

### **Item Checklist**

Completely check your package. If you discover damaged or missing items, contact your retailer.

- CenturieX 2 mainboard
- QDI CD 2000
- I/O shield
- 1 ATA66 IDE ribbon cable
- 1 floppy ribbon cable
- User' s manual

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# Declaration of conformity



**QUANTUM DESIGNS(HK) LTD.**

**5/F Somerset House, TaiKoo Place 979 Kings Road,  
Quarry Bay, Hong Kong**

declares that the product

**Mainboard  
CenturieX 2**

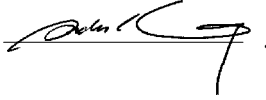
is in conformity with

(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 COMPUTER (NETHERLANDS) B. V. |
| QDI COMPUTER (FRANCE) SARL | QDI COMPUTER HANDELS GMBH        |
| QDI COMPUTER (ESPANA) S.A. | QDI COMPUTER (SWEDEN) AB         |

Signature :  . Place / Date : HONG KONG/2000

Printed Name : Anders Cheung Position/ Title : President

## Declaration of conformity

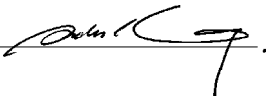


Trade Name: QDI Computer ( U . S . A . ) Inc.  
Model Name: CenturieX 2  
Responsible Party: QDI Computer ( U . S . A . ) Inc.  
Address: 41456 Christy Street  
Fremont, CA 94538  
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Equipment Classification: FCC Class B Subassembly  
Type of Product: Mainboard  
**Manufacturer: Quantum Designs (HK) Inc.**  
Address: 5/F, Somerset House, TaiKoo Place  
979 Kings 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.

Signature :  Date : 2000



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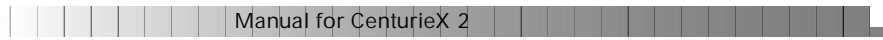
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## SpeedEasy Quick Setup

### Procedures :

1. Correctly insert the Intel®PeniumIII processor.
2. Plug in other configurations and restore the system.
3. Switch on power to the system and press the <Del> key to enter BIOS Setup.
4. Enter "CPU SpeedEasy Setup" menu to set up the CPU speed.

**Note: If you do not set the CPU speed, your system will run at the default setting ( 300MHz for processor with 100MHz host bus speed, 400MHz for processor with 133MHz host bus speed, for bus ratio locked processor, run its real speed.**

5. Save and exit BIOS Setup, your system will now boot successfully.



## CPU SpeedEasy Setup Menu

Select <CPU SpeedEasy Setup> item from the main menu and enter the sub-menu:

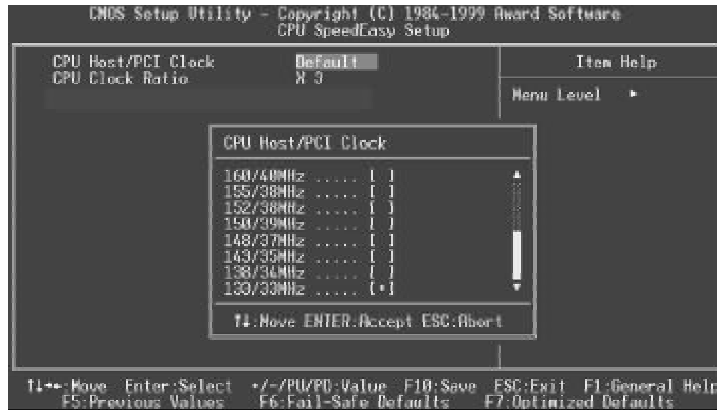


Figure - 1 CPU SpeedEasy Setup Menu

BIOS provides you with a set of basic values for your processor selection instead of the jumper settings. The processor speed can be manually selected on the “CPU SpeedEasy SETUP” menu screen.



### Warning:

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



## SpeedEasy Instalación rápida

### Procedimiento:

1. Introduzca correctamente el Intel® Penium III.
2. Finalize el proceso de ensamblaje de su equipo.
3. Presione la tecla <Supr> y encienda el sistema, para entrar en BIOS.
4. Entre al menu “CPU SpeedEasy Setup” para establecer la velocidad de su CPU.

**Nota: Si no establece la velocidad del CPU, su sistema funcionará a la velocidad minima por defecto (300MHz para CPU con velocidad de bus de 100MHz, 400MHz para CPU con velocidad de bus de 133MHz )**

5. Salve y salga de BIOS, luego su sistema arrancará a la velocidad por Ud. seleccionada.



## Menu del CPU SpeedEasy

Seleccione el ítem <CPU SpeedEasy Setup> desde el menú principal, y entre en el submenú:

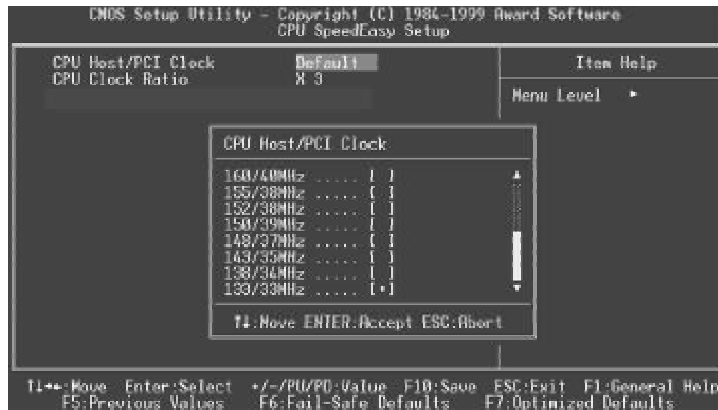


Figura-1 Menu del CPU SpeedEasy Setup

BIOS le proporcionará unos valores básicos para la elección de su CPU, en vez de tener que configurar jumpers. Ud. puede seleccionar manualmente la velocidad de CPU en el menú “CPU SpeedEasy Setup”.



### Aviso

No es recomendable seleccionar una frecuencia de trabajo superior a la a la cual esta diseñada su CPU. De otra manera, no seremos responsables de los daños que esto pudiera ocasionar.



## **Installation de la carte mère CenturieX 2**

1. Assurez-vous que votre ensemble est complet: carte mère, câbles IDE et FLOPPY, notice d' utilisation et CD-ROM d' installation.
2. Vérifiez que l' alimentation est débranchée et reliez-vous à la terre par une courroie à votre poignet. A défaut, maintenez le contact de vos deux mains avec un objet lui-même relié à la terre, ou une partie en métal de votre système.
3. Fixez la carte mère dans le boî tier grâce aux vis fournies avec celui-ci.
4. Si votre carte mère est munie de cavaliers, placez les en fonction des options que vous souhaitez utiliser: réglage de la fréquence du processeur si votre carte n' est pas SpeedEasy, fonction allumage par saisie du mot de passe. (voir le manuel, rubrique «configuration des cavaliers»)
5. Insérez le processeur dans son logement avec son ventilateur que vous brancherez au connecteur «CPUFAN».
6. Insérez la/les barrette(s) mémoire dans les slots DIMM.
7. Installez vos éventuelles cartes PCI et AMR dans les slots prévus à cet effet (voir page centrale du manuel).
8. Branchez vos périphériques IDE et FLOPPY sur les connecteurs prévus à cet effet grâce aux nappes fournies avec la carte. Vérifiez que le sens de branchement est correct (liseré rouge du câble sur la broche 1 du connecteur).
9. Reliez les câbles du boî tier aux connecteurs prévus à cet effet (Connecteur d' alimentation, LED de marche/arrêt, disque dur, haut-parleur. voir manuel pages 6 à 9). Refermez le boî tier.
10. Branchez les périphériques externes sur les sorties du fond de panier: clavier, souris PS/2, périphériques USB, moniteur, imprimante. (voir manuel pages 5-6)
11. Lorsque tous les éléments du système sont installés physiquement, rebranchez l' unité centrale.



### Installation du système.

1. Démarrez votre système en pressant le bouton «POWER».
2. Pressez la touche «Suppr» pour entrer dans le setup du BIOS.
3. Dans le menu «SpeedEasy CPU Setup», réglez la vitesse de votre processeur (ATTENTION: il est recommandé de ne pas sélectionner une fréquence supérieure à celle de votre processeur, nous déclinons toute responsabilité pour les dommages qui en résulteraient)
4. Effectuez les autres réglages du BIOS selon votre configuration (nous vous conseillons fortement de maintenir les réglages par défaut afin d'éviter toute manipulation hasardeuse pouvant résulter en un dysfonctionnement). Pour plus d'informations sur les fonctions du BIOS, vous pouvez consulter la version française du manuel sur le CD-ROM.
5. Pressez la touche F10 ou choisissez «Save and exit» pour enregistrer vos paramètres et relancer la machine.
6. Installez votre système d'exploitation
7. Après installation, assurez-vous qu'il ne subsiste aucun conflit ou périphérique inconnu dans votre système.
8. Installation des pilotes:

#### A - Installation des fichier INF pour le chipset Intel®820

Les fichiers INF pour le chipset Intel®820 contiennent des fichiers d'installation de périphériques Windows (\*.INF) qui indiquent au système d'exploitation comment configurer les composants du chipset pour un fonctionnement normal. Sous Windows 95/98, lancez \ChipDrv\Intel\Winnex\inf\Setup.exe pour l'installation. Référez-vous au fichier README.TXT dans le répertoire \ChipDrv\Intel\Winnex\inf\ pour plus d'informations.





### B. Installation des fichiers utilitaires INF pour le chipset Intel®820

- § Sous Windows 95/98, lancez `\ChipDrv\Intel\Winnex\inf utility\Setup.exe` pour l'installation. Référez-vous au fichier README.TXT dans le répertoire `\ChipDrv\Intel\Winnex\inf utility\` pour plus d'informations.

### C. Installation des pilotes son

- § Sous Windows 95, lancez `\DevDrv\Codec\ad1881\95\driver\Setup.exe` pour l'installation. Pour les fonctions WaveSynth MIDI sous Windows 95, `ich.inf` est inclus dans le répertoire `\DevDrv\Codec\ad1881\95\95synth` (placez vous sur ce fichier, cliquez avec le bouton droit de la souris et choisissez Installer).
- § Sous Windows 98, lancez `\DevDrv\Codec\ad1881\98\Setup.exe`.
- § Sous Windows NT 4.0, lancez `\DevDrv\Codec\ad1881\nt40\driver\Setup.exe` pour l'installation. Pour les fonctions WaveSynth MIDI sous Windows NT 4.0, référez-vous au fichier README.TXT dans le répertoire `\DevDrv\Codec\ad1881\nt40\MIDI`.

N'oubliez pas de redémarrer votre système pour que les changements soient pris en compte.

### Le menu SpeedEasy

- I. Insérez le processeur correctement.
- II. Connectez les autres éléments du système (voir Installation).
- III. Au démarrage du système, pressez la touche <Suppr> pour entrer dans le Bios
- IV. Entrez dans le menu «CPU SpeedEasy setup»

**Note: si vous ne déterminez pas la vitesse de votre unité centrale, votre système fonctionnera par défaut ( 200MHz pour les CPU avec une fréquence de Bus de 100MHz et 133MHz pour les CPU à 66MHz).**

- V. Sauvegardez et quittez le Bios.



---

**CMOS Setup Utility – Copyright©1984-1999 Award Software**

**SpeedEasy CPU Setup**

---

|                     |           |              |
|---------------------|-----------|--------------|
| CPU Host/ PCI Clock | : Default | Item Help    |
| CPU Clock Ratio     | : X 3     | Menu Level > |

---

Prévenir :

Le menu SpeedEasy vous fournit un ensemble de valeurs. Vous pouvez sélectionner manuellement la vitesse de CPU dans ce menu soit en mode «SpeedEasy» soit en mode «Jumper Emulation» (voir manuel).

**ATTENTION: Ne pas sélectionner une fréquence de fonctionnement du CPU supérieure à celle indiquée par le constructeur. Nous déclinons toute responsabilité pour tout dégât qui en résulterait.**



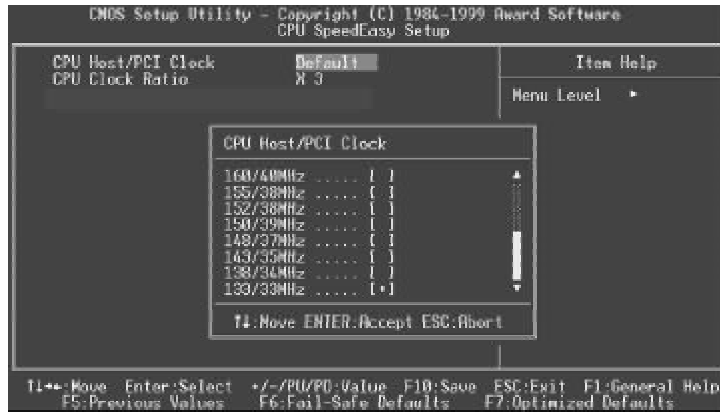






### SpeedEasy 0 Ñ ë À Æ É Ç ð ñ

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# Chapter 1

## Introduction

### Overview

The CenturieX 2 green mainboard utilizes the Intel®820 Chipset (Camino), providing a fully compatible, high performance and cost-effective PC/ATX platform. The software configurable AC' 97 audio and modem system give customers an advanced, multimedia solution at an extremely low price. It provides 100/133 MHz system bus support for all Intel Pentium®III FC-PGA processors. It also provides advanced features such as Wake-on-LAN, Wake-on-Modem and Keyboard Password Power-on 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. ManageEasy, our system management application is also supplied to enable remote monitoring and configuration of the system. It supports new technologies ATA/66, AGP 4X mode , which will improve system performance greatly.

### Key Features

#### Form factor

- ATX form factor of 305mm x 215mm.

#### Microprocessor

- Supports all Intel Pentium®III FC-PGA processors at 500E/533EB/550E/600E/600EB/650/667/700/733/750/800/800EB MHz and future processors
- Supports later processors Cyrix-III.
- Supports 100/133MHz host bus speed
- CPU core frequency = Bus speed x3, x3.5, x4, x4.5, x5, x5.5, x6, x6.5, x7, x7.5, x8.
- On-board 1.5V, 2.5V regulators and 3.3V switching power supply.

#### System memory

- Provides three 168 pin 3.3V PC100 SDRAM sockets.
- Supports Suspend to RAM.

#### Onboard IDE

- Supports two PCI PIO and Bus Master IDE ports.
- Two fast IDE interfaces supporting four IDE devices including IDE hard disks and CD-ROM drives.
- Supports up to PIO Mode 4 timing.
- Supports "Ultra ATA/33" Synchronous DMA modes, transferring data up to 33MB/s.
- Supports "Ultra ATA/66" Synchronous DMA modes, transferring data up to 66MB/s.
- Integrated 16x32bit buffer for IDE PCI Burst Transfers.



### Onboard I/O

- Winbond W83627HF LPC I/O chip.
- One floppy port supporting up to two 3.5" or 5.25" floppy drives with 360K/720K/1.2M/1.44M/2.88M format.
- Two high speed 16550 compatible UART (COM1/COM2/COM3/COM4 selective) with 16-byte send/receive FIFOs.
- USB host interface supporting 2 USB ports.
- One joystick port.
- Infrared interface.
- All I/O ports can be enabled/disabled in the BIOS setup.

### Onboard Sound

- Intel AC'97 2.1 Specification Compliant.
- 18bit stereo codec.
- Multiple stereo input mixer.
- Mono and stereo volume control.
- Provides onboard Line-in Jack, Microphone-in Jack, Headphone-out Jack and MIDI/Joystick Connector.
- Provides onboard modem connector.

### AGPSLOT

- Supports AGP 4X mode & AGP 2.0 compliant.

### Advanced features

- PCI 2.2 Specification Compliant.
- Provides Trend ChipAwayVirus® On Guard.
- Supports Windows 95/98 software power-down.
- Supports Wake-on-LAN, Wake-on-Modem and PS2 mouse Wake-Up.
- Supports Keyboard Password Power-on function.
- Onboard I/O Winbond 83627HF supports system monitoring (monitors CPU and system temperatures, system voltages, chassis intrusion and fan speed).
- Supports management applications such as LDCM (LANDesk® Client Manager) or QDI's ManageEasy.
- System status resumes after AC power failure.
- Supports QDI's innovation such as SpeedEasy.
- Protects the system BIOS from being attacked by severe virus such as CIH.
- Supports Suspend to RAM.

### BIOS

- Licensed advanced AWARD BIOS, supports flash ROM with 4Mb memory size, 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 four ACPI power states: Full-on, Stop Grant, Suspend to RAM, and Soft-off.

### Expansion slots

- 5 PCI slots.
- 1 AMR.
- 1 AGP.

\*\*\* **Note:** Please check the chipset driver in the CD-ROM disk we offered to you.

## Introduction to New Features

### FWH(Firmware Hub) Protection

The BIOS of the mainboard is inside the FWH. Some 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.

Here are two choices which implements this function.

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

Refer to page 25 for detailed information on jumper setting, and page 34 for related BIOS setting.

### Suspend to RAM

Suspend to RAM is a cost-effective, optimal implementation of the Advanced Configuration and Power Interface (ACPI) 1.0 specification, which makes a PC's power consumption drop to the lowest possible level and enables quick wakeup. When the system is in Suspend-to-RAM status, the system context is maintained in system memory, the system consumes only a small fraction of the power used for full operation. Instead of shutting down the system to save power when not in use and then having to reboot later, Suspend-to-RAM solution enables the system to quickly wake up, restoring all applications and features, enabling operation in a few seconds.

To implement this function, the following requirements are essential:

1. Power supply requirements: The current of 5VSB line of the power supply should be more than 0.75A.
2. The BIOS option "ACPI function" should be enabled, and "ACPI Suspend Type" should be set as S3 in AWARD BIOS CMOS setup. Refer to page 28 for detailed information.
3. An ACPI-enabled operating system such as Windows 98 is needed.

Navigate to the CD-ROM drive from the MS-DOS Command Prompt and enter the following from the Win98 directory on the CD:

```
D:\SETUP /P J
```

(This manual assumes that your CD-ROM device driver letter is D:)  
Windows 98 will be installed with ACPI enabled.



4. Three ways to enter Suspend-to-RAM status under ACPI-enabled Windows 98:
  - Click Start -> Shut down -> Standby to enable the system to enter Suspend-to-RAM status.
  - Click Start -> Setup -> Control Panel -> Power Management -> Advanced and choose Standby item, the system will enter Suspend-to-RAM status when you press power button.
  - From Power Management Properties in Control Panel, set the latency time in System Standby, the system will enter Suspend-to-RAM status when time out.

The same ways used to power up the system can be used to wake up the system from Suspend-to-RAM status. For example, pushing the power button, through the Wake-on-LAN, Wake-on-Modem function or RTC Alarm. If the keyboard password power-on function is enabled, the keyboard password should be used to wake up the system instead of pushing the power button.

#### **Ultra ATA/66**

According to the previous ATA/IDE hard drive data transfer protocol, the signaling way to send data was in synchronous strobe mode by using the rising edge of the strobe signal. The Ultra ATA/33 protocol doubles the burst transfer rate from 16.6MB/s to 33.3MB/s, by using both the rising and falling edges of the strobe signal, this time Ultra ATA/66 doubles the Ultra ATA burst transfer rate once again (from 33.3MB/s to 66.6MB/s) by reducing setup times and increasing the strobe rate. The faster strobe rate increases EMI, which cannot be eliminated by the standard 40-pin cable used by ATA and Ultra ATA. To eliminate this increase in EMI, a new 40-pin, 80-conductor cable is needed. This cable adds 40 additional ground lines between each of the original 40 ground and signal lines. The additional 40 lines help shield the signal from EMI, reduce crosstalk and improve signal integrity.

Ultra ATA/33 introduced CRC (Cyclical Redundancy Check), a new feature of IDE that provides data integrity and reliability. Ultra ATA/66 uses the same process. The CRC value is calculated by both the host and the hard drive. After the host-request data is sent, the host sends its CRC to the hard drive, and the hard drive compares it to its own CRC value. If the hard drive reports errors to the host, then the host retries the command containing the CRC error.

Ultra ATA/66 technology increases both performance and data integrity. However there are basically five requirements for your system to run in Ultra ATA/66 mode:

1. The system board must have a special Ultra ATA/66 detect circuit, such as CenturieX 2 mainboard.
2. The system BIOS must also support Ultra ATA/66.
3. The operating system must be capable of DMA transfers. Win95 (OSR2) and Win98 are capable.
4. An Ultra ATA/66 capable, 40-pin, 80-conductor cable is required.
5. Ultra ATA/66 compatible IDE device such as a hard drive or CD-ROM drive.



## Chapter 2

### Installation Instructions

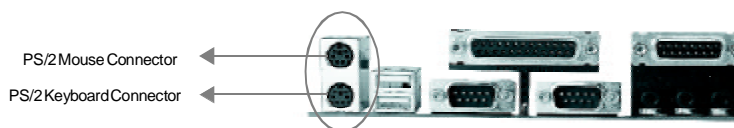
This section covers External Connectors and Jumper Settings. Refer to the mainboard layout chart for locations of all jumpers, external connectors, slots and I/O ports. Furthermore, this section lists all necessary connector pin assignments for your reference. The particular state of the jumpers, connectors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

**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.**

#### External Connectors

##### PS/2 Keyboard Connector, PS/2 Mouse Connector

PS/2 Keyboard Connector, PS/2 Mouse Connector



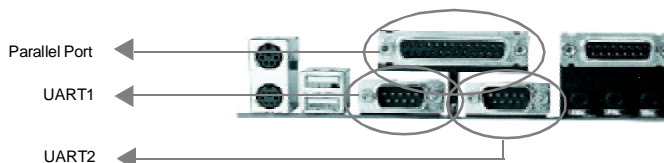
##### USB1, USB2

USB1, USB2



##### Parallel Port, UART1, UART2

Parallel Port, UART1, UART2

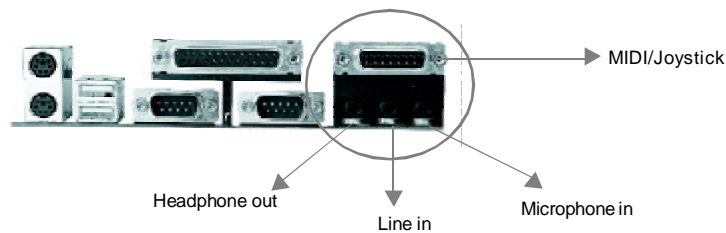




### Line-in jack, Microphone-in jack, Headphone-out jack and MIDI/Joystick connector

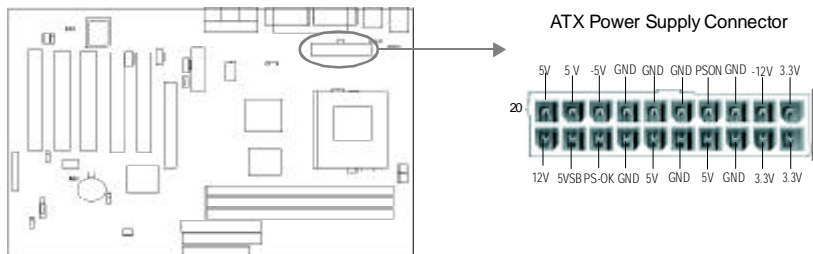
The Line-in jack can be connected to devices such as a cassette or minidisc player for playback or recording. The Microphone-in jack can be connected to a microphone for voice input. The Headphone-out jack allows you to connect speakers or headphones for audio output from the internal amplifier.

The MIDI/Joystick connector allows you to connect a game joystick or a MIDI device.



### ATX Power Supply Connector & Power Switch (POWER)

Be sure to connect the power supply plug to this connector in its proper orientation. The power switch (POWER) 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 Secs” 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 (HDLED)

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



### Reset Switch (RESET)

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

### Speaker Connector (SPEAKER)

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

### Power LED Connector (PWRLED)

The power LED has four status. When the system is in power up status, the LED is on. When the system is in suspend status, the LED is blink. When the system is in Suspend to RAM, the LED is off. When the system is in Soft-Off status, the LED is off. The connector has an orientation.

### ACPI LED Connector (ACPI\_LED)(Reserved)

The ACPI LED is double-color lights with three pins. Pin1&Pin2 drive different color lights. If Pin1 drives orange light, Pin2 drives green light, the following status will come out. When the system is in power up status, the LED is green on. When the system is in suspend status, the LED is green blink. When the system is in suspend to RAM status, the LED is orange on. When the system is in soft-off status, the LED is off.

### GREEN LED Connector (GREEN\_LED)

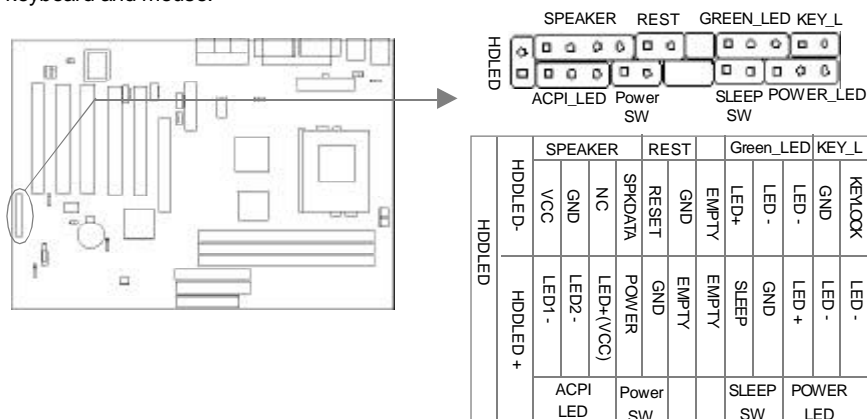
The GREEN LED has four status. When the system is in three status (including power up, suspend, soft-off), the LED is off. When the system is in suspend to RAM status, the LED is on.

### Hardware Green Connector (SLEEP)

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

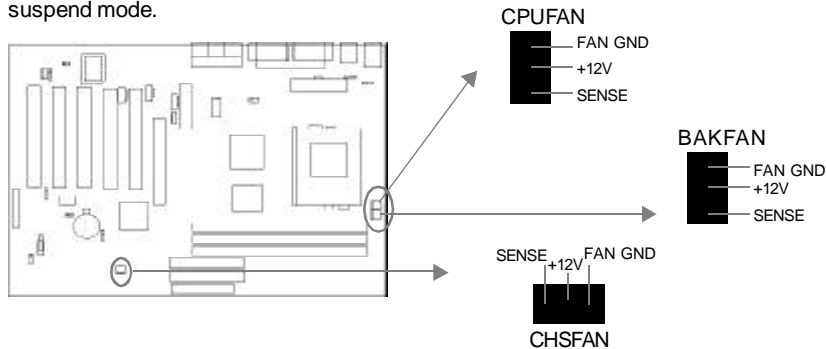
### Key-Lock Connector (KEY\_L)

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



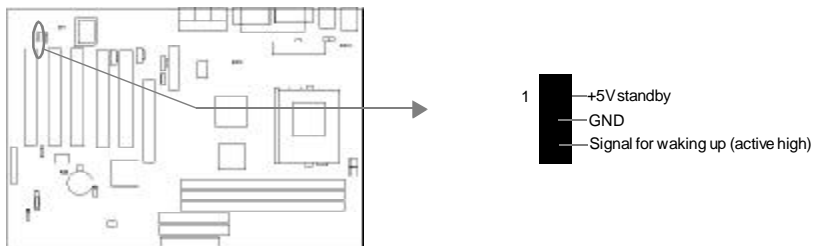
### Fan Connector (CPUFAN, BAKFAN, CHSFAN)

The fan speed of these three fans can be detected and viewed in "PC Health" section of the BIOS. These three fans will be automatically turned off after the system enters suspend mode.



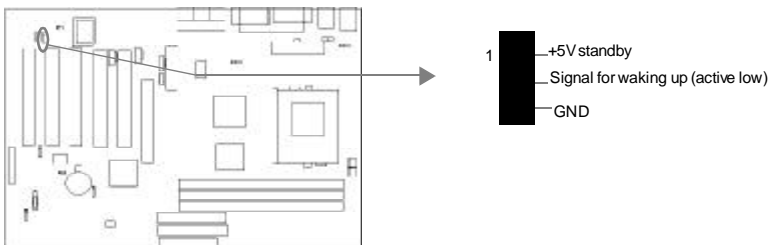
### Wake-Up On LAN (WOL)

Through the Wake-Up On LAN function, a wake event occurring from the network can wake up the system. If this function is to be used, please be sure an ATX 2.01 power supply of which 5VSB line is capable of delivering 720mA, and a LAN adapter which supports this function is used. Then connect this header to the relevant connector on the LAN adapter, set "Power on by LAN/Ring" as Enabled in the "POWER MANAGEMENT SETUP" section of the BIOS. Save & exit, then boot the operating system once to make sure this function takes effect.



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

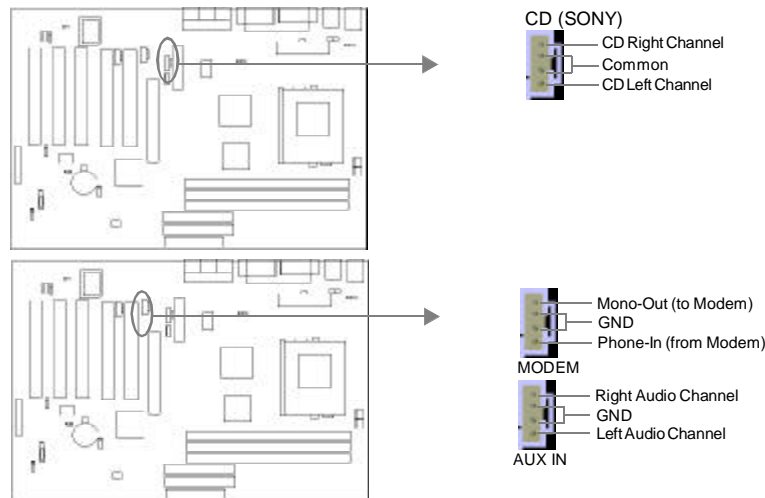
Through the Wake-Up On Internal Modem function, the system which is in the power-off status can be powered on by a ring signal received from the internal modem. If this function is to be used, be sure an internal modem card which supports this function is used. Then connect this header to the relevant connector on the modem card, set "Wake-Up by LAN/Ring" to Enabled in the "POWER MANAGEMENT SETUP" section of the BIOS. Save & exit, then boot the operating system once to make sure this function takes effect.





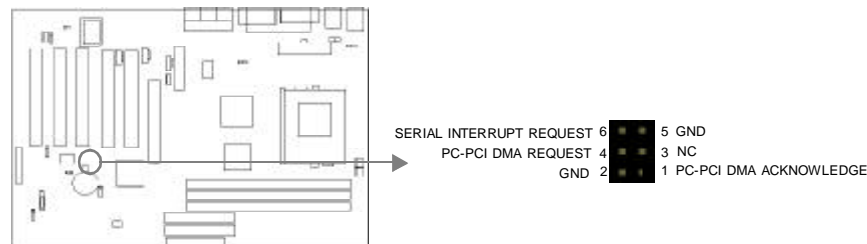
### Internal Audio Connector (AUX, CD, MODEM)

AUX and CD connectors allow you to receive stereo audio input from such sound sources as a CD-ROM, TV tuner, or MPEG card. The MODEM connector allows the onboard audio to interface with a voice modem card with a similar connector. It also allows the sharing of mono\_in (such as a phone) and mono\_out (such as a speaker) between the onboard audio and the voice modem card.



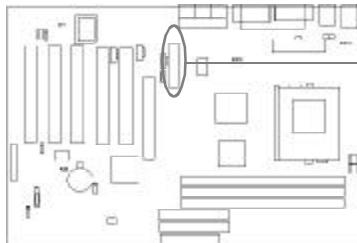
### Sound Connector (PC-PCI)

This connector provides a bridge between the mainboard and PCI sound card to deliver sound compatibility under DOS real-mode environment.



### Audio/Modem Riser Interface Connector (AMR)

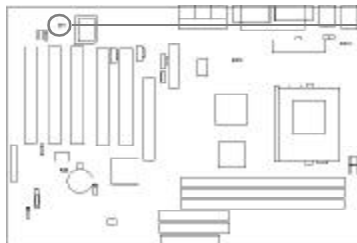
The AMR Interface Connector is the interface between the mainboard and the Audio/Modem Riser card. The connector provides all necessary signals which supports several different configurations of audio and modem in the system, such as audio and modem on the Riser, audio on the mainboard and modem on the Riser, or no audio with modem on the Riser. CenturieX 1 mainboard provides you with audio onboard solution, onboard audio can be enabled/disabled. Either AMR (Audio/Modem Riser) card or MR (Modem Riser) card can be used on this system. If you choose to use the audio on AMR card, the onboard audio can be set as disabled. This software configurable AC' 97 audio and modem system gives customers an advanced, multimedia solution at an extremely low price.



AMR Interface Connector

### Chassis Security Switch (CHSSEC)




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



### Expansion Slots & I/O Ports description

| Slot / Port | Description        |
|-------------|--------------------|
| PCI1        | First PCI slot.    |
| PCI2        | Second PCI slot.   |
| PCI3        | Third PCI slot.    |
| PCI4        | Fourth PCI slot.   |
| PCI5        | Fifth PCI slot.    |
| DIMM1       | First DIMM port    |
| DIMM2       | Second DIMM port   |
| DIMM3       | Third DIMM port.   |
| AMR         | AMR slot.          |
| AGP         | AGP slot.          |
| FLOPPY      | Floppy Drive Port. |

### Jumper Settings

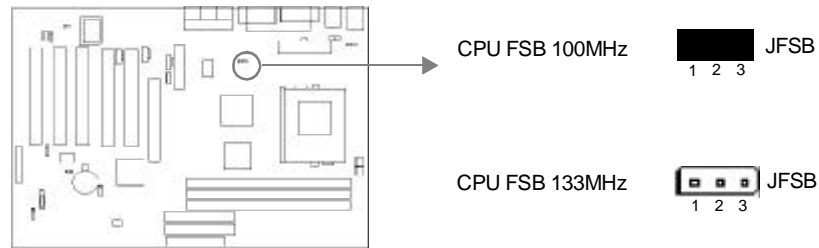
Jumpers are located on the mainboard, they represent, clear CMOS jumper JCC, enable keyboard password power-on function jumper JKB, and enable/disable onboard audio jumper JSD etc. Pin 1 for all jumpers are located on the side with a thick white line ( Pin1 →  ), referring to the mainboard's silkscreen. Jumpers with three pins will be shown as  to represent pin1 & pin2 connected and  to represent pin2 & pin3 connected.





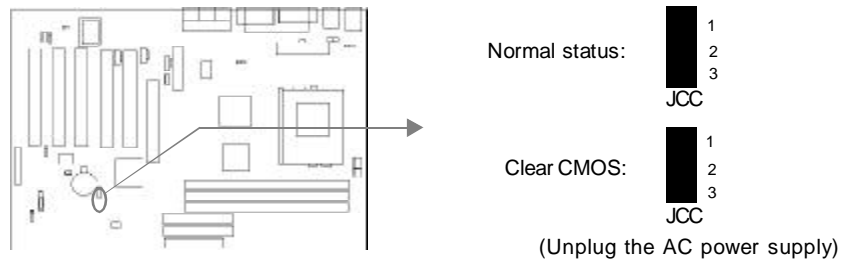
### FSB Frequency Selection(JFSB)

The jumper labeled JFSB is located on the mainboard providing users with FSB frequency selection. The host bus speed can be set as 100MHz with pin1 and pin2 closed, and 133MHz with JFSB open. For more FSB frequency selection, you could check it in AWARD BIOS CMOS Setup and set the proper frequency that you need.



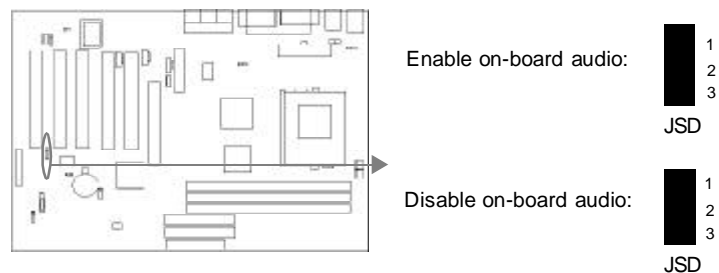
### Clear CMOS (JCC)

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



### Enable/Disable on-board audio CODEC(JSD)

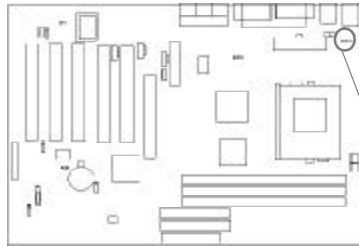
If you want to use the on-board audio, set JSD with pin2 & pin3 closed (default). Otherwise, set JSD with pin1 & pin2 closed for disabling this function.





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

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



Disable:  JKB  
1 2 3

Enable:  JKB  
1 2 3

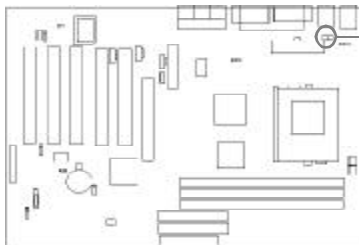
Furthermore in order to implement this function, set “POWER ON Function” to Password and enter the keyboard power-on password in the “INTEGRATED PERIPHERALS” section of the BIOS. Save and exit, then power off your system. In this case, the power button’s power-on function has been disabled.

**Note:**

1. If using this function, 5VSB line of the power supply should be capable of delivering enough current (eg. 200mA) for all the devices connected to the keyboard port, if not, you will be unable to power up the system using the keyboard.
2. If you set JKB with pin2 & pin3 closed, set “POWER ON Function” to BUTTON ONLY, don’t set it to Password, or you’ll be unable to power up your system by the keyboard or the power button.
3. If you encounter the above problems, clear CMOS and set the jumper and BIOS option again.

### Enable USB Device Wake-up Function (JUSB)

The mainboard provides the advanced USB device wake-up function. The system can be waken up from its power saving including ACPI S3 by activating USB device. Before using this function, set JUSB with pin1 & pin2 closed. Otherwise, set JUSB with pin2 & pin3 closed for disabling in BIOS



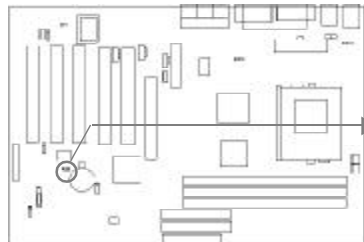
Disable:  JUSB  
3 2 1


Enable:  JUSB  
3 2 1



### FWH Protection Jumper (JAV)

The BIOS of the mainboard is inside the FWH. If the jumper JAV 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.



Flash Write Disabled  JAV

Flash Write Enabled  JAV

Setting the jumper JAV as open (default), meanwhile disabling the "Flash Write Protect" item in AWARD BIOS CMOS Setup, allows you to flash the BIOS to the flash ROM in FWH. 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 in FWH. Whenever the system hardware configuration is changed, DMI information will be updated automatically. However, setting jumper JAV as closed makes flashing BIOS and updating DMI information impossible.

### Installation of All Drivers

A QDI Driver CD 2000 is supplied with this mainboard, all drivers can be installed from this CD-ROM. Before installing the drivers, check the system requirements such as the enough system memory (at least 32MB for Windows 95/98 system or 64MB for Windows 2000 system) and enough disk space. Windows 95 or Windows 98 must be fully installed and running on the system. All running applications should be closed before installing these drivers.

#### Features of this CD-ROM:

##### - DemoShield Software

Utilizing DemoShield software to develop it, which provide you a very new, easier-to-use and more intuitive user interface.

##### - Point-and-Click

when using this CD-ROM, just point to the option you required and click it, then the driver or the software that you need will be automatically installed.

##### - Intelligently Recognition

Automatically recognizes the hardware, then installs the necessary drivers for your onboard components to work properly.



Please refer to page 45 to get more detailed information of the contents contained in this CD-ROM.

### **Memory configuration**

This motherboard provides three PC100 SDRAM DIMM sockets to support a flexible memory size ranging from 32MB to 1GB.

- 3.3V, 168-pin modules with gold-plated contacts
- 64M bit and 128M bit SDRAM component density.
- Unbuffered single or double-sided DIMMs.
- Non-ECC DIMMs (ECC DIMMs can be used and will operate in non-ECC mode only).
- 3.3V memory (only)
- Suspend to RAM (STR).
- Only supports Memory with Serial Presence Detect (SPD) EEPROM.

The following table determines the some ways of arranging RIMM memory.

| DIMM 1          | DIMM 2 | DIMM 3 |
|-----------------|--------|--------|
| DS, SS<br>Empty | DS, SS | Empty  |
|                 | SS     | SS     |
|                 | Empty  | DS, SS |

Note: DS defines double-sided DIMMs

SS defines single-sided DIMMs



## Chapter 3

### BIOS Description

#### 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 after our current mainboard, you may therefore upgrade the BIOS.

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. Download AWDFLASH.EXE (version  $\geq 7.36$ ) from our website (<http://www.qdigrp.com>), copy it onto your new bootable diskette.

**Update the CenturieX mainboard BIOS, make sure AWDFLASH.EXE's version must be 7.36 or later.**

3. Download the updated BIOS file from the Website. 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
```

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 /?



## AWARD BIOS Description

### Entering Setup

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

#### Press <Del> 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 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.

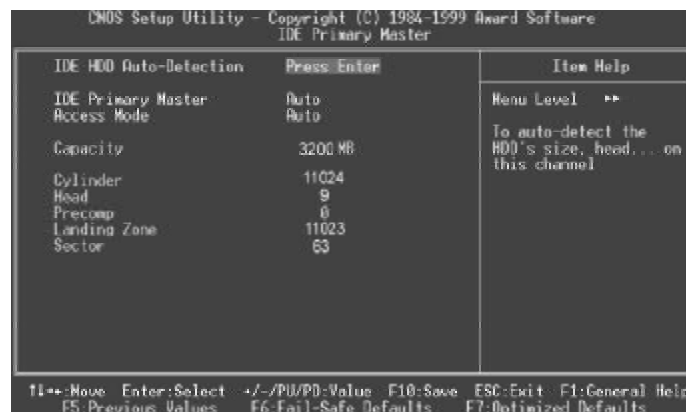


Figure-2-1 IDE Primary Master Setup Menu

## 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 User. 'None' means no HDD is installed or set; 'Auto' means the system can auto-detect the hard disk when booting up; by choosing 'user', 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.

### **NORMAL**

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 NORMAL 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. The maximum HDD size supported by LBA mode is 8.4 Gigabytes.

### **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 equals the sum of the above memory.   |



### CPU SpeedEasy Setup

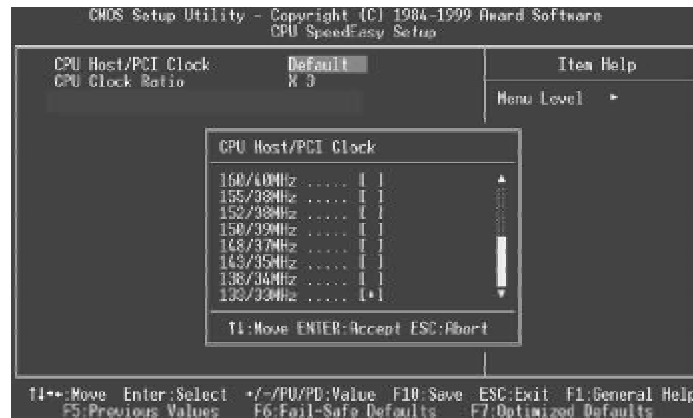


Figure-3 CPU SpeedEasy Setup Menu

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

| <u>Item</u>          | <u>Option</u>  | <u>Description</u>  |
|----------------------|----------------|---|
| ● CPU Host/PCI Clock | <i>Default</i> | BIOS can automatically detect the system FSB and PCI clock speed , only run at actual speed.  |
|                      | 100/33MHz      | These items is only for users who understand the CPU and PCI clock parameters, i.e. system bus frequency " 100MHz" , PCI clock frequency " 33MHz".              |
|                      | .              |   |
|                      | .              |   |
|                      | 150/37MHz      | <b>Warning: If Frequencies are set above 133MHz exceed the specifications for the onboard Intel chipset, we will not be responsible for any damages caused.</b> |
| ● CPU Clock Ratio    | 3              | This item is for unlocked processors only. If your processor' s frequency multiple is detected locked, it' s invalid to set frequency multiple.                 |
|                      | 3.5            |   |
|                      | .              |   |
|                      | .              |   |
|                      | 8              |   |



## 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>  | Guards against boot virus threats early in the boot cycle, before they have a chance to load into your system, ensuring your computer boots to a clean operating system. |
|  | <i>Disabled</i> | Disables this function.  |
| ● CPU internal Cache                                     | <i>Enabled</i>  | Enabling this option speeds up memory access. However, it depends on CPU/chipset design.   |
|  | <i>Disabled</i> | Disables this function.  |
| ● External Cache   | <i>Enabled</i>  | Enables external L2 cache. This allows better performance.   |
|  | <i>Disabled</i> | Disables external cache.   |
| ● CPU L2 Cache ECC Checking                              | <i>Enabled</i>  | Enables CPU L2 Cache ECC (Error Checking and Correction) function.   |
|  | <i>Disabled</i> | Disables CPU L2 Cache ECC function.  |
| ● Processor Number Feature                               | <i>Enabled</i>  | Pentium® III processor number can be readable.   |
|  | <i>Disabled</i> | Pentium® III processor number can be unreadable.   |
| ● Quick Power On Self Test                               | <i>Enabled</i>  | Allows the system to skip certain tests while booting. This will decrease the time needed to boot the system.  |
|  | <i>Disabled</i> | Normal POST.   |
| ● First (Second, Third) Boot Device<br>Boot Other Device | <i>Disabled</i> | Select Your Boot Device Priority. It could be Disabled, Floppy, LS/ZIP, HDD-0, HDD-1, HDD-2, HDD-3, SCSI, CDROM, LAN.  |
|  | <i>Disabled</i> | Select Your Boot Device Priority. It could be Disabled, Floppy, LS/ZIP, HDD-0, HDD-1, HDD-2, HDD-3, SCSI, CDROM, LAN.  |
|  | <i>Floppy</i>   | Select Your Boot Device Priority. It could be Disabled, Floppy, LS/ZIP, HDD-0, HDD-1, HDD-2, HDD-3, SCSI, CDROM, LAN.  |



|                              |                                   |   |
|------------------------------|-----------------------------------|---|
| • Swap Floppy Drive          | <i>Enabled</i><br><i>Disabled</i> | If the system has two floppy drives, choose enable to assign physical drive B to logical drive A and vice-versa.                          |
| • Boot Up Floppy Seek        | <i>Enabled</i><br><i>Disabled</i> | Tests floppy drives to determine whether they have 40 or 80 tracks.   |
| • Boot Up NumLock Status     | <i>On</i><br><i>Off</i>           | Select power on state for NumLock.  |
| • Gate A20 Option            | <i>Normal</i><br><i>Fast</i>      | Lets chipset control GateA20 and Normal - a pin in the keyboard controller controls GateA20. Default is Fast.                             |
| • Typematic Rate Setting     | <i>Enabled</i><br><i>Disabled</i> | Keystrokes repeat at a rate determined by the keyboard controller - when enabled, the typematic rate and typematic delay can be selected. |
| • Typematic Rate (chars/sec) | <i>6-30</i>                       | The rate at which character repeats when you hold down a key.   |
| • Typematic Delay (Msec)     | <i>250-1000</i>                   | The delay before keystrokes begin to repeat.  |
| • Security Option            | <i>Setup</i><br><i>System</i>     | Select whether the password is required every time the system boots or only when you enter setup.   |
| • OS Select For DRAM>64MB    | <i>Non-OS2</i><br><i>OS2</i>      | Select OS2 only if you are running OS/2 operating system with more than 64MB of RAM.  |
| • Flash Write Protect        | <i>Enabled</i><br><i>Disabled</i> | Flash program is allowed.<br>Does not allow flash program.  |
| • Report NO FDD for WIN 95   | <i>Yes</i><br><i>No</i>           | Reports NO Floppy Disk Drive for WIN 95 to release IRQ6.<br>Does not report No Floppy Disk Drive for WIN 95.                              |



## Advanced Chipset Features Setup

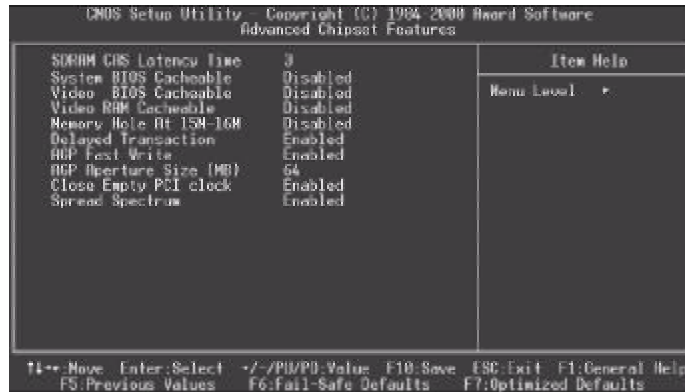


Figure-5 Advanced Chipset Features Menu

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

| <u>Item</u>              | <u>Option</u>                     | <u>Description</u>   |
|--------------------------|-----------------------------------|--|
| • SDRAM CAS Latency Time | <i>Auto</i><br>3<br>2             | Contains the information for SDRAM initialization procedure.   |
| • System BIOS Cacheable  | <i>Enabled</i><br><i>Disabled</i> | Besides conventional memory, the system BIOS area is also cacheable.<br>The system BIOS area is not cacheable. |
| • Video BIOS Cacheable   | <i>Enabled</i><br><i>Disabled</i> | Besides conventional memory, the video BIOS area is also cacheable.<br>the Video BIOS area is not cacheable.   |
| • Video RAM Cacheable    | <i>Enabled</i><br><i>Disabled</i> | Besides conventional memory, the video RAM area is also cacheable.<br>the Video RAM area is not cacheable.     |
| • Memory hole at 15M-16M | <i>Enabled</i><br><i>Disabled</i> | Memory hole at 15-16M is reserved.<br>Does not set this memory hole.   |
| • Delayed Transaction    | <i>Enabled</i><br><i>Disabled</i> | Default setting is suggested.  |
| • AGP Fast Write         | <i>Enabled</i><br><i>Disabled</i> | Enable AGP Fast Write.<br>Disable AGP Fast Write.  |
| • AGP Aperture Size(MB)  | 4-256                             | Sets the effective size of the Graphics Aperture to be used in the particular PAC Configuration.               |
| • Close Empty PCI Clock  | <i>Enabled</i><br><i>Disabled</i> | Closes empty PCI clock to reduce EMI.<br>Does not close empty PCI clock.                                       |
| • Spread Spectrum        | <i>Enabled</i><br><i>Disabled</i> | Enables Spread Spectrum to reduce EMI.<br>Disables Spread Spectrum.  |



## 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>Disabled</i>     | Invalidates ACPI function.   |
|                        | <i>Enabled</i>      | Validates ACPI function.   |
| • ACPI Suspend Type    | <i>S1</i>           | Selects the ACPI suspend type.   |
|                        | <i>S3</i>           |  |
| • Power Management     | <i>Disabled</i>     | Global Power Management (PM) will be disabled.   |
|                        | <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.   |
| • Video Off Method     | <i>Blank Screen</i> | The system BIOS will only blank off the screen when disabling video.   |
|                        | <i>V / H SYNC +</i> | In addition to Blank Screen, BIOS will also turn off the V-SYNC & H - SYNC signals from VGA card to monitor.   |
|                        | <i>DPMS</i>         | This function is enabled only for VGA cards supporting DPMS.<br><b>Note: When the green monitor does not detect the V/H-SYNC signals, the electron gun will be turned off.</b> |
| • Video Off In Suspend | <i>Yes</i>          | The system will disable video when entering suspend mode.  |
| • Video Off In Suspend | <i>Yes</i>          | The system will disable video when entering suspend mode.  |
|                        | <i>No</i>           | Does not turn off video when entering suspend mode.  |



|   |  |   |
|---|--|---|
| • Suspend Type                          | <i>Stop Grant<br/>PwrOn<br/>Suspend</i>  | Selects the Suspend type.   |
| • MODEM Use IRQ                         | <i>3, 5, 7, 9, 10,<br/>11 NA</i>   | Special wake-up event for Modem.  |
| • Suspend Mode                          | <i>Disabled<br/>Min ~ 1Hr</i>  | The system never enters Suspend mode by timer. Defines the continuous idle time before the system enters Suspend mode. If any items defined in "PM Events" are on and activated, the system will be woken up. |
| • HDD Power Down                        | <i>Disabled<br/>1 - 15 Min</i>   | HDD's motor will not be off by timer. Defines the continuous HDD idle time before the HDD enters power saving mode (motor off).   |
| • Soft-Off by PWR-BTTN                  | <i>Instant-Off<br/>Delay 4 secs</i>  | The system will immediately power off once the power button is pressed.<br>The system will power off when power button is pressed for 4 seconds.  |
| • Wake-Up by PCI card                   | <i>Enabled</i>   | Allows the system to be woken up by PCI card. Does not allow the system to be powered on by PCI card.   |
| • Power on by LAN/Ring                  | <i>Enabled</i>   | Allows the system to be powered on when a Ring indicator signal comes up to UART1 or UART2 from external modem (to LAN Wake-up Header from LAN adapter or to modem Ring on Header from internal modem card).  |
| • USB KB Wake-up From S3                | <i>Disabled<br/>Enabled</i>  | Does not allow Ring/LAN wake up.<br>System can be woken up by USB Keyboard from ACPI S3 type. Please make sure JUSB jumper is set as Enabled.   |
| • CPU Thermal-Throttling                | <i>Disabled</i>  | Does not allow system can be woken up by USB Keyboard from ACPI S3 type.  |
| • Resume by Alarm                       | <i>12.5%, 25%,<br/>50%, 37.5%,<br/>62.5%, 75%,<br/>87.5%</i><br><i>Enabled</i> | Selects the duty cycle of the STPCLK# signal, slowing down the CPU speed when the system enters green mode.<br>RTC alarm can be used to generate a wake-up event to power up the system.                      |
| • Primary IDE 0/1,<br>Secondary IDE 0/1 | <i>Disabled<br/>Enabled<br/>Disabled</i>                                       | RTC has no alarm function.<br>Reloads global timer, when there's an IDE event.  |
| • FDD/COM/LPT Port                      | <i>Disabled<br/>Enabled<br/>Disabled</i>                                       | Does not reload global timer.<br>Reloads global timer, when there's a FDD/COM/LPT event.<br>Does not reload global timer.   |



- PCI IRQ [ A - D ]# *Enabled* Reloads global timer, when there' s an PCI event.  
*Disabled* Does not reload global timer.

### 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>   |
|----------------------------|-------------------|--|
| • Reset Configuration Data | <i>Enabled</i>    | Default is Disabled. Select Enabled to reset Extended System Configuration Data ESCD when you exit Setup, if you have installed a new add-on and the system reconfiguration has caused serious conflicts preventing the OS from booting. |
|                            | <i>Disabled</i>   | Disables the configuration data function.  |
| • Resources Controlled By  | <i>Auto(ESCD)</i> | BIOS can automatically configure all boot and Plug and Play compatible devices. If you choose Auto, you cannot select IRQ DMA and memory base address fields, because BIOS automatically assigns them.                                   |
|                            | <i>Manual</i>     |  |





## 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>  |
|--|-----------------------------------|---|
| • On-Chip Primary/ Secondary PCI IDE       | <i>Enabled</i><br><i>Disabled</i> | On-Chip Primary/Secondary PCI IDE is enabled.<br>On-Chip Primary/Secondary PCI IDE is disabled.                       |
| • IDE Primary/ Secondary Master/Slave PIO  | <i>Mode 0 - 4</i><br><i>Auto</i>  | Defines the IDE primary/secondary master/ slave PIO mode.<br>The IDE PIO mode is defined by auto -detection.          |
| • IDE Primary/ Secondary Master/Slave UDMA | <i>Auto</i><br><i>Disabled</i>    | Ultra DMA mode will be enabled if an Ultra DMA device is detected.<br>Disables this function.                         |
| • USB Controller                           | <i>Enabled</i><br><i>Disabled</i> | Enables onchip USB controller.<br>Disables onchip USB controller.   |
| • USB Keyboard Support                     | <i>Enabled</i><br><i>Disabled</i> | USB keyboard support is enabled.<br>USB keyboard support is disabled.   |
| • Init Display First                       | <i>PCI Slot</i><br><i>Onboard</i> | Initializes the PCI VGA first.<br>Initializes the AGP first. For PCI VGA or AGP, the one initialized first functions. |
| • AC97 Audio                               | <i>Enabled</i><br><i>Disabled</i> | Enables the AC97 Audio onboard.<br>Disables the AC97 Audio onboard.   |
| • AC97 Modem                               | <i>Enabled</i><br><i>Disabled</i> | Enables the AC97 Modem onboard.<br>Disables the AC97 Modem onboard.   |
| • IDE HDD Block Mode                       | <i>Enabled</i><br><i>Disabled</i> | Allows IDE HDD to read/write several sectors at once.<br>IDE HDD only reads/writes a sector once.                     |



|                           |   |  |
|---------------------------|---|--|
| • Power On Function       | <i>BUTTON ONLY</i>                                  | Uses the power button to power up the system.  |
| • KB Power ON Password    | <i>Password Enter</i>                               | Enables the Keyboard Password Power-On.  |
| • Onboard FDC Controller  | <i>Enabled Disabled</i>                             | Onboard floppy disk controller is enabled.<br>Onboard floppy disk controller is disabled.  |
| • Onboard Serial Port 1/2 | <i>3F8/IRQ4, 2F8/IRQ3, 3E8/IRQ4, 2E8/IRQ3, Auto</i> | Defines the onboard serial port address and required interrupt number.   |
| • UART Mode Select        | <i>Disabled Normal</i>                              | Onboard serial port address and IRQ are automatically assigned.<br>Onboard serial port is disabled.<br>This option is used to configure UART Mode. |
| • RxD, TxD Active         | <i>Lo, Hi Hi, Lo Lo, Lo Hi, Hi</i>                  | Default setting is suggested.  |
| • IR Transmission Delay   | <i>Enabled Disabled</i>                             | Default setting is suggested.  |
| • UR2 Duplex Mode         | <i>Full Half</i>                                    | Default setting is suggested.  |
| • Use IR Pins             | <i>IR-Rx2Tx2 RxD2, TxD2</i>                         | Default setting is suggested.  |
| • Onboard Parallel Port   | <i>378/IRQ7, 278/IRQ5, 3BC/IRQ7 Disabled</i>        | Defines onboard parallel port address and IRQ channel.<br>Onboard parallel port is disabled.   |
| • Parallel Port Mode      | <i>SPP EPP ECP ECP+EPP</i>                          | Defines the parallel port mode as standard Parallel Port(SPP), Enhanced Parallel Port(EPP), or Extended Capabilities Port(ECP).                    |
| • EPP Mode Select         | <i>EPP1, 7 EPP1, 9</i>                              | Default setting is suggested.  |
| • EPP MMode use DMA       | <i>3, 1</i>   | Default setting is suggested.  |



- |                        |                               |   |
|------------------------|-------------------------------|---|
| ● PWRON After PWR-Fail | <i>OFF</i>                    | The system remains OFF when the AC power supply resumes.  |
|                        | <i>ON</i>                     | The system will be powered up when the AC power supply resumes.   |
|                        | <i>Former-Sts</i>             | Whatever the system status is before the AC power supply cuts off, the system resumes in the previous status (ON/OFF) when the AC power supply resumes. |
| ● Game Port Address    | <i>Disabled</i><br>201<br>209 | This option is used to configure Game Port Address.   |
| ● Midi Port Address    | <i>Disabled</i><br>300<br>330 | This option is used to configure Midi Port Address.   |
| ● Game Port Address    | <i>Disabled</i><br>201<br>209 | This option is used to configure Game Port Address.   |
| ● Midi Port Address    | <i>Disabled</i><br>300<br>330 | This option is used to configure Midi Port Address.   |
| ● Midi Port IRQ        | 5, 10                         | Default setting is suggested.   |



## PC Health Status

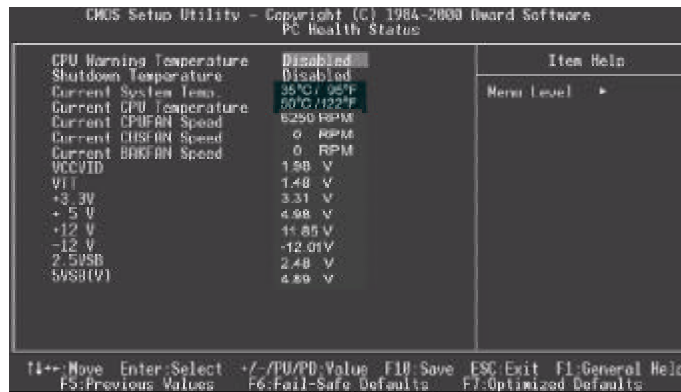


Figure-9 PC Health Status Menu

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

| <u>Item</u>               | <u>Option</u> | <u>Description</u>   |
|---------------------------|---------------|--|
| ● CPU Warning Temperature | 50°C/122°F    | An alarm will beep when the CPU temperature reaches the previous setting, 50°C/122°F, 53°C/127°F, 56°C/133°F, 60°C/140°F, 63°C/145°F, 66°C/151°F, 70°C/158°F, 80°C/176°F, 85°C/185°F, 90°C/194°F, 95°C/205°F.  |
|                           | 53°C/127°F    |  |
|                           | .             |  |
|                           | .             |  |
|                           | .             |  |
| ● Shutdown Temperature    | 95°C/205°F    | The system will shut down automatically when the CPU temperature reaches the previous setting, 60°C/140°F, 65°C/149°F, 70°C/158°F, 75°C/167°F, 85°C/185°F, 90°C/194°F.   |
|                           | Disabled      |  |
|                           | 60°C/140°F    |  |
|                           | .             |  |
| ● Current system temp.    | .             | The system remains on regardless of how much the CPU temperature is.   |
|                           | 90°C/194°F    |  |
|                           | Disabled      |  |
|                           | .             |  |
| ● Current CPU Temperature | .             | The temperature of the system.   |
| ● Current CPUFAN Speed    | .             | The temperature near CPU.  |
| ● Current CHSFAN Speed    | .             | RPM (Revolution Per Minute) Speed of fan which is connected to the fan header, CPUFAN or CHSFAN, BAKFAN. Fan speed value is based on an assumption that tachometer signal is two pulses per revolution. In other cases, you should regard it relatively. |
| ● Current BAKFAN Speed    | .             |  |
| .                         |               |  |



- VCCVID
- VTT
- +3.3V,
- +5 V,
- +12 V,
- 12 V,
- 2.5VSB
- 5VSB(V)

Displays current voltage value including all significant voltages of the mainboard. +3.3V, +5V, +12V, -12V, 2.5V and 5VSB are voltages from the ATX power supply, VTT(+1.5) Voltage is GTL Termination voltage from the on board regulator and VCCVID (CPU) Voltage is the CPU core voltage from the on board switching Power Supply.



## 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 Driver CD 2000

A QDI Driver CD 2000 is supplied with this mainboard, the contents contained in it are showed as below:

#### 1. Express Install

It's recommended for most users that program will be installed with the most common options.

- |                      |                           |
|----------------------|---------------------------|
| A. Intel chipset INF | B. Intel Security Driver  |
| C. Audio Driver      | D. MIDI Driver (optional) |

#### 2. Chipset Driver

It's recommended for advanced users that you may choose the options you want to install.

- |                      |                          |
|----------------------|--------------------------|
| A. Intel chipset INF | B. Intel Security Driver |
|----------------------|--------------------------|

#### 3. OnBoard Device Driver

It's recommended for advanced users that you may choose the options you want to install.

- |                 |                           |
|-----------------|---------------------------|
| A. Audio Driver | B. MIDI Driver (optional) |
|-----------------|---------------------------|

Restart the computer after installing the sound driver, the system will then find the sound device, press "next" until "finish" according to the prompt, then the sound device will work normally. Don't forget to restart the computer once again!

**Notice:** If you press "cancel" instead of "next" during the above procedures, the sound device may not be found automatically, restart the computer again and repeat the above procedures, then it works.

#### 4. Accessory

The softwares contained in this directory are:

- |                |                   |
|----------------|-------------------|
| A. DirectX 7.0 | B. QDI ManageEasy |
| C. PC-cillin   |                   |

#### 5. 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. Lf.exe |
|-------------------|-----------|

The files included in **Documents** are:

- |   |
|---|
| A. Adobe Acrobat Reader V3.0 - Ar32e301.exe |
| B. French Manual - WX1 FR.doc, ect.         |

# **Board Layout of CenturieX 2 V1.0**