4.BIOS CONFIGURATION

Award's BIOS ROM has a built-in Setup program that allows users to modify the basic system configuration. This type of information is stored in batterybacked CMOS SRAM so that it retains the Setup information when the power is turned off.

4.1. ENTERING SETUP

Power ON the computer and press immediately will allow you to enter Setup. If the message disappears before you respond and you still wish to enter Setup, restart the system to try again by turning it OFF then ON or pressing the "RESET" bottom on the system case. You may also restart by simultaneously press <Ctrl>, <Alt>, and keys.

4.2. CONTROL KEYS

| Up arrow | Move to previous item |
|-------------|---|
| Down arrow | Move to next item |
| Left arrow | Move to the item in the left hand |
| Right arrow | Move to the item in the right hand |
| Esc key | Main Menu - Quit and not save changes into CMOS |
| | Status Page Setup Menu and Option Page Setup Menu - |
| | Exit current page and return to Main Menu |
| PgUp key | Increase the numeric value or make changes |
| PgDn key | Decrease the numeric value or make changes |
| F1 key | General help, only for Status Page Setup Menu and Option |
| | Page Setup Menu |
| F2 key | Change color from total 16 colors |
| F3 key | Reserved |
| F4 key | Reserved |
| F5 key | Restore the previous CMOS value from CMOS, only for |
| | Option Page Setup Menu |
| F6 key | Load the default CMOS value from BIOS default table, only |
| | for Option Page Setup Menu |
| F7 key | Load the default |
| F8 key | Reserved |
| F9 key | Reserved |
| F10 key | Save all the CMOS changes, only for Main Menu |

4.3. GETTING HELP

4.3.1. Main Menu

The on-line description of the highlighted setup function is displayed at the bottom of the screen.

4.3.2. Status Page Setup Menu / Option Page Setup Menu

Press F1 to pop up a small help window that describes the appropriate keys to use and the possible selections for the highlighted item. To exit the Help Window press <Esc>.

4.4. THE MAIN MENU

Once you enter Award BIOS CMOS Setup Utility, the Main Menu (Figure 4.1) will appear on the screen. The Main Menu allows you to select from nine setup functions and two exit choices. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.

| CMOS Setup Utility-Copyright(C) 1984-1999 Award Software | | |
|--|---------------------------|--|
| Standard CMOS Features | Frequency/Voltage Control | |
| Advanced BIOS Features | Load Fail-Safe Defaults | |
| Advanced Chipset Features | Load Optimized Defaults | |
| Integrated Peripherals | Set Supervisor Password | |
| Power Management Setup | Set User Password | |
| PnP/PCI Configurations | Save & Exit Setup | |
| PC Health Status | Exit Without Saving | |
| ESC:Quit $\uparrow \downarrow \rightarrow \leftarrow$: Select Item F10:Save & Exit Setup | | |
| Time, Date, Hard Disk Type | | |

Figure 4.1: Main Menu

4-2

6WXM

Standard CMOS Features

This setup page includes all the items in standard compatible BIOS.

Advanced BIOS Features

This setup page includes all the items of Award special enhanced features.

Advanced Chipset Features

This setup page includes all the items of chipset special features.

Integrated Peripherals

This setup page includes all onboard peripherals.

• Power Management Setup

This setup page includes all the items of Green function features.

PnP/PCI Configurations

This setup page includes all the configurations of PCI & PnP ISA resources.

• PC Health Status

This setup page is the System auto detect Temperature, voltage , fan speed.

• Frequency/Voltage Control

This setup page is select CPU's type.

Load Fail-Safe Defaults

Fail-Safe Defaults indicates the value of the system parameters which the system would be in safe configuration.

Load Optimized Defaults

Optimized Defaults indicates the value of the system parameters which the system would be in best performance configuration.

• Set Supervisor password

Change, set, or disable password. It allows you to limit access to the system and Setup, or just to Setup.

• Set User password

Change, set, or disable password. It allows you to limit access to the system.

Save & Exit Setup

Save CMOS value settings to CMOS and exit setup.

Exit Without Saving

Abandon all CMOS value changes and exit setup.

4.5. STANDARD CMOS FEATURES MENU

The items in Standard CMOS Setup Menu (Figure 4.2) are divided into 9 categories. Each category includes no, one or more than one setup items. Use the arrows to highlight the item and then use the <PgUp> or <PgDn> keys to select the value you want in each item.

| Standard CMOS FeaturesDate (mm:dd:yy)Thu , Jan 7 1999Item HelpTime (hh:mm:ss)2 : 31 : 24Menu Level IDE Primary MasterPress Enter NoneChange theIDE Primary SlavePress Enter NoneDay, month,IDE Secondary MasterPress Enter NoneDay, month,IDE Secondary SlavePress Enter NoneChange theDrive A1.44M, 3.5 in.Drive B | | |
|---|--|--|
| Time (hh:mm:ss)2 : 31 : 24IDE Primary MasterPress Enter NoneIDE Primary SlavePress Enter NoneIDE Secondary MasterPress Enter NoneIDE Secondary SlavePress Enter NoneDrive A1.44M, 3.5 in. | | |
| IDE Primary Master IDE Primary Slave IDE Secondary Master IDE Secondary Slave DE Secondary Slave Drive A I.44M, 3.5 in. | | |
| IDE Primary Master IDE Primary Slave IDE Secondary Master IDE Secondary Slave Drive A Press Enter None Press Enter None Change the Day, month, Year and century | | |
| IDE Primary Slave Press Enter None Change the IDE Secondary Master Press Enter None Day, month, IDE Secondary Slave Press Enter None Change the Drive A 1.44M, 3.5 in. Change the | | |
| IDE Secondary Master IDE Secondary Slave Drive A Press Enter None Press Enter None Day, month, Year and century Drive A | | |
| ▶ IDE Secondary Slave ▶ IDE Secondary Slave ▶ Press Enter None Year and century Drive A 1.44M, 3.5 in. | | |
| ▶ IDE Secondary Slave ▶ IDE Secondary Slave ▶ Press Enter None Year and century Drive A 1.44M, 3.5 in. | | |
| Drive A 1.44M, 3.5 in. | | |
| Drive A 1.44M, 3.5 in. | | |
| , | | |
| | | |
| Floppy 3 Mode Support Disabled | | |
| | | |
| Video EGA / VGA | | |
| Halt On All Errors | | |
| | | |
| Base Memory 640K | | |
| Extended Memory 129024K | | |
| Total Memory 130048K | | |
| rotarmonory | | |
| | | |
| 1 ↓→ ←Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help | | |
| F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults | | |
| Figure 4.2: Standard CMOS Features Menu | | |

Date

The date format is <day>, <month> <date> <year>.

| day | The day, from Sun to Sat, determined by the BIOS and is display-only |
|-------|--|
| month | The month, Jan. Through Dec. |
| date | The date, from 1 to 31 (or the maximum allowed in the month) |
| year | The year, from 1994 through 2079 |

Time

The times format in <hour> <minute> <second>. The time is calculated base on the 24-hour military-time clock. For example, 1 p.m. is 13:00:00.

IDE Primary Master, Slave / Secondary Master, Slave

The category identifies the types of hard disk from drive C to F that has been installed in the computer. There are two types: auto type, and user definable type. User type is user-definable; Auto type which will automatically detect HDD type.

Note that the specifications of your drive must match with the drive table. The hard disk will not work properly if you enter improper information for this category.

If you select User Type, related information will be asked to enter to the following items. Enter the information directly from the keyboard and press <Enter>. Such information should be provided in the documentation form your hard disk vendor or the system manufacturer.

| CYLS. | Number of cylinders |
|----------|---------------------|
| HEADS | number of heads |
| PRECOMP | write precomp |
| LANDZONE | Landing zone |
| SECTORS | number of sectors |

If a hard disk has not been installed select NONE and press <Enter>.

Drive A type / Drive B type

The category identifies the types of floppy disk drive A or drive B that has been installed in the computer.

| None | No floppy drive installed | |
|----------------|---|--|
| 360K, 5.25 in. | 5.25 inch PC-type standard drive; 360K byte capacity. | |
| 1.2M, 5.25 in. | 5.25 inch AT-type high-density drive; 1.2M byte | |
| | capacity (3.5 inch when 3 Mode is Enabled). | |
| 720K, 3.5 in. | 3.5 inch double-sided drive; 720K byte capacity | |
| 1.44M, 3.5 in. | 3.5 inch double-sided drive; 1.44M byte capacity. | |
| 2.88M, 3.5 in. | 3.5 inch double-sided drive; 2.88M byte capacity. | |

• Floppy 3 Mode Support (for Japan Area)

| Disabled | Normal Floppy Drive. |
|----------|---------------------------------------|
| Drive A | Drive A is 3 mode Floppy Drive. |
| Drive B | Drive B is 3 mode Floppy Drive. |
| Both | Drive A & B are 3 mode Floppy Drives. |

• Video

The category detects the type of adapter used for the primary system monitor that must match your video display card and monitor. Although secondary monitors are supported, you do not have to select the type in setup.

| EGA/VGA | Enhanced Graphics Adapter/Video Graphics Array. For EGA, VGA, SVGA, or PGA monitor adapters | |
|---------|---|--|
| CGA 40 | Color Graphics Adapter, power up in 40 column mode | |
| CGA 80 | Color Graphics Adapter, power up in 80 column mode | |
| MONO | Monochrome adapter, includes high resolution monochrome adapters | |

Halt on

The category determines whether the computer will stop if an error is detected during power up.

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

Memory

The category is display-only which is 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.

The value of the base memory is typically 512 K for systems with 512 K memory installed on the motherboard, or 640 K for systems with 640 K or more memory installed on the motherboard.

Extended Memory

The BIOS determines how much extended memory is present during the POST.

This is the amount of memory located above 1 MB in the CPU's memory address map.

4.6. Advanced BIOS Features

| CMOS Setup Utility-Copyright(C) 1984-1999 Award Software Advanced BIOS Features | | |
|--|----------|---------------------|
| Virus Warning | Disabled | Item Help |
| CPU cache | Enabled | |
| CPU L2 Cache ECC Checking | Disabled | Menu Level 🕨 |
| Processor Number Feature | Enabled | Allows you to |
| Quick Power On Self Test | Enabled | choose the VIRUS |
| First Boot Device | Floppy | Warning feature |
| Second Boot Device | HDD-0 | For IDE Hard disk |
| Third Boot Device | LS/ZIP | Boot sector |
| Boot Other Device | Enabled | Protection. If this |
| Swap Floppy Drive | Disabled | Function is enable |
| Boot Up Floppy Seek | Enabled | And someone |
| Boot Up NumLock Status | On | Attempt to write |
| Gate A20 Option | Fast | Data into this area |
| Typematic Rate Setting | Disabled | , BIOS will show |
| Typematic Rate (Chars/Sec) | 6 | A warning |
| Typematic Delay (Msec) | 250 | Message on |
| Security Option | Setup | Screen and alarm |
| OS Select For DRAM >64MB | Non-OS2 | beep |
| HDD S.M.A.R.T. Capability | Disabled | |
| Report No FDD For WIN 95 | No | |
| ↑↓→ ←Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults | | |

Figure 4.3: Advanced BIOS Features Setup

 \ast System will detect automatically and show up when you install the Pentium III processor.

Virus Warning

If it is set to enable, the category will flash on the screen when there is any attempt to write to the boot sector or partition table of the hard disk drive. The system will halt and the following error message will appear in the mean time. You can run anti-virus program to locate the problem.

Default value is Disabled.

| Enabled | Activate automatically when the system boots up causing a warning message to appear when anything attempts to access the boot sector or hard disk partition table | |
|----------|---|--|
| Disabled | | |

CPU cache

These two categories speed up memory access. However, it depends on CPU / chipset design. The default value is Enabled.

| Enabled | Enable cache |
|----------|---------------|
| Disabled | Disable cache |

• CPU L2 Cache ECC Checking

The default value is Disabled.

| Enabled | Enable CPU L2 Cache ECC Checking |
|----------|-----------------------------------|
| Disabled | Disable CPU L2 Cache ECC Checking |

Processor Number Feature

This item will show up when you install the Pentium III processor.

The default value is Enabled.

| Enabled | Pentium III Processor Number Feature. |
|----------|---------------------------------------|
| Disabled | Disable this function |

Quick Power On Self Test

This category speeds up Power On Self Test (POST) after you power on the computer. If it is set to Enable, BIOS will shorten or skip some check items during POST.

The default value is Enabled.

| Enabled | Enable quick POST |
|----------|-------------------|
| Disabled | Normal POST |

• First / Second / Third Boot device

The default value is Floppy / HDD-0 / LS/ZIP.

| Floppy | Select your boot device priority by Floppy |
|---------|---|
| LS/ZIP | Select your boot device priority by LS/ZIP |
| HDD-0~3 | Select your boot device priority by HDD-0~3 |
| SCSI | Select your boot device priority by SCSI |
| CDROM | Select your boot device priority by CDROM |
| Disable | Disable this function |
| LAN | Select your boot device priority by LAN |

Boot other device

The default value is Enabled

| Enabled | Enabled select your boot device priority function |
|----------|---|
| Disabled | Disabled this function |

Swap Floppy Drive

The default value is Disabled.

| Enabled | Floppy A & B will be swapped under DOS. |
|----------|---|
| Disabled | Floppy A & B will be normal definition. |

Boot Up Floppy Seek

During POST, BIOS will determine the floppy disk drive installed is 40 or 80 tracks. 360 K type is 40 tracks 720 K, 1.2 M and 1.44 M are all 80 tracks. The default value is Enabled.

| Enabled | BIOS searches for floppy disk drive to determine it is 40 or 80 tracks. Note that BIOS can not tell from 720 K, 1.2 M or 1.44 M drive type as they are all 80 tracks |
|----------|--|
| Disabled | BIOS will not search for the type of floppy disk drive by track number. Note that there will not be any warning message if the drive installed is 360 K |

Boot Up NumLock Status

The default value is On.

| On | Keypad is number keys. |
|-----|------------------------|
| Off | Keypad is arrow keys. |

Gate A20 Option

The default value is Fast.

| Normal | Set Gate A20 Option is Normal. |
|--------|--------------------------------|
| Fast | Set Gate A20 Option is Fast. |

• Typematic Rate Setting

The default value is Disabled.

| Enabled | Enable Keyboard Typematic rate setting. |
|----------|--|
| Disabled | Disable Keyboard Typematic rate setting. |

• Typematic Rate (Chars / Sec.)

The default value is 6.

| 6-30 | Set the maximum Typematic rate from 6 chars. Per second |
|------|---|
| | to 30 characters. Per second. |

• Typematic Delay (Msec.)

The default value is 250.

| 250-1000 | Set the time delay from first key to repeat the same key in |
|----------|---|
| | to computer. |

Security Option

This category allows you to limit access to the system and Setup, or just to Setup. The default value is Setup.

| System | The system can not boot and can not access to Setup page will be denied if the correct password is not entered at the prompt |
|--------|--|
| Setup | The system will boot, but access to Setup will be denied if the correct password is not entered at the prompt |

OS Select For DRAM>64MB

The default value is Non-OS2.

| Non-OS2 | Using non-OS2 operating system. |
|---------|---|
| OS2 | Using OS2 operating system and DRAM>64MB. |

HDD S.M.A.R.T. Capability

The default value is Disable.

| Enable | Enable HDD S.M.A.R.T. Capability |
|---------|-----------------------------------|
| Disable | Disable HDD S.M.A.R.T. Capability |

• Report No FDD For WIN 95

The default value is No.

| No | Assign IRQ6 For FDD. |
|-----|--------------------------------|
| Yes | FDD Detect IRQ6 Automatically. |

4.7. Advanced Chipset Features

| CMOS Setup Utility-Copyright(Advanced Ch | C) 1984-1999 Awar ipset Features | d Software |
|--|---|--------------|
| SDRAM CAS Latency Time | 2 | Item Help |
| SDRAM Cycle Time Tras/Trc SDRAM RAS-to-CAS Delay SDRAM RAS Precharge Time DRAM Page Closing Policy System BIOS Cacheable Video BIOS Cacheable Delayed Transaction On-Chip Video Window Size | 5/7 2 2 Precharge Bank Enabled Enabled Disabled 64MB | Menu Level 🕨 |
| * Onboard Display Cache Setting * Initial Display Cache Display Cache Timing | Enabled Fast | |
| ↑↓→ ←Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults | | |

Figure 4.4: Advanced Chipset Features Setup

• SDRAM CAS latency Time

The default value is 2

| 3 | For 67 / 83 MHz SDRAM DIMM module. |
|---|------------------------------------|
| 2 | For 100 MHz SDRAM DIMM module. |

• SDRAM Cycle Time Tras/Trc

The default value is 5/7

| 6/8 | Set DRAM Tras/Trc Cycle time is 6/8 SCLKs. |
|-----|--|
| 5/7 | Set DRAM Tras/Trc Cycle time is 5/7 SCLKs. |

SDRAM RAS# to CAS# delay

The default value is 2

| 3 | Set SDRAM RAS# to CAS# delay 3 SCLKs. |
|---|---------------------------------------|
| 2 | Set SDRAM RAS# to CAS# delay 2 SCLKs. |

SDRAM RAS# Precharge

The default value is 2.

| 3 | Set SDRAM RAS# Precharge is 3. |
|---|--------------------------------|
| 2 | Set SDRAM RAS# Precharge is 2. |

DRAM Page Closing Policy

The default value is Precharge Bank .

| Precharge Bank | Closing Policy Precharge Bank. |
|----------------|--------------------------------|
| Precharge All | Closing Policy Precharge All. |

• System BIOS Cacheable

The default value is Enabled.

| Enabled | Enable System BIOS Cacheable. |
|----------|--------------------------------|
| Disabled | Disable System BIOS Cacheable. |

Video BIOS Cacheable

The default value is Enabled.

| Enabled | Enable video BIOS Cacheable. |
|----------|-------------------------------|
| Disabled | Disable video BIOS Cacheable. |

Delayed Transaction

The default value is Disabled.

| Disabled | Normal operation. |
|----------|--------------------------------------|
| Enabled | For slow speed ISA device in system. |

• On-Chip Video Window Size

The default value is 64MB.

| 32MB | Set Graphics Aperture Size to 32MB. |
|----------|-------------------------------------|
| 64MB | Set Graphics Aperture Size to 64MB. |
| Disabled | Disabled this function. |

Initial Display Cache

The default value is Enabled.

| Disabled | Disabled Initial Display Cache. |
|----------|---------------------------------|
| Enabled | Enabled Initial Display Cache. |

Display Cache Timing

The default value is Fast.

| Fast | Set Display Cache speed to Fast. |
|--------|------------------------------------|
| Normal | Set Display Cache speed to Normal. |

4.8. Integrated Peripherals

| CMOS Setup Utility-Copyright(C) 1984-1999 Award Software Integrated Peripherals | | |
|--|-------------|--------------|
| On-Chip Primary PCI IDE | Enabled | Item Help |
| On-Chip Secondary PCI IDE | Enabled | Ronniolp |
| IDE Primary Master PIO | Auto | Menu Level 🕨 |
| IDE Primary Slave PIO | Auto | |
| IDE Secondary Master PIO | Auto | |
| IDE Secondary Slave PIO | Auto | |
| IDE Primary Master UDMA | Auto | |
| IDE Primary Slave UDMA | Auto | |
| IDE Secondary Master UDMA | Auto | |
| IDE Secondary Slave UDMA | Auto | |
| USB Controller | Enabled | |
| USB Keyboard Support | Disabled | |
| Init Display First | PCI Slot | |
| AC97 Audio | Auto | |
| AC97 Modem | Auto | |
| IDE HDD Block Mode | Enabled | |
| POWER ON Function | BUTTON ONLY | |
| *KB Power ON Password | Enter | |
| Onboard FDC Controller | Enabled | |
| Onboard Serial Port 1 | Auto | |
| Onboard Serial Port 2 | Auto | |
| UART Mode Select | Normal | |
| *UR2 Duplex Mode | Half | |
| Onboard Parallel Port | 378/IRQ7 | |
| Parallel Port Mode | SPP | |
| *ECP Mode Use DMA | 3 | |
| Game Port Address | Disabled | |
| Midi Port Address | Disabled | |
| Midi Port IRQ | 5 | |
| CIR Port Address | Disabled | |
| *CIR Port IRQ | 11 | |
| ↑↓→ ←Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults | | |

Figure 4.5: Integrated Peripherals

On-Chip Primary PCI IDE

The default value is Enabled.

| Enabled | Enable onboard 1st channel IDE port. |
|----------|---------------------------------------|
| Disabled | Disable onboard 1st channel IDE port. |

On-Chip Secondary PCI IDE

The default value is Enabled.

| Enabled | Enable onboard 2nd channel IDE port. |
|----------|---------------------------------------|
| Disabled | Disable onboard 2nd channel IDE port. |

• IDE Primary Master PIO (for onboard IDE 1st channel).

The default value is Auto.

| Auto | BIOS will automatically detect the IDE HDD Accessing |
|---------|--|
| | mode. |
| Mode0~4 | Manually set the IDE Accessing mode. |

• IDE Primary Slave PIO (for onboard IDE 1st channel).

The default value is Auto.

| Auto | BIOS will automatically detect the IDE HDD Accessing mode. |
|---------|--|
| Mode0~4 | Manually set the IDE Accessing mode. |

• IDE Secondary Master PIO (for onboard IDE 2nd channel).

The default value is Auto.

| Auto | BIOS will automatically detect the IDE HDD Accessing mode. |
|---------|--|
| Mode0~4 | Manually set the IDE Accessing mode. |

• IDE Secondary Slave PIO (for onboard IDE 2nd channel).

The default value is Auto.

| Auto | BIOS will automatically detect the IDE HDD Accessing |
|---------|--|
| | mode. |
| Mode0~4 | Manually set the IDE Accessing mode. |

• IDE Primary Master UDMA.

The default value is Auto.

| Auto | BIOS will automatically detect the IDE HDD Accessing mode. |
|----------|--|
| Disabled | Disable UDMA function. |

• IDE Primary Slave UDMA.

The default value is Auto.

| Auto | BIOS will automatically detect the IDE HDD Accessing mode. |
|----------|--|
| Disabled | Disable UDMA function. |

• IDE Secondary Master UDMA.

The default value is Auto.

| Auto | BIOS will automatically detect the IDE HDD Accessing | |
|----------|--|--|
| | mode. | |
| Disabled | Disable UDMA function. | |

• IDE Secondary Slave UDMA.

The default value is Auto.

| Auto | BIOS will automatically detect the IDE HDD Accessing |
|----------|--|
| | mode. |
| Disabled | Disable UDMA function. |

USB Controller

The default value is Enabled.

| Enabled | Enable USB Controller. |
|----------|-------------------------|
| Disabled | Disable USB Controller. |

• USB Keyboard Support

The default value is Disabled.

| Enabled | Enable USB Keyboard Support. |
|----------|-------------------------------|
| Disabled | Disable USB Keyboard Support. |

Init Display First

The default value is PCI Slot.

| PCI Slot | Set Init Display First to PCI Slot. |
|----------|--|
| Onboard | Set Init Display First to onboard AGP. |

• AC' 97 Audio

The default value is Auto.

| Enabled | Enabled AC 97 Audio. |
|----------|--------------------------|
| Disabled | Disabled AC 97 Audio. |
| Auto | Set AC 97 Audio to Auto. |

AC' 97 Modem

The default value is Auto.

| Enabled | Enabled AC 97 Modem. |
|----------|--------------------------|
| Disabled | Disabled AC 97 Modem. |
| Auto | Set AC 97 Modem to Auto. |

IDE HDD Block Mode

The default value is Enabled.

| Enabled Enable IDE HDD Bl | | Enable IDE HDD Block Mode |
|---------------------------|----------|----------------------------|
| | Disabled | Disable IDE HDD Block Mode |

POWER ON Function

The default value is BUTTON ONLY.

| Password | Enter from 1 to 5 characters to set the Keyboard |
|-------------|---|
| | Power On Password. |
| Mouse Move | Move the PS/2 mouse. |
| Mouse Click | Double click twice on PS/2 mouse. |
| BUTTON ONLY | If your keyboard have "POWER Key" button, you can |
| | press the key to power on your system. |
| Keyboard 98 | Windows 98 keyboard "Power" key. |

Onboard FDC Controller

The default value is Enabled.

| Enabled | Enable onboard FDC port. |
|----------|---------------------------|
| Disabled | Disable onboard FDC port. |

Onboard Serial Port 1

The default value is Auto.

| Auto | BIOS will automatically setup the port 1 address. |
|----------|---|
| 3F8/IRQ4 | Enable onboard Serial port 1 and address is 3F8. |
| 2F8/IRQ3 | Enable onboard Serial port 1 and address is 2F8. |
| 3E8/IRQ4 | Enable onboard Serial port 1 and address is 3E8. |
| 2E8/IRQ3 | Enable onboard Serial port 1 and address is 2E8. |
| Disabled | Disable onboard Serial port 1. |

• Onboard Serial Port 2

The default value is Auto.

| Auto | BIOS will automatically setup the port 2 address. | |
|----------|---|--|
| 3F8/IRQ4 | Enable onboard Serial port 2 and address is 3F8. | |
| 2F8/IRQ3 | Enable onboard Serial port 2 and address is 2F8. | |
| 3E8/IRQ4 | Enable onboard Serial port 2 and address is 3E8. | |
| 2E8/IRQ3 | Enable onboard Serial port 2 and address is 2E8. | |
| Disabled | Disable onboard Serial port 2. | |

UART Mode Select

(This item allows you to determine which Infra Red(IR) function of Onboard I/O chip)

The default value is Normal

| ASKIR | Onboard I/O chip supports ASKIR. |
|--------|-----------------------------------|
| IrDA | Onboard I/O chip supports IrDA. |
| Normal | Onboard I/O chip supports Normal. |
| SCR | Onboard I/O chip supports SCR. |

Onboard Parallel port

The default value is 378/IRQ7.

| 378/IRQ7 | Enable onboard LPT port and address is 378/IRQ7. | |
|----------|--|--|
| 278/IRQ5 | Enable onboard LPT port and address is 278/IRQ5. | |
| Disabled | Disable onboard LPT port. | |
| 3BC/IRQ7 | Enable onboard LPT port and address is 3BC/IRQ7. | |

Parallel Port Mode

The default value is SPP.

| SPP | Using Parallel port as Standard Printer Port. | |
|---------|--|--|
| EPP | Using Parallel port as Enhanced Parallel Port. | |
| ECP | Using Parallel port as Extended Capabilities Port. | |
| ECP+EPP | Using Parallel port as ECP & EPP mode. | |

ECP Mode Use DMA

The default value is 3.

| 1 | Set ECP Mode Use DMA is 1. |
|---|----------------------------|
| 3 | Set ECP Mode Use DMA is 3. |

Game Port Address

The default value is Disabled.

| Disabled | Disabled On Board IDE |
|----------|-------------------------------|
| 201 | Set onboard game port is 201. |
| 209 | Set onboard game port is 209. |

Midi Port Address

The default value is Disabled.

| Disabled | Disabled On Board Midi Port. |
|----------|--------------------------------|
| 300 | Set On Board Midi Port is 300. |
| 330 | Set On Board Midi Port is 330. |

Midi Port IRQ

The default value is 5.

| 5 | Set 5 for Midi Port IRQ |
|----|--------------------------|
| 10 | Set 10 for Midi Port IRQ |

CIR Port Address

The default value is Disabled.

| Disabled | Disabled CIR function. |
|----------|------------------------------|
| 310 | Set CIR Port Address to 310. |
| 320 | Set CIR Port Address to 320. |

4.9. POWER MANAGEMENT SETUP

| CMOS Setup Utility-Copyright(C) 1984-1999 Award Software Power Management Setup | | |
|--|------------------------|--------------|
| ACPI Suspend Type | S1(PowerOnSu spend) | Item Help |
| Power Management | User Define | |
| Video Off Method | DPMS | Menu Level 🕨 |
| Video Off In Suspend | Yes | |
| Suspend Type | Stop Grant | |
| MODEM Use IRQ | 4 | |
| Suspend Mode | Disabled | |
| HDD Power Down | Disabled | |
| Soft-Off by PWR-BTTN | Instant-off | |
| Power LED in Suspend | Blinking | |
| AC BACK Function | Memory | |
| Wake-Up by PCI card | Enabled Enabled | |
| ModemRingOn/WakeOnLan | Disabled | |
| USB KB Wake-Up from S3 FAN Off In Suspend | Enabled | |
| CPU Thermal-Throttling | 50% | |
| Resume by Alarm | Disabled | |
| * Date(of Month) Alarm | 0 | |
| * Time(hh:mm:ss) Alarm | 0 0 0 | |
| | | |
| ** Reload Global Timer Events ** | | |
| Primary IDE 0 | Disabled | |
| Primary IDE 1 | Disabled | |
| Secondary IDE 0 | Disabled | |
| Secondary IDE 1 | Disabled | |
| FDD,COM,LPT Port | Enabled | |
| PCI PIRQ[A-D]# | Enabled | |
| ↑↓→ ←Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults | | |

Figure 4.6: Power Management Setup

ACPI Suspend Type

The default value is S1 (PowerOn Suspend).

| S1(PowerOn Suspend) | Set ACPI Suspend type is S1. |
|---------------------|------------------------------|
| S3(Suspend to RAM) | Set ACPI Suspend type is S3. |

Power Management

The default value is User Define.

| User Define | For configuring our own power management features. | |
|-------------|--|--|
| Min Saving | Enable Green function. | |
| Max Saving | Disable Green function. | |

• Video off Method

The default value is DPMS.

| V/H SYNC+Blank | BIOS will turn off V/H-SYNC when gets into Green mode for Green monitor power saving. |
|----------------|--|
| Blank Screen | BIOS will only black monitor when gets into Green mode. |
| DPMS | BIOS will use DPMS Standard to control VGA card. (The Green type VGA card will turn off V/H-SYNC automatically.) |

• Video Off In Suspend

The default value is Yes.

| Yes | Enabled video off in suspend. |
|-----|--------------------------------|
| No | Disabled video off in suspend. |

Suspend Type

The default value is Stop Grant.

| Stop Grant | Set Suspend type is stop grant. |
|---------------|---------------------------------------|
| PwrOn Suspend | Set Suspend type is Power on suspend. |
| | |

MODEM Use IRQ

The default value is 4.

| NA | Set MODEM Use IRQ to NA. |
|----|--------------------------|
| 3 | Set MODEM Use IRQ to 3. |
| 4 | Set MODEM Use IRQ to 4. |
| 5 | Set MODEM Use IRQ to 5. |
| 7 | Set MODEM Use IRQ to 7. |
| 9 | Set MODEM Use IRQ to 9. |
| 10 | Set MODEM Use IRQ to 10. |
| 11 | Set MODEM Use IRQ to 11. |

Suspend Mode

The default value is Disable.

| Disabled | Disable Suspend Mode. |
|----------------|--|
| 1 min - 1 Hour | Setup the timer to enter Suspend Mode. |

HDD Power Down

The default value is Disable.

| Disable | Disable HDD Power Down mode function. |
|------------|--|
| 1-15 mins. | Enable HDD Power Down mode between 1 to 15 mins. |

Soft-off by PWR-BTTN

The default value is Instant-off.

| Instant-off | Soft switch ON/OFF for POWER ON/OFF |
|--------------|-------------------------------------|
| Delay 4 Sec. | Soft switch ON 4sec. for POWER OFF. |

Power LED in Suspend

The default value is BLINKING.

| BLINKING | Set Power LED in Suspend at BLINKING mode. |
|----------|--|
| ON | Set Power LED in Suspend at ON mode. |
| OFF/DUAL | Set Power LED in Suspend at OFF/DUAL color mode. |

AC Back Function

The default value is Memory.

| Memory | This function depends on computer status |
|----------|--|
| Soft-Off | Set System Soft-Off Status. |
| Full-On | Set System Full-On Status. |

• Wake-Up by PCI card

The default value is Enabled.

| Disabled | Disabled this function. |
|----------|------------------------------|
| Enabled | Enabled wake-up by PCI card. |

ModemRingOn / WakeOnLan

The default value is Enabled.

| Disabled | Disable these functions. |
|----------|--------------------------|
| Enabled | Enable these functions. |

USB Mouse Wake From S3

The default value is Disabled.

| Disabled | Disable USB Mouse Wake From S3. |
|----------|---------------------------------|
| Enabled | Enable USB Mouse Wake From S3. |

• FAN Off In Suspend

The default value is Enabled.

| Disabled | Disable this function. |
|----------|--|
| Enabled | Stop CPU FAN when entering Suspend mode. |

CPU Thermal-Throttling

The default value is 50%.

| 87.5% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 87.5%. 75.0% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 75.0%. 62.5% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 62.5%. 50.0% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 50.0%. 37.5% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 37.5%. 25.0% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 25.0%. 12.5% Monitor CPU Temp. will cause system slow down | | |
|---|--------|---|
| 75.0% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 75.0%. 62.5% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 62.5%. 50.0% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 50.0%. 37.5% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 37.5%. 25.0% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 25.0%. | 87.5% | , , , |
| CPU Duty Cycle to 75.0%. 62.5% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 62.5%. 50.0% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 50.0%. 37.5% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 37.5%. 25.0% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 25.0%. | 75.0% | |
| CPU Duty Cycle to 62.5%. 50.0% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 50.0%. 37.5% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 37.5%. 25.0% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 25.0%. | 10.070 | |
| 50.0% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 50.0%. 37.5% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 37.5%. 25.0% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 25.0%. | 62.5% | Monitor CPU Temp. will cause system slow down |
| CPU Duty Cycle to 50.0%. 37.5% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 37.5%. 25.0% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 25.0%. | | CPU Duty Cycle to 62.5%. |
| 37.5%Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 37.5%.25.0%Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 25.0%. | 50.0% | Monitor CPU Temp. will cause system slow down |
| CPU Duty Cycle to 37.5%. 25.0% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 25.0%. | | CPU Duty Cycle to 50.0%. |
| 25.0% Monitor CPU Temp. will cause system slow down CPU Duty Cycle to 25.0%. | 37.5% | Monitor CPU Temp. will cause system slow down |
| CPU Duty Cycle to 25.0%. | | CPU Duty Cycle to 37.5%. |
| | 25.0% | Monitor CPU Temp. will cause system slow down |
| 12.5% Monitor CPU Temp. will cause system slow down | | CPU Duty Cycle to 25.0%. |
| | 12.5% | Monitor CPU Temp. will cause system slow down |
| CPU Duty Cycle to 12.5%. | | CPU Duty Cycle to 12.5%. |

Resume by Alarm

The default value is Disabled.

| Disabled | Disable this function. | |
|----------------------------------|------------------------|-----------------------------|
| Enabled | Enable alarm fu | Inction to POWER ON system. |
| If the default value is Enabled. | | |
| Date (of Month) Alarm : | | 0~31 |
| Time (hh: mm: ss) Alarm : | | (0~23) : (0~59) : (0~59) |

Primary IDE 0/1

The default value is Disabled.

| Disabled | Disable this function. |
|----------|---|
| Enabled | Enable monitor Primary IDE 0/1 for Green event. |

Secondary IDE 0/1

The default value is Disabled.

| Disabled | Disable this function. |
|----------|---|
| Enabled | Enable monitor Secondary IDE 0/1 for Green event. |

FDC/COM/LPT Port

The default value is Enabled.

| Disabled | Disable this function. |
|----------|---|
| Enabled | Enable monitor FDC/COM/LPT for Green event. |

PCI PIRQ[A-D] #

The default value is Enabled.

| Enabled | Monitor PCI PIRQ[A-D] IRQ Active. |
|----------|-----------------------------------|
| Disabled | Ignore PCI PIRQ[A-D] IRQ Active. |

4.10. PnP/PCI Configurations

| CMOS Setup Utility-Copyrigh PnP/PCI | nt(C) 1984-1999 Awar Configurations | d Software |
|--|--|---|
| PNP OS Installed | No | Item Help |
| Reset Configuration Data | Disabled | Menu Level 🕨 |
| Resources Controlled By * IRQ Resources *DMA Resources *Memory Resources PCI/VGA Palette Snoop | Auto (ESCD) Press Enter Press Enter Press Enter Disabled | Select Yes if you Are using a Plug And Play capable Operating system Select No if you |
| Assign IRQ For USB | Enabled | Need the BIOS to Configure non- Boot devices |
| $ \begin{array}{c} \uparrow \downarrow \rightarrow \leftarrow \text{Move Enter:Select +/-/PU/PD:} \\ \text{F5:Previous Values F6:Fail-S} \end{array} $ | | |

Figure 4.7: PCI Slot Configuration

PNP OS Installed

The default value is No.

| Yes | Enable PNP OS Installed function. |
|-----|------------------------------------|
| No | Disable PNP OS Installed function. |

Reset Configuration Data

The default value is Disabled.

| Disabled | Disable this function. |
|----------|---------------------------------------|
| Enabled | Enable clear PnP information in ESCD. |

Resources Controlled by

The default value is Auto (ESCD)

| Manual | User can set the PnP resource (I/O Address, IRQ & DMA |
|--------|---|
| | channels) used by legacy ISA DEVICE. |
| Auto | BIOS automatically use these PnP rescuers. |

IRQ (3,4,5,7,9, 10,11,12,14,15), DMA(0,1,3,5,6,7) assigned to

The default value is "Legacy ISA" or "PCI/ISA PnP".

| Legacy ISA | The resource is used by Legacy ISA device. |
|-------------|--|
| PCI/ISA PnP | The resource is used by PCI/ISA PnP device (PCI or |
| | ISA). |

Reserved Memory Base

The default value is N/A.

| N/A | Disable the MEM. block using. | |
|-------------|---|--|
| C800 ~ DC00 | Select the MEM. block starting address. | |

PCI/VGA Palette Snoop

The default value is Disabled.

| Enabled | For having Video Card on ISA Bus and VGA Card on PCI Bus. |
|----------|---|
| Disabled | For VGA Card only. |

Assign IRQ For USB

The default value is Enabled.

| Enabled | Assign IRQ For USB |
|----------|------------------------|
| Disabled | Not assign IRQ For USB |

4.11. PC Health Status

| CMOS Setup Utility-Copyright(C) 1984-1999 Award Software PC Health Status | | | |
|--|------------|--------------|--|
| Reset Case Open Status | Disabled | Item Help | |
| Case Opened | Yes | | |
| VCORE | 2.01 V | Menu Level 🕨 | |
| VGTL | 1.48 V | | |
| VCC3 | 3.45 V | | |
| + 5V | 5.02 V | | |
| +12V | 12.16 V | | |
| - 12V | -11.70 V | | |
| - 5V | - 5.09 V | | |
| 5VSB | 4.97 V | | |
| VBAT | 3.00 V | | |
| Current CPU Temperature | 34°C | | |
| CPU FAN Speed | 5443 RPM | | |
| Power FAN Speed | 0 RPM | | |
| System FAN Speed | 0 RPM | | |
| CPU Temperature Select | 75°C/167°F | | |
| CPU FAN Fail Alarm | Disabled | | |
| Power FAN Fail Alarm | Disabled | | |
| System FAN Fail Alarm | Disabled | | |
| ↑↓→ ←Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults | | | |

Figure 4.8: PC Health Status

- Reset Case Open Status
- Case Opened

If the case is closed, "Case Opened" will show "No". If the case have been opened, "Case Opened" will show "Yes" . If you want to reset "Case Opened" value, set "Reset Case Open Status" to "Yes" and save CMOS, your computer will restart.

• Current Voltage (V) VCORE / VGTL/ VCC3 / ±12V / ±5V /VBAT /5VSB

Detect system's voltage status automatically.

• CPU FAN / Power FAN / System FAN Speed (RPM)

Detect Fan speed status automatically.

• CPU Temperature Select (°C / °F)

The default value is $75^{\circ}C/167^{\circ}F$

| 65°C / 149°F | Monitor CPU Temp. at 65°C / 149°F |
|--------------|-----------------------------------|
| 70°C / 158°F | Monitor CPU Temp. at 70°C / 158°F |
| 75°C / 167°F | Monitor CPU Temp. at 75°C / 167°F |
| Disabled | Disabled this function. |

• Fan Fail Alarm

CPU / POWER / SYSTEM

| Disabled | Fan Fail Alarm Function Disabled. |
|----------|-----------------------------------|
| Enabled | Fan Fail Alarm Function Enabled. |

4.12. Frequency/Voltage Control

| CMOS Setup Utility-Copyright(C) 1984-1999 Award Software Frequency/Voltage Control | | | |
|--|-----------------|------------|--|
| Auto Detect DIMM/PCI Clk | Enabled | Item Help | |
| Spread Spectrum CPU Type Pentium III | Disabled 500 | Menu Level | |
| | | | |
| ↑↓→ ←Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults | | | |

Figure 4.9: Frequency/Voltage Control

Auto Detect DIMM/PCI Clk

The default value is Enabled.

| Disabled | Disabled Auto Detect DIMM/PCI Clk |
|----------|-----------------------------------|
| Enabled | Enabled Auto Detect DIMM/PCI Clk |

Spread Spectrum

The default value is Disabled.

| Disabled | Disabled this function |
|--------------|---|
| 0.25% (Cntr) | Set Spread Spectrum to 0.25%(Center spread) |
| 0.5%(Down) | Set Spread Spectrum to 0.5%(Down spread) |

• CPU Type Pentium III (CPU type is depend on your CPU)

1. System Bus Speed :66MHz

200 / 233 / 266 / 300 / 333 / 366 / 400 / 433 / 466 / 500 / 533

2. System Bus Speed : 100MHz

300 / 350 / 400 / 450 / 500 / 550 / 600 / 650 / 700 / 750 / 800

3. System Bus Speed : 133MHz

400 / 466 / 533 / 600 / 666 / 733 / 800 / 866 / 933 / 1000 / 1066

4.13. Load Fail-Safe Defaults

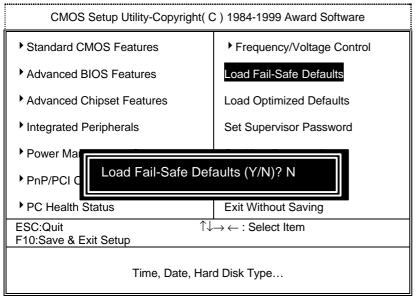


Figure 4.10: Load Fail-Safe Defaults

Load Fail-Safe Defaults

Fail–Safe defaults contain the most appropriate values of the system parameters that allow minimum system performance.

4.14. Load Optimized Defaults

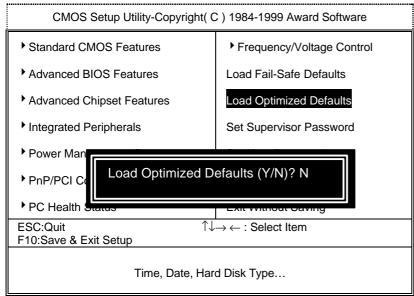


Figure 4.11: Load Optimized Defaults

• Load Optimized Defaults

Selecting this field loads the factory defaults for BIOS and Chipset Features which the system automatically detects.

4.15. Set Supervisor / User Password

When you select this function, the following message will appear at the center of the screen to assist you in creating a password.

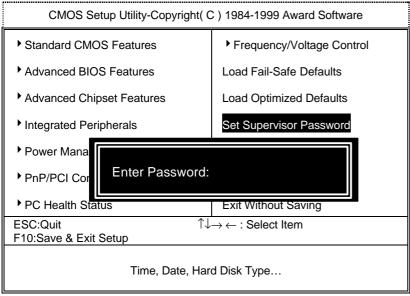


Figure 4.12: Password Setting

Type the password, up to eight characters, and press <Enter>. The password typed now will clear the 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 and not enter a password.

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

If you select System at Security Option in BIOS Features Setup Menu, you will be prompted for the password every time the system is rebooted or any time you try to enter Setup Menu. If you select Setup at Security Option in BIOS Features Setup Menu, you will be prompted only when you try to enter Setup.

4.16. Save & Exit Setup

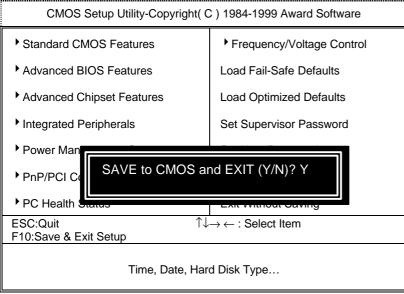


Figure 4.13: Save & Exit Setup

Type "Y" will quit the Setup Utility and save the user setup value to RTC CMOS SRAM.

Type "N" will return to Setup Utility.

4.17. Exit Without Saving

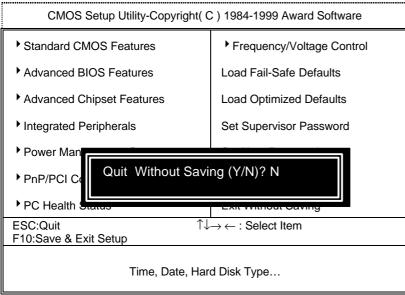


Figure 4.14: Exit Without Saving

Type "Y" will quit the Setup Utility without saving to RTC CMOS SRAM.

Type "N" will return to Setup Utility.



FCC Compliance Statement:

This equipment has been tested and found to comply with limits for a Class B digital device , pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause

interference to radio or television equipment reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna
- -Move the equipment away from the receiver
- -Plug the equipment into an outlet on a circuit different from that to which the receiver is connected
- -Consult the dealer or an experienced radio/television technician for additional suggestions

You are cautioned that any change or modifications to the equipment not expressly approve by the party responsible for compliance could void Your authority to operate such equipment.

This device complies with Part 15 of the FCC Rules. Operation is subjected 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.

Declaration of Conformity We, Manufacturer/Importer (full address)

G.B.T. Technology Träding GMbH Ausschlager Weg 41, 1F, 20537 Hamburg, Germany

declare that the product (description of the apparatus, system, installation to which it refers)

Mother Board GA-6WXM

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

| 🔲 EN 55011 | Limits and methods of measurement | EN 61000-3-2* | Disturbances in supply systems caused | |
|--|---|-------------------------------|---|--|
| | of radio disturbance characteristics of industrial, scientific and medical (ISM high frequency equipment | I EN60555-2 | by household appliances and similar electrical equipment "Harmonics" | |
| EN55013 | Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment | ☐ EN61000-3-3* ⊠ EN60555-3 | Disturbances in supply systems caused by household appliances and similar electrical equipment "Voltage fluctuations" | |
| EN 55014 | Limits and methods of measurement of radio disturbance characteristics of household electrical appliances, | 🛛 EN 50081-1 | Generic emission standard Part 1: Residual, commercial and light industry | |
| | portable tools and similar electrical apparatus | I EN 50082-1 | Generic immunity standard Part 1: Residual, commercial and light industry | |
| EN 55015 | Limits and methods of measurement of radio disturbance characteristics of fluorescent lamps and luminaries | EN 55081-2 | Generic emission standard Part 2: Industrial environment | |
| EN 55020 | Immunity from radio interference of broadcast receivers and associated equipment | EN 55082-2 | Generic immunity standard Part 2: Industrial environment | |
| 🛛 EN 55022 | Limits and methods of measurement of radio disturbance characteristics of information technology equipment | ENV 55104 | Immunity requirements for household appliances tools and similar apparatus | |
| DIN VDE 0855 part 10 part 12 | Cabled distribution systems; Equipment for receiving and/or distribution from sound and television signals | □ EN 50091-2 | EMC requirements for uninterruptible power systems (UPS) | |
| CE marking | CE marking CE conformity marking) | | | |
| The manufacturer also declares the conformity of above mentioned product with the actual required safety standards in accordance with LVD 73/23 EEC | | | | |
| EN 60065 | Safety requirements for mains operated electronic and related apparatus for household and similar general use | EN 60950 | Safety for information technology equipment including electrical business equipment | |
| EN 60335 | Safety of household and similar electrical appliances | EN 50091-1 | General and Safety requirements for uninterruptible power systems (UPS) | |
| Manufacturer/Importer | | | | |

(Stamp)

Date : Aug. 4, 1999

Signature : Rex Lin Name : Rex Lin