Connectors (CD_IN, MODEM_IN)

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



Fan Connectors (CPUFAN, CHIPFAN, SYS_FAN)

The speeds of three fans can be detected . These fans will be automatically turned off after the system enters suspend mode.












Main Expansion Slots and Connectors

Slot/Port (Quantity)	Description
PCI(2)	PCI slots
AGP(1)	AGP slot
IDE(2)	IDE ports
FLOPPY(1)	Floppy Drive port
DIMM(2)	DIMM sockets
USB(4)	USB connectors
COM(1)	COM connectors
PARALLEL(1)	Parallel connector
IrDA(1)	IrDA connector
SPDIF(1)(optional)	S/PDIF connector



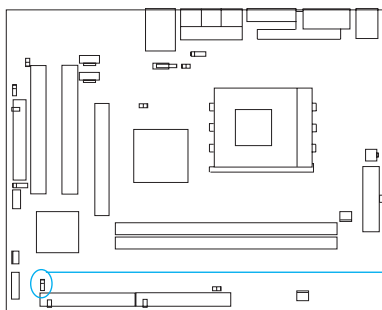
Jumper Settings

Jumpers are located on the mainboard, they represent, clear CMOS jumper CLR_CMOS, enable BIOS Protection function jumper BIOS_WP etc. Pin 1 for all jumpers are located on the side with a thick white line (Pin1~ ), refer to the mainboard's silkscreen. Jumpers with three pins will be shown as  to represent pin1 & pin2 ("1-2")connected and  to represent pin2 & pin3 ("2-3") connected.

Jumper	Symbol	Description	Represent
 3-pin		1-2	set pin1 and pin2 closed
		2-3	set pin2 and pin3 closed
 2-pin		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 as pin2 & pin3 connected, then power on the system.



CLR_CMOS

Normal status:
(Default)



Clear CMOS:

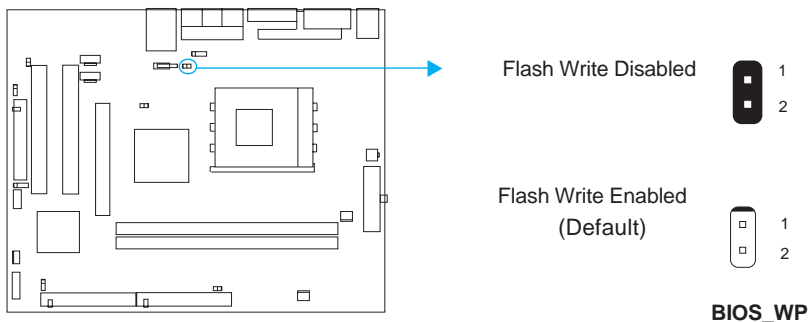


(Unplug the AC power supply)



BIOS Protection Jumper (BIOS_WP)

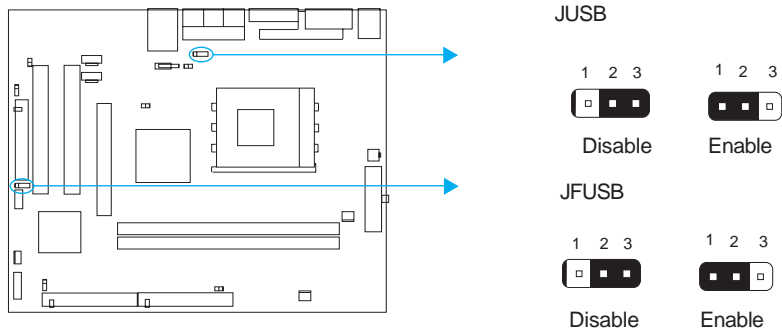
If the jumper BIOS_WP is set as closed, you will be unable to flash the BIOS to the mainboard. However in this status, the system BIOS is protected from being attacked by serious virus such as CIH virus.



The mainboard provides the BootEasy function. If you want to use this function, please set the jumper BIOS_WP as open before you use this function. Refer to the BootEasy introduction.

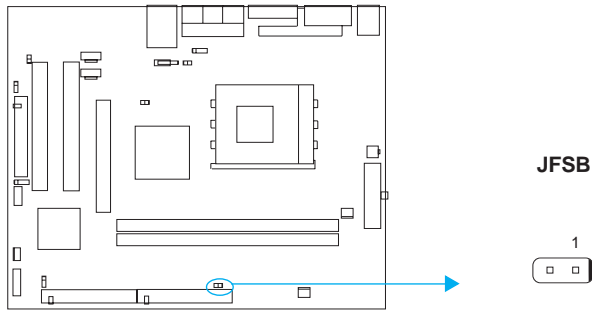
Enable Front/Back Panel USB Device Wake-up Function (JFUSB/JUSB)

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



Clocking Setting Jumper (JFSB)

The jumper JFSB located on the mainboard provides users with CPU clocking setting feature. The host bus speed can be set as 100/133MHz. The table below for your reference.



JFSB	FSB
Close	100MHz
Open	133MHz

AMD Athlon CPU FSB is 100MHz/133MHz, but delivering twice the throughput of 100MHz/133MHz Pentium III-based systems(Ultra -Fast 200MHz/266MHz). However, whether or not your system can be overlocked depends on your processor's capability. We do not guarantee the overlocking system to be stable.

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





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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 a battery-backed CMOS RAM so it retains the Setup information when the power is turned off.

This chapter provides you with the overview of the BIOS



Utility Support

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 on 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>=8.03) from the directory \Utility located on QDI Mainboard Utility CD onto 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 downloaded, copy the BIOS file (xx.bin) onto 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

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



Note:

1. Follow the instruction through the process. Don't turn off power or reset the system until the BIOS upgrade has been completed.
2. AWDFLASH.EXE (version>=8.03) utility must be used to upgrade the mainboard family BIOS instead of QDI flash utility.
3. BIOS version will update constantly. We will not be responsible for any BIOS description differ from your mainboard BIOS shown.



AWARD(Phoenix) 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

Once you have entered, the Main Menu (Figure 1) appears on the screen. The main menu allows you to select from eleven setup functions and two exit choices. Use the arrow keys to select among the items and press the <Enter> key to accept or enter the sub-menu.

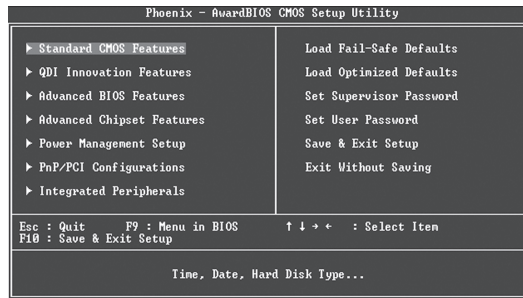


Figure-1 Main Menu

Load Fail-Safe Defaults

The Fail-Safe Defaults are secure and useful for system. It is recommended users load the Fail -Safe Defaults when the system is in trouble.

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.



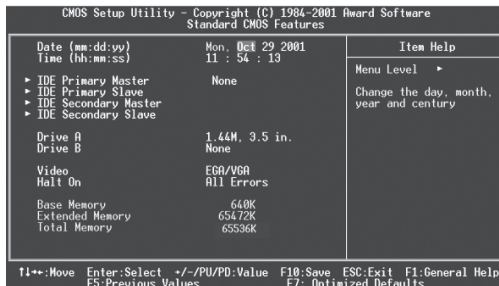


Figure-2 Standard CMOS Setup Menu

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

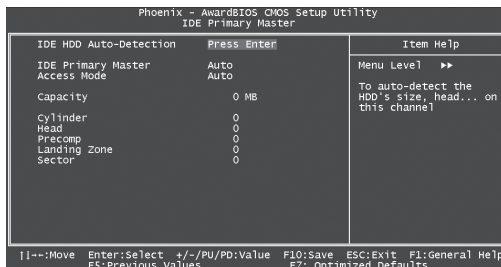


Figure-2-1 IDE Primary Master Setup Menu

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: NORMAL, LBA and LARGE.

CHS mode

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 NORMAL 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 that may be 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

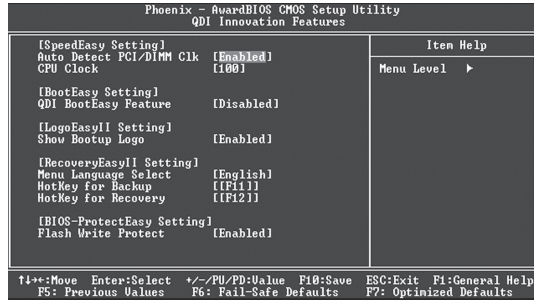


Figure-3 QDI Innovation features Menu

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

<u>Item</u>	<u>Option</u>	<u>Description</u>
[SpeedEasy setting]		
● Auto Detect DIMM/PCI Clk	<i>Enabled</i> <i>Disabled</i>	Closes empty DIMM or PCI clock to reduce EMI. Does not close empty DIMM or PCI clock.
● CPU Host/PCI Clock	<i>Default</i> <i>100/33MHz</i> <i>150/38MHz</i>	Sets CPU/PCI Clock as default. Sets CPU/PCI Clock manually.
[BootEasy setting]		
● QDI BootEasy feature	<i>Enabled</i> <i>Disabled</i>	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	<i>Enabled</i> <i>Disabled</i>	The logo will be shown automatically when system boots up, otherwise, no logo appears on the screen.



[RecoveryEasyII setting]

- Menu language Select
- Hotkey for Backup/Recovery

English
Chinese

Select RecoveryEasyII Interface Menu language.

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

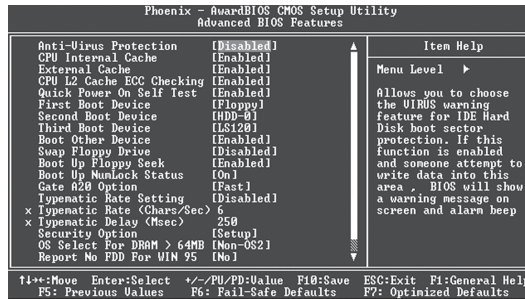


Figure-4 Advanced BIOS Features Menu

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

<u>Item</u>	<u>Option</u>	<u>Description</u>
● Anti-Virus Protection	<i>Enabled</i>	Allows you to choose the VIRUS warning feature for IDE Hard Disk boot sector protection. If this function is enabled and someone attempt to write data into this area, BIOS will show a warning message on screen and alarm beep.
	<i>Disabled</i>	Invalidates this function.
● CPU Internal Cache	<i>Enabled</i>	Enables CPU internal cache.
	<i>Disabled</i>	Disables CPU internal cache.
● External Cache	<i>Enabled</i>	Enables CPU external cache.
	<i>Disabled</i>	Disables CPU external cache.
● CPU L2 Cache ECC Checking	<i>Enabled</i>	Enables CPU L2 Cache ECC function.
	<i>Disabled</i>	Disables CPU L2 Cache ECC function.
● Quick Power On Self Test	<i>Enabled</i>	Enables quick POST. BIOS will shorten or skip some check items during POST to speed up POST after you power on the computer.
	<i>Disabled</i>	Normal POST.



- First (Second, Third) Boot Device
Boot Other Device

*Disabled
Floppy/
LS120
/CDROM
...*

Select Your Boot Device Priority. It could be Disabled, Floppy, LS/ZIP, HDD-0, HHDD-2, HDD-3, SCSI, CDROM, LAN.
- Swap Floppy Drive

*Enabled
Disabled*

If the system has two floppy drives, choose enable to assign physical drive B to logical drive A and vice-versa.
- Boot Up Floppy Seek

*Enabled
Disabled*

Tests floppy drives to determine whether they have 40 or 80 tracks.
- Boot Up NumLock Status

*On
Off*

Keypad is used as number keys.
Keypad is used as arrow keys.
- Gate A20 Option

Normal

The A20 signal is controlled by the keyboard

Fast

The A20 signal is controlled by Port92.
- Typematic Rate Setting

*Enabled
Disabled*

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

*Setup
System*

Select whether the password is required every time the system boot or only when you enter setup.



- | | | |
|------------------------------|-----------------------------------|---|
| • 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. |
| • Report no FDD
for WIN95 | <i>Yes</i>
<i>No</i> | Report No Floppy Disk Drive for WIN95 to release
IRQ6.
Do not report No Floppy Disk Drive for WIN95. |
| • Video BIOS
Shadow | <i>Enabled</i>
<i>Disabled</i> | Video BIOS will be copied to RAM. Video Shadow
will increase the video speed.
Invalidates this feature. |



Advanced Chipset Features Setup

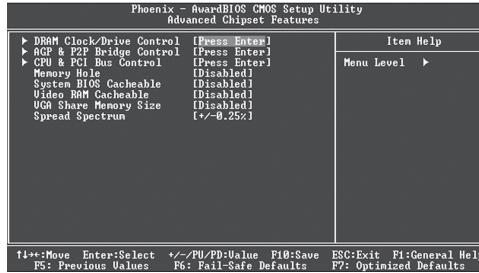


Figure-5 Advanced Chipset Features Menu

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

<u>Item</u>	<u>Option</u>	<u>Description</u>
● DRAM Clock/Drive Control	<i>Press Enter</i>	Enters to set the items about DRAM.
● Current FSB Frequency		Displays current FSB Frequency.
● Current DRAM Frequency	<i>100/133MHz</i> <i>166/200MHz</i>	Current DRAM Frequency.
● DRAM Clock	<i>100/133</i> <i>166/200</i> <i>By SPD</i>	Sets DDR clock 200/266/333/400MHz. DDR clock is defined by SPD.
● DRAM Timing	<i>By SPD</i> <i>Manual</i> <i>Turbo/Ultra</i>	DDR Timing is defined by SPD. Sets DDR Timing manually.
● DRAM Command Rate	<i>1T</i> <i>2T</i>	Defines the DRAM command rate.
● AGP Aperture Size	<i>4/8/16/32</i> <i>...256MB</i>	Set the effective size of the Graphics Aperture to be used in the particular GART Configuration.



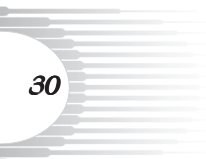
- | | | |
|--------------------------|-----------------------------------|---|
| ● AGP Driving Control | <i>Auto</i>
<i>Manual</i> | The default setting is recommended. |
| ● AGP Driving Value | <i>00-FF</i> | Sets this item when the AGP 4x card runs incorrectly. |
| ● AGP Fast Write | <i>Enabled</i>
<i>Disabled</i> | Enables AGP Fast Write.
Disables AGP Fast Write. |
| ● AGP Master 1 WS Write | <i>Enabled</i>
<i>Disabled</i> | Enables AGP Master 1 WS Write.
Disables AGP Master 1 WS Write. |
| ● AGP Master 1 WS Read | <i>Enabled</i>
<i>Disabled</i> | Enables AGP Master 1 WS Read.
Disables AGP Master 1 WS Read. |
| ● PCI1 Master 0 WS Write | <i>Enabled</i>
<i>Disabled</i> | Enables PCI1 Master 0 WS Write.
Disables PCI1 Master 0 WS Write. |
| ● PCI2 Master 0 WS Write | <i>Enabled</i>
<i>Disabled</i> | Enables PCI2 Master 0 WS Write.
Disables PCI2 Master 0 WS Write. |
| ● PCI1 Post Write | <i>Enabled</i>
<i>Disabled</i> | Enables PCI1 Post Write.
Disables PCI1 Post Write. |
| ● PCI2 Post Write | <i>Enabled</i>
<i>Disabled</i> | Enables PCI2 Post Write.
Disables PCI2 Post Write. |
| ● PCI Delay Transaction | <i>Enabled</i>
<i>Disabled</i> | Enables PCI Delay Transaction.
Disables PCI Delay Transaction. |
| ● Memory hole | <i>15M-16M</i>
<i>Disabled</i> | Memory hole at 15-16M is reserved for expanded ISA card.
Do not set this memory hole. |
| ● System BIOS Cacheable | <i>Enabled</i>
<i>Disabled</i> | Besides conventional memory, system BIOS area is also cacheabl
Video BIOS area is not cacheable. |



- Video RAM Cacheable
 - Enabled* Besides conventional memory, video RAM area is also cacheable.
 - Disabled* Video RAM area is not cacheable.

- VGA Share Memory Size
 - 8/16/32MHz* Set share memory of onboard VGA.
 - Disabled* Disable this function.

- Spread Spectrum
 - +/-0.25%* Enables Spread Spectrum to reduce EMI.
 - 0.5%*
 - ...*
 - Disabled* Disables Spread Spectrum to reduce EMI.



Power Management Setup

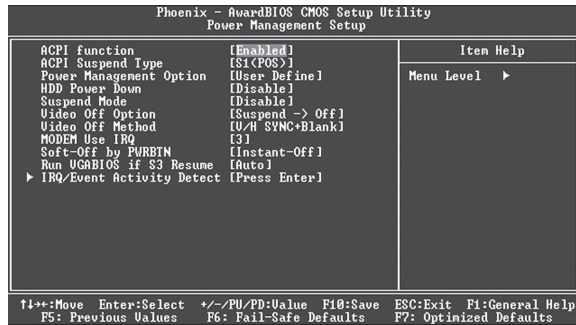


Figure-6 Power Management Setup Menu

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>	Enable ACPI function.
	<i>Disabled</i>	Disable this function.
● ACPI Suspend Type	<i>S1</i>	Select the ACPI suspend type.
	<i>S3</i>	
● Power Management Option	<i>User Define</i>	Users can configure their own Power Management Timer.
	<i>Min Saving</i>	Pre - defined timer values are used. All timers are in their MAX values.
	<i>Max Saving</i>	Pre - defined timer values are used. All timers are in their MIN values.



- Suspend Mode

Disabled The system never enter Suspend mode by timer.
1Min Define the continuous idle time before the
~1Hour system enters Suspend mode. If any items
defined in “PM Events” are on and activated, the
system will be woken up.

- Video Off Option

Suspend->Off Screen blanks after the system enters either
standby mode or suspend mode.
Always On Screen is always on.

- Video Off Method

Blank Screen The system BIOS will only blank off the screen
when disabling video.
V / H SYNC + Blank In addition to Blank Screen, BIOS will also turn
off the V-SYNC & H - SYNC signals from VGA
card to monitor.
DPMS This function is enabled only for VGA cards
supporting DPMS.
**Note: When the green monitor does not detect
the V/H-SYNC signals, the electron gun will be
turned off.**

- MODEM Use IRQ

3,4,5,7,9,10,11 Special Wake-up event for Modem.
NA This function is not applied.

- 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.

- Run VGABIOS if S3 Resume

Auto The VGA device could be initialized automati-
cally when system was waken up from S3 status.
Yes Enable VGA device be initialized when system
was waken up from S3 status.
No Disable VGA device be initialized when system
was waken up from S3 status.



- | | | |
|-----------------------------|--|---|
| ● IRQ/Event Activity Detect | <i>Press Enter</i> | Enters to set the following items. |
| ● USB Resume from S3 | <i>Enabled</i>
<i>Disabled</i> | USB device can be used to wake up the system from S3 status.
Disable this function. |
| ● VGA | <i>On</i>
<i>Off</i> | VGA active reloads global timer.
VGA active has no influence to global timer. |
| ● LPT&COM | <i>LPT, COM</i>
<i>LPT/COM</i>
<i>None</i> | Sets the options of these items to reload global timer.
LPT&COM active has no influence to global timer. |
| ● HDD&FDD | <i>On</i>
<i>Off</i> | HDD&FDD active reloads global timer.
HDD&FDD active has no influence to global timer. |
| ● PCI Master | <i>On</i>
<i>Off</i> | PCI Master active reloads global timer.
PCI Master active has no influence to global timer. |
| ● Power On by PCI Card | <i>Enabled</i>
<i>Disabled</i> | Enables to wake up by PCI card.
Disables to wake up by PCI card. |
| ● RTC Alarm Resume | <i>Enabled</i>

<i>Disabled</i> | RTC alarm can be used to generate a wake event to power up the system which is in power-off status. You can set any date or any time to power up the system.
Invalidate this function. |
| ● Date(of Month) | | Sets the date of RTC. |
| ● Resume Time | | Sets the resume time of RTC. |
| ● IRQs Activity Monitoring | <i>Press Enter</i> | Reloads global timer. |



- Primary INTR

<i>On</i>	Allows wake-up from IRQ.
<i>Off</i>	Does not allow wake-up from IRQ.

- IRQ3~IRQ15

<i>Enabled</i>	Enables IRQ3~IRQ15 to wake up.
<i>Disabled</i>	Disables IRQ3~IRQ15 to wake up.



PNP/PCI Configuration Setup

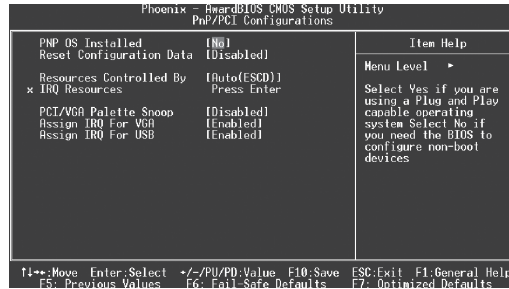


Figure-7 PNP/PCI Configuration Setup Menu

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

<u>Item</u>	<u>Option</u>	<u>Description</u>
● PNP OS Installed	Yes No	Device resources assigned by PnP OS. Device resources assigned by BIOS.
● Reset Configuration Data	<i>Enabled</i> <i>Disabled</i>	The system BIOS will reset configuration data once then automatically set this item as disabled Disables this function.
● Resources Controlled By	<i>Manual</i> <i>Auto(ESCD)</i>	Assigns the system resources (IRQ and DMA) manually . Assigns system resources (IRQ and DMA) automatically by BIOS.
● PCI/VGA Palette Snoop	<i>Enabled</i> <i>Disabled</i>	Enables PCI/VGA Palette Snoop. Disables PCI/VGA Palette Snoop.
● Assign IRQ For VGA	<i>Enabled</i> <i>Disabled</i>	Assigns the needed IRQ for the VGA card. Does not assign an IRQ for the VGA card, in order to release the IRQ.
● Assign IRQ For USB	<i>Enabled</i> <i>Disabled</i>	Assigns an IRQ for USB device. Does not assign an IRQ for USB.



Integrated Peripherals

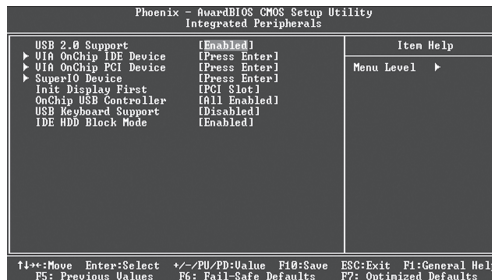


Figure-8 Integrated Peripherals Menu

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

<u>Item</u>	<u>Option</u>	<u>Description</u>
● USB 2.0 Support	<i>Enabled</i> <i>Disabled</i>	Enable USB 2.0 to support. Disable USB 2.0 to support.
● VIA OnChip IDE Device	<i>Press Enter</i>	Enters to set the following items.
● OnChip IDE Channel 0/1	<i>Enabled</i> <i>Disabled</i>	Enables OnChip IDE First/Second Channel. Disables OnChip IDE First/Second Channel.
● IDE Prefetch Mode	<i>Enabled</i> <i>Disabled</i>	Enables IDE Prefetch Mode. Disables IDE Prefetch Mode.
● Primary/ Secondary Master/Slave PIO	<i>Mode 0 ~ 4</i> <i>Auto</i>	Defines the IDE primary/secondary master/slave PIO mode. The IDE PIO mode is defined by auto-detection.
● Primary/ Secondary Master/Slave UDMA	<i>Auto</i> <i>Disabled</i>	Ultra DMA mode will be enabled if an ultra DMA device is detected. Disables this function.
● VIA OnChip PCI Device	<i>Press Enter</i>	Enters to set the following items.



- | | | |
|------------------------------|---|---|
| ● VIA-3058
AC97 Audio | <i>Auto</i>
<i>Disabled</i> | Enables the AC97 Audio. When CT5880
onboard, this item will hide.
Disables the AC97 Audio. |
| ● VIA-3068
MC97 Modem | <i>Auto</i>
<i>Disabled</i> | Enables the MC97 Modem.
Disables the MC97 Modem. |
| ● VIA-3043
onchip LAN | <i>Enabled</i>
<i>Disabled</i> | Enables onboard LAN.
Disables onboard LAN. |
| ● Super IO Device | <i>Press</i>
<i>Enter</i> | Enters to set the following items. |
| ● Onboard LAN
BootRom | <i>Disabled</i>
<i>Enabled</i> | Disables BOOT from onboard LAN.
Enables BOOT from onboard LAN. |
| ● Onboard FDC
Controller | <i>Enabled</i>
<i>Disabled</i> | Onboard floppy drive controller is enabled.
Onboard floppy drive controller is disabled. |
| ● Onboard Serial
Port 1/2 | <i>3F8/IRQ4</i>
<i>...</i>
<i>Auto</i>
<i>Disabled</i> | Defines the onboard serial port address and
required interrupt number.
Onboard serial port address and IRQ are auto-
matically assigned.
Onboard serial port is disabled. |
| ● 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 maxi-
mum baud rate up to 57600bps.
Supports SCR mode. |
| ● IR Transmission
Delay | <i>Enabled</i>
<i>Disabled</i> | Enables IR Transmission delay function.
Enables IR Transmission delay function. |
| ● UR2 Duplex Mode | <i>Full</i>
<i>Half</i> | Sets UR2 as full duplex mode.
Sets UR2 as half duplex mode. |
| ● Use IR Pins | <i>IR-Rx2Tx2</i> | Defaults is recommended. |



- Onboard Parallel Port *378/IRQ7 ... Disabled* Defines onboard parallel port address and IRQ channel.
Onboard parallel port is disabled.
- Parallel Port Mode *SPP EPP,ECP ECP+EPP* Defines the parallel port mode as Standard Parallel Port (SPP), Enhanced Parallel Port (EPP), or Extended Capabilities Port (ECP).
- EPP Mode Select *EPP1.7/1.9* Select EPP mode.
- ECP Mode Use DMA *1, 3* Sets DMA for ECP mode use.
- Game Port Address *201/209 Disabled* Sets Game Port address. When CT5880 onboard, this item will hide.
Disables Game Port.
- MIDI Port Address *300/330 Disabled* Sets Midi Port address. When CT5880 onboard, this item will hide.
Disables Midi port.
- MIDI Port IRQ *5,10* Sets Midi Port IRQ. When CT5880 onboard, this item will hide.
- Init Display First *PCI Slot AGP* Initializes the PCI VGA first. If a PCI VGA card and an AGP card are installed together in the system, the one initialized first functions.
Initializes the AGP first.
- OnChip USB Controller *All Enabled All Disabled* Enables all Onchip USB controller.
Disables all Onchip USB controller.
- USB Keyboard Support *Enabled Disabled* Supports USB keyboard under legacy OS.
Does not support USB KB under legacy OS.
- IDE HDD Block Mode *Enabled Disabled* Allows HDD to read/write several sectors once.
HDD only reads/writes a sector once.



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

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. USB2.0 Driver |
| C. VGA Driver | D. Network Driver(optional) |
| E. Audio Driver(optional) | F. DirectX |

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

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.

ITEM		LogoEasy II	LogoEasy
Colors	16 colors	✗	✗
	256colors	✓	✓
	16M colors	✓	✗
Resolution	640*480	✓	✓
	800*600	✓	✗
Display Self-Test msg at the same time		✓	✓
Full Screen Logo		✓	✓
Display logo on corners		✓	✓

✓ ----- Support ✗ ----- Not 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:**

-
1. 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.
 2. We reserve the right of modifying the default full-logo of QDI without further notification.
-



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 .

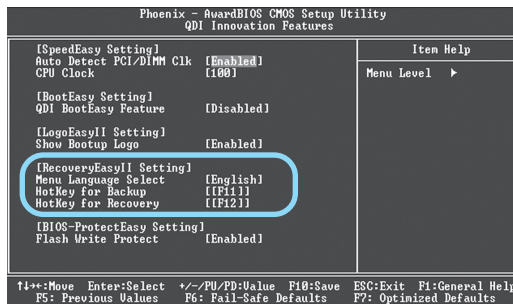


figure-1 QDI Innovation Features

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 11 options, 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:

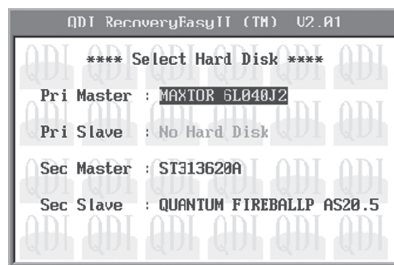


figure-2 Hard Disk Select

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.

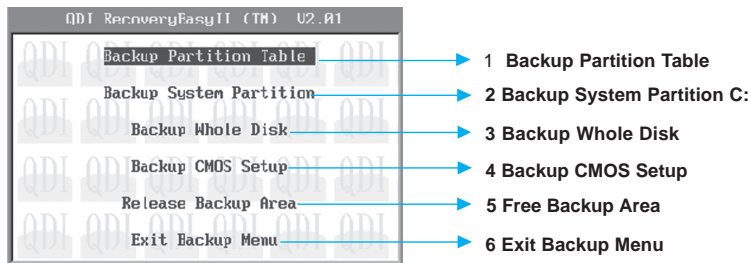


figure-3 Backup Interface



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 (activated 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.

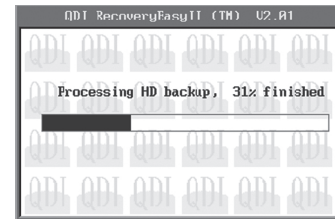
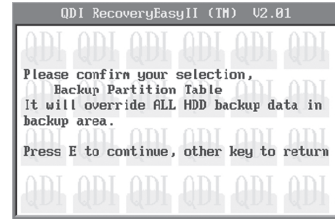


figure-4 Backup process

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.



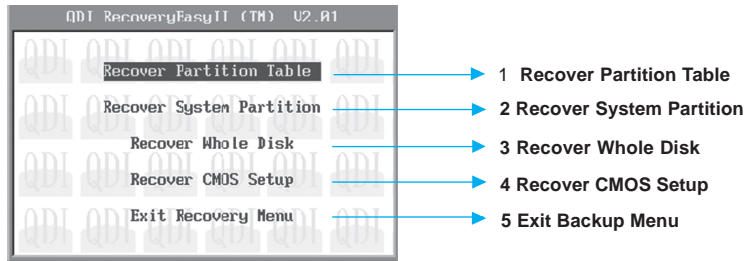


figure-5 Recover Interface

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.

5 Exit Recovery Menu

It is used to exit Recovery Interface.

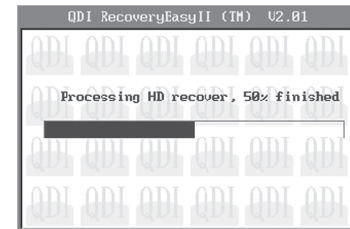
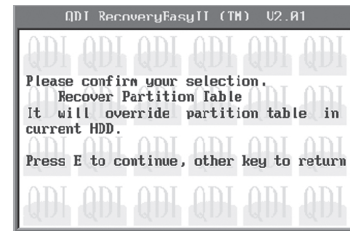


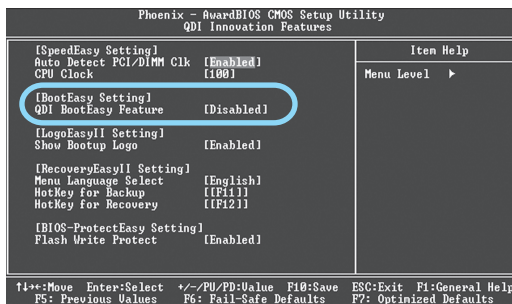
figure-4 Recover process



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.



Note:

1. 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 vabove conditions.
2. Don't power off or reset system while BootEasy initializing.
3. Set "QDI BootEasy Feature" as "Disabled" before you replace system equipment.
Set "QDI BootEasy Feature" as "Enabled" after you accomplished replacing.



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.

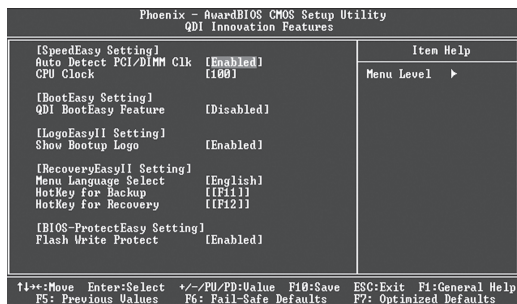
1. Set the jumper (BIOS_WP) as closed, the BIOS can not be overwritten.
2. Set the jumper (BIOS_WP) as opened, meanwhile set "Flash Write Protect" as

Enabled in CMOS Setup. In this way, the BIOS can not be overwritten, but the DMI information can be updated.



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 Legend-QDI KD7G(Spanish):

1. Asegúrese que se incluyen los siguientes artículos: Placa base Legend-QDI KD7G, 1 cable de datos para el puerto IDE y 1 cable de datos para el Floppy, jumpers, 1 manual de usuario Legend-QDI KD7G y un disco compacto con los controladores de la placa base Legend-QDI KD7G.
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 Legend-QDI KD7G en el capítulo 2).
5. Inserte el procesador en el socket y conecte el ventilador del procesador en el conector de su placa base Legend-QDI KD7G marcado como "CPUFAN".
6. Inserte los módulos de memoria en los bancos de memoria DIMM de su placa base Legend-QDI KD7G.
7. Inserte las tarjetas PCI y/o la tarjeta y AGP en las bahías de expansión de su placa base Legend-QDI KD7G.
8. Conecte los periféricos internos IDE y las disqueteras mediante los cables de datos específicos a su placa base Legend-QDI KD7G. 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 Legend-QDI PlatiniX 7B, 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 Legend-QDI KD7G).



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 Legend-QDI KD7G (consulte el apartado “External Connectors” en el manual de su placa base Legend-QDI KD7G, 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 Legend-QDI Superb4). 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 Legend-QDI esta incluido en el paquete de la placa base Legend-QDI KD7G.

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
- C. VGA Driver
- D. Network Driver(optional)
- E. Audio Driver(optional)
- F. DirectX

2. Accesorios

- A. QFlash
- B. Norton AntiVirus

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 Legend-QDI KD7G (French):

Intégration du système :

1. Vérifier la présence de chaque élément dans la boîte de la carte mère de la série Legend-QDI KD7G :
 - Une carte mère de la série Legend-QDI KD7G.
 - Un CD-ROM d'installation Legend-QDI.
 - Un manuel d'utilisation de la carte mère Legend-QDI KD7G.
 - 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 (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 Legend-QDI KD7G 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 Legend-QDI KD7G lors de son achat.



5. Connecter le processeur dans le socket intégré à la carte mère de la série Legend-QDI KD7G 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 Legend-QDI KD7G et prévus à cet effet.
6. Connecter les éventuelles barrettes de mémoire dans les slots intégrés à la carte mère de la série Legend-QDI KD7G et prévus à cet effet.
7. Connecter les éventuelles cartes d'extension au format AGP, ou PCI dans les slots intégrés à la carte mère de la série Legend-QDI KD7G et prévus à cet effet.
8. Connecter les éventuels périphériques IDE ainsi que le lecteur de disquette à la carte mère de la série Legend-QDI KD7G 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 Legend-QDI KD7G 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 Legend-QDI KD7G lors de son achat.
10. Raccorder les périphériques externes sur les connecteurs de fond de panier intégrés à la carte mère de la série Legend-QDI KD7G. 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 Legend-QDI KD7G 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 Legend-QDI KuDoz 7G 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 Legend-QDI KuDoz 7G.

Lors de son achat un CD-ROM d'installation Legend-QDI est livré avec la carte mère de la série Legend-QDI KuDoz 7G.

1. Driver Install :

Avec cette option, il est possible d'installer les pilotes de la carte mère de la série Legend-QDI KuDoz 7G 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 |
|----|------------------|----|---------------|



- C. VGA Driver
- D. Network Driver(optional)
- E. Audio Driver(optional)
- F. DirectX

2. Accessory :

Applications contenues dans le dossier :

- A. Qflash.
- B. Symantec 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 Legend-QDI

Applications contenues dans le dossier :

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



Legend-QDI KD7G installazione mainboard (Italian):

1. Assicurarsi che la scatola sia completa: Legend-qdi KD7Gmainboard, cavo IDE e Floppy, jumpers, manuale dell'utente della mainboard Legend-QDI KD7G 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. Conettere la mainboard con: il cavo di alimentazione proveniente dall'alimentatore, il connettore dell'interuttore 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, aggangiare 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 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 LEGEND-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 |
| C. VGA Driver | D. Network Driver(optional) |
| E. Audio Driver(optional) | F. DirectX |



- A. Qflash
- B. Norton AntiVirus

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 6-Channel Audio

The motherboard provides support for 6-channel audio output, including 2 Front, 2 Rear, 1 Center and 1 Subwoofer channel. It allows the board to attach 6 speakers for better surround sound effect. The section will tell you how to use 6-channel audio function on the board.

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

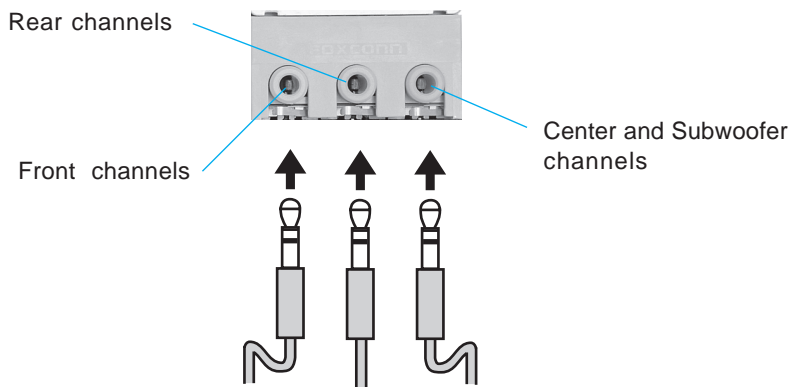
Installing the Audio Driver

You need to install the driver to function properly before you can get access to 6-channel audio operations.


1. Insert the companion CD into the CD-ROM drive. The setup screen will automatically appear.
2. Select the Sound Driver.

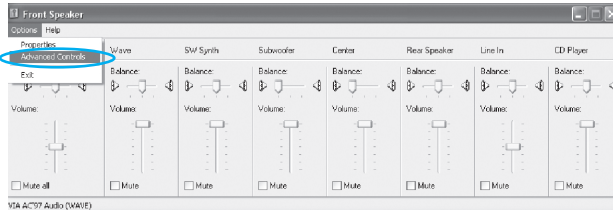
Attaching speakers

To perform multichannel audio operation, connect multiple speakers to the system.

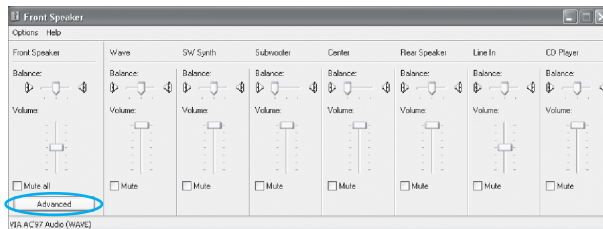


Selecting 6-Channel Setting

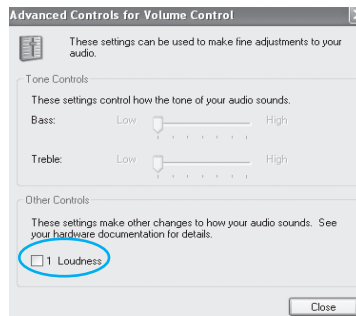
1. Click the Volume control icon  from the window tray at the bottom of the screen.
2. Click the “Options” and then “Advanced control”.



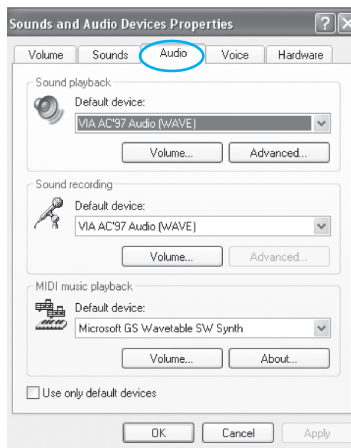
3. Then click the “Advanced”.



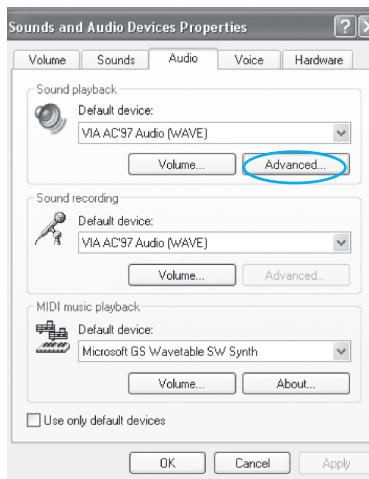
4. The following window appears, select the “1 Loudness”, then click “Close”.



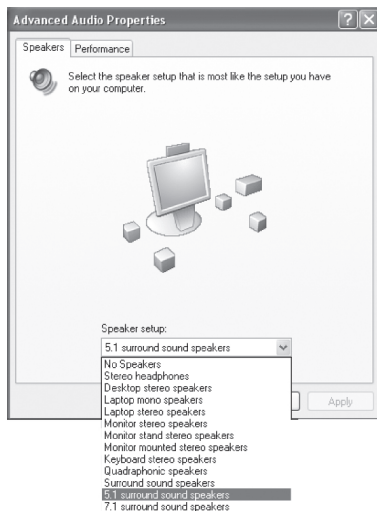
5. Open the Control panel of windows XP, select the Sound, Speech, and Audio Devices, and then Sounds and Audio Devices, the following window appears. Click the “Audio” tab.



6. Click the “Advanced”.



7. The following window appears, and select the “5.1 surround sound speaker”.



Board Layout of KuDoz 7G

This layout is just for your reference