



## 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.
Other Memory	This is the memory that can be used for different applications. Shadow RAM is most used in this area.
Total Memory	Total memory of the system equals the sum of the above memory.



## BIOS Features Setup

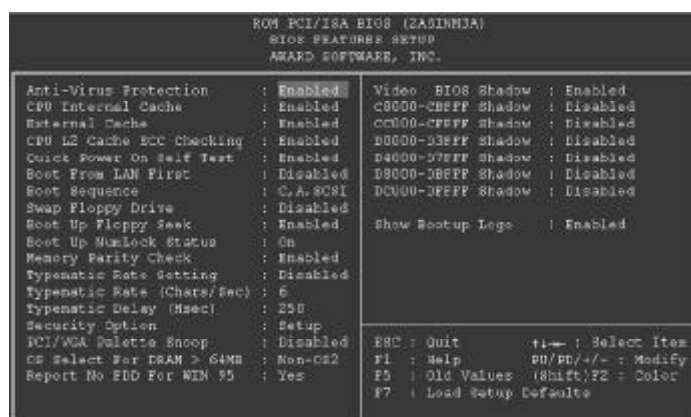


Figure-3 BIOS Features Setup Menu

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

Item	Option	Description
• Anti-Virus Protection	Enabled	Activated automatically when the system boots, causing a warning message to appear when anything attempts to access the boot sector or hard disk partition table.
	Disabled	No warning message appears.
• CPU Internal Cache	Enabled	Enabling this option speeds up memory access. However, it depends on CPU/chipset design.
• External Cache	Enabled	Enables external L2 cache. This allows better performance.
	Disabled	Disables external cache.
• CPU L2 Cache ECC Checking	Enabled	Enables CPU L2 Cache ECC (Error Checking and Correction) function.
	Disabled	Disables CPU L2 Cache ECC function.
• Quick Power On Self Test	Enabled	Enables quick POST. BIOS will shorten or skip some check items during POST to speed up POST after you power on the computer.
	Disabled	Normal POST.
• Boot From LAN First	Enabled	Boot from LAN is ahead of any boot sequence selection (LAN Adapter must support this function).
	Disabled	Does not boot from LAN first.



• Boot Sequence	C,A,SCSI,... C,CDROM,A LS/ZIP, C	Any of these search sequence can be chosen for booting.
• Swap Floppy Drive	Enabled Disabled	Exchanges the assignment of A&B floppy drives. The assignment of A&B floppy drives are normal.
• Boot Up Numlock Status	On Off	Keypad is used as number keys. Keypad is used as arrow keys.
• Memory Parity check	Enabled Disabled	Enables the Error Checking & Correction if ECC memory is used. Disables the ECC function.
• Typermatic Rate Setting	Enabled Disabled	Enables typermatic rate and typermatic programming. Disables typermatic rate and typermatic programming. The system BIOS will use the default value of these two items.
• Typermatic Rate (chars/sec)	6-30	Sets the speed of the typermatic rate (characters per second).
• Typermatic Delay (Msec)	250-1000	Sets the time of the typermatic delay.
• Security Option	System Setup	The system will not boot and access to Setup will be denied if the correct password is not entered when prompted. The system will boot up, but access to Setup will be denied if the correct password is not entered when prompted.
• PCI/VGA Palette Snoop	Enabled Disabled	Non-standard VGA cards such as graphics accelerators or MPEG video cards may not show colors properly. Enabling this can solve this problem.
• OS Select For DRAM>64MB	Non-OS2 OS2	If your operating system is not OS/2, please select this item. If system DRAM is more than 64MB and the operating system is OS/2, please select this item.
• Report NO FDD for WIN 95	Yes No	Reports NO Floppy Disk Drive for WIN 95 to release IRQ6. Does not report No Floppy Disk Drive for WIN 95.
• Video BIOS Shadow	Enabled Disabled	Video BIOS will be copied to RAM. Video Shadow will increase the video speed. Video shadow is disabled.
• C8000~CBFFF Shadow: DC000-DFFFF Shadow:	Enabled Disabled	Optional ROM will be copied to RAM by 16K bytes per unit. The shadow function is disabled.
• Show Bootup Logo	Enabled Disabled	Enables the Logo when system boots up. Logo will not be shown when system boots up.



## Chipset Features Setup

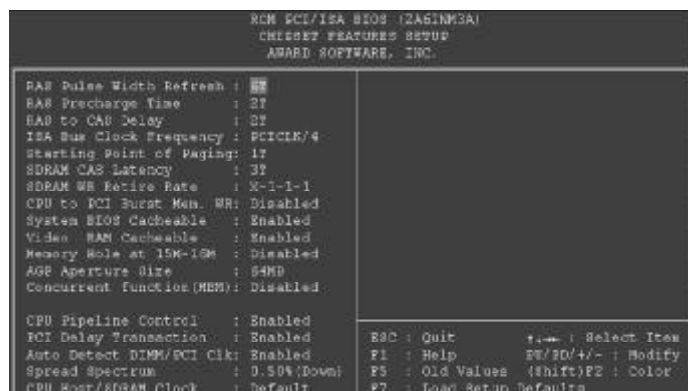


Figure-4 Chipset Features Setup Menu

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

<u>Item</u>	<u>Option</u>	<u>Description</u>
• RAS Pulse Width Refresh	4T-7T	Sets RAS pulse width. The smaller width enables higher performance.
• RAS Precharge Time	2T-5T	Default setting is suggested.
• RAS To CAS Delay	2T-5T	Adds a delay time between the assertion of RAS and CAS. Without additional delay time.
• ISA Bus Clock Frequency	PCICLK/3-PCICLK/4 7.159MHz	Chooses the ISA bus clock.
• Starting Point of Paging	1T/2T/4T/8T	Default setting is suggested.
• SDRAM CAS Latency	2T 3T	Contains the information for SDRAM initialization procedure.
• SDRAM WR Retire Rate	x-2-2-2 x-1-1-1	Controls the timing in which SIS620 writes data into SDRAM during burst cycles.
• CPU to PCI Burst Mem. WR	Enabled Disabled	Default setting is suggested.
• System BIOS Cacheable	Enabled Disabled	Besides conventional memory, the system BIOS area is also cacheable.
• Video RAM Cacheable	Enabled Disabled	Besides conventional memory, video RAM area is also cacheable.



• Memory hole at 15M-16M	<i>Enabled</i>	Memory hole at 15-16M is reserved for expanded ISA card.
	<i>Disabled</i>	Does not set this memory hole.
• AGP Aperture Size (MB)	<i>4-256</i>	Sets the effective size of the Graphics Aperture to be used in the particular PAC Configuration.
• Concurrent function (MEM)	<i>Enabled</i>	Default setting is suggested.
• CPU Pipeline Control	<i>Disabled</i>	There might be more than two pending cycles at one time depending on the CPU performance.
• PCI Delay Transaction	<i>Enabled</i>	Only one pending cycle is allowed at one time.
• Auto Detect DIMM/PCI CLK	<i>Disabled</i>	Default setting is suggested.
• Spread Spectrum	<i>0.25%/0.50%</i>	Closes empty DIMM/PCI clock to reduce EMI.
	<i>Disabled</i>	Does not close empty DIMM/PCI clock.
• CPU Host/SDRAM Clock	<i>Default</i>	Enables Spread Spectrum to reduce EMI.
	<i>66/66MHz</i>	Disables Spread Spectrum.
	<i>75/75MHz</i>	Default setting is 66/66MHz.
	<i>83/83MHz</i>	Sets CPU Host Bus Clock and SDRAM clock as 66/66MHz, 75/75MHz, 83/83MHz, 100/100MHz or 112/112MHz.
	<i>100/100MHz</i>	
	<i>112/112MHz</i>	
• CPU Clock Ratio Jumps	<i>Enabled</i>	The CPU bus ratio can be selected from 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5 and 8.0. Sets the CPU bus ratio according to your processor type. For bus ratio locked processor, this option doesn't work.
	<i>Disabled</i>	Disables this option.



## Power Management Setup



Figure-5 Power Management Setup Menu

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

Item	Option	Description
• ACPI function	<i>Disabled</i> <i>Enabled</i>	Invalidates ACPI function. Validates ACPI function.
• Power Management	<i>Disabled</i> <i>User Define</i> <i>Min Saving</i> <i>Max Saving</i>	Global Power Management (PM) will be disabled. Users can configure their own Power Management Timer. Pre - defined timer values are used. All timers are in their MAX values. Pre - defined timer values are used. All timers are in their MIN values.
• PM Control by APM	No Yes	System BIOS will ignore APM when Power Management is enabled. System BIOS will wait for APM's prompt before entering any PM mode e.g. Standby or Suspend. <b>Note: If APM is installed, and there is a task running, even when the timer is time out, the APM will not prompt the BIOS to put the system into any power saving mode. But if APM is not installed, this option has no effect.</b>
• Video Off Option	<i>Susp,</i> <i>Stby → Off</i> <i>Always On</i>	Screen blanks after the system enters suspend mode. Screen blanks after the system enters standby mode. Screen is always on.



• 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 cards to monitor.
	<i>DPMS</i>	This function is enabled only for the VGA card supporting DPMS. <b>Note: When the green monitor does not detect the V/H-SYNC signals, the electron gun will be turned off.</b>
• Switch Function	<i>Break/Wake Disabled</i>	Sleep BTTN Enable.
• Doze Speed (div by)	<i>1/8 ~ 8/8</i>	Selects the throttling duty cycle 12.5%, 25%..... 87.5%, 100% to slow down the processor speed when the system is in doze mode.
• Stdbby Speed	<i>1/8 ~ 8/8</i>	Selects the throttling duty cycle 12.5%, 25%..... 87.5%, 100% to slow down the processor speed when the system is in standby mode.
• MODEM Use IRQ (div by)	<i>3, 5, 7, 9, 10, 11 NA</i>	Special wake-up event for Modem.
• Hot Key Function As	<i>Disabled Suspend Power Off</i>	Disables hot key. Set hot key (CTRL+ALT+Backspace) as suspend /power off key.
• HDD Off After	<i>1 ~ 15min</i>	Defines the continuous HDD idle time before the HDD enters the power saving mode(motor off).
• Doze mode	<i>Disabled</i>	HDD' s motor will not be off.
	<i>Disabled 1Min ~ 1 Hr</i>	The system never enters Doze mode. Defines the continuous idle time before the system enters Doze mode. If any items defined in "PM Events" are On and activated, the system will be woken up.
• Standby Mode	<i>Disabled</i>	The system never enters Standby mode.
	<i>Min ~ 1Hr</i>	Defines the continuous idle time before the system enters Standby mode. If any items defined in "PM Events" are On and activated, the system will be woken up.
• Suspend Mode	<i>Disabled</i>	The system never enters Suspend mode.
	<i>Min ~ 1Hr</i>	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.



## BIOS Description

- | Item                        | Setting            | Description  |
|-----------------------------|--------------------|--|
| • HDD Ports Activity        | <i>Enabled</i>     | HDD ports activity will wake up the system from Doze/Standby/Suspend mode.   |
|                             | <i>Disabled</i>    | HDD ports activity will not wake up the system from Doze/Standby/Suspend mode.   |
| • COM Ports Activity        | <i>Enabled</i>     | COM ports activity will wake up the system from Doze/Standby/Suspend mode.   |
| • LPT Ports Activity        | <i>Disabled</i>    | COM ports activity will not wake up the system.  |
|                             | <i>Enabled</i>     | LPT port activity will wake up the system from Doze/Standby/Suspend mode.  |
| • VGA Activity              | <i>Disabled</i>    | LPT port activity will not wake up the system.   |
|                             | <i>Enabled</i>     | VGA activity reloads global timer.   |
| • IRQ [3-7, 9-15], NMI      | <i>Disabled</i>    | VGA activity has no influence to global timer.   |
|                             | <i>Enabled</i>     | Enables the events which can reload global timer.  |
| • IRQ8 Break suspend        | <i>Disabled</i>    | Does not influence the global timer.   |
|                             | <i>Enabled</i>     | Generates a clock event.   |
| • Power Button Over Ride    | <i>Disabled</i>    | Does not generate a clock event.   |
|                             | <i>Instant Off</i> | The system will power off immediately once the the power button is pressed.  |
| • Ring/LAN Power up Control | <i>Delay 4 Sec</i> | The system will not power off until the power button is pressed continuously for more than 4 seconds.  |
|                             | <i>Enabled</i>     | Allows the system to be powered on when a ring indicator signal comes up to UART1 or UART2 from an external modem or comes up to WOM header from an internal modem card, or a remote wake up signal comes up to the WOL header from LAN adapter. |
| • KB Power On Password      | <i>Disabled</i>    | Does not allow wake up from internal/external modem or wake up on LAN.   |
|                             | <i>Enter</i>       | Set keyboard power on password.  |
| • Power up by Alarm         | <i>Enabled</i>     | Set keyboard power on password.  |
|                             | <i>Disabled</i>    | RTC alarm can be used to generate a wake event to power up the system. Set any date or time to power up the system.  |
|                             |                    | RTC has no alarm function.   |





## PNP/PCI Configuration Setup

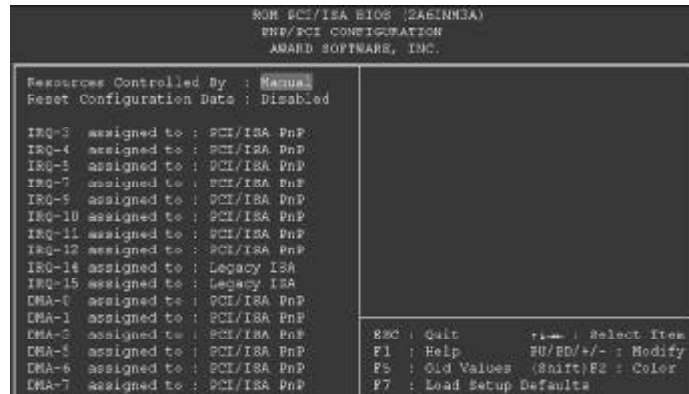


Figure-6 PNP/PCI Configuration Setup Menu

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

<u>Item</u>	<u>Option</u>	<u>Description</u>
• Resources Controlled By	<i>Manual</i>	Assigns the system resources ( IRQ and DMA) manually .
	<i>Auto</i>	Assigns system resources (IRQ and DMA) automatically by BIOS.
• Reset Configuration Data	<i>Enabled</i>	The system BIOS will reset configuration data once, then automatically set this item as Disabled.
	<i>Disabled</i>	Disables the configuration data function.
• IRQ-3~IRQ-15 assigned to	<i>Legacy ISA</i>	The specified IRQ-x will be assigned to ISA only.
	<i>PCI/ISA PnP</i>	The specified IRQ-x will be assigned to PNP ISA or PCI.
• DMA-0~DMA-7 assigned to	<i>Legacy ISA</i>	The specified DMA-x will be assigned to ISA only.
	<i>PCI/ISA PnP</i>	The specified DMA-x will be assigned to PNP ISA or PCI.



## Integrated Peripherals

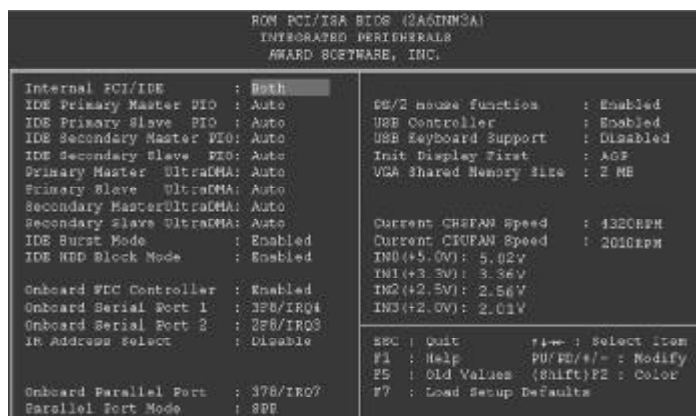


Figure-7 Integrated Peripherals Menu

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

Item	Option	Description
• Internal PCI/IDE	<i>Both</i> <i>Disabled</i> <i>Primary</i> <i>Secondary</i>	Enables both primary and secondary IDE ports. Disables both primary and secondary IDE ports. Enables the primary IDE port only. Enables the secondary IDE port only.
• IDE	<i>Mode 0 - 4</i>	Defines the IDE primary/secondary master/ slave PIO mode.
Primary/ Secondary Master/Slave PIO	<i>Auto</i>	The IDE PIO mode is defined by auto -detection.
• IDE	<i>Auto</i>	Ultra DMA mode will be enabled if Ultra DMA device is detected.
Primary/ Secondary Master/Slave UDMA	<i>Disabled</i>	Disables this function.
• IDE Burst Mode	<i>Enabled</i> <i>Disabled</i>	Default setting is suggested.
• IDE HDD Block Mode	<i>Enabled</i>  <i>Disabled</i>	Allows IDE HDD to read/write several sectors at once. IDE HDD only reads/writes a sector once.
• Onboard FDC Controller	<i>Enabled</i> <i>Disabled</i>	Onboard floppy disk controller is enabled. Onboard floppy disk controller is disabled.
• Onboard Serial Port 1/2	<i>3F8/IRQ4,</i> <i>2F8/IRQ3,</i> <i>3E8/IRQ4,</i> <i>2E8/IRQ3,</i> <i>Auto</i>	Defines the onboard serial port address and required interrupt number.  Onboard serial port address and IRQ are automatically assigned.



• IR Address Select	<i>Disabled</i> <i>Disabled</i> <i>2 E8H - 3E8F</i> <i>2F8H - 3F8H</i>	Onboard serial port is disabled. Defines the IrDA addresses, IRQ and IR mode.
• Onboard Parallel Port	<i>378/IRQ7,</i> <i>278/IRQ5,</i> <i>3BC/IRQ7</i>	Defines onboard parallel port address and IRQ channel.
• Parallel Port Mode	<i>Disabled</i> <i>SPP</i> <i>EPP</i> <i>ECP</i> <i>ECP+EPP</i>	Onboard parallel port is disabled. Defines the parallel port mode as standard Parallel Port(SPP), Enhanced Parallel Port(EPP), or Extended Capabilities Port(ECP).
• PS/2 mouse Function	<i>Enabled</i>  <i>Disabled</i>	Enables PS/2 mouse function when using PS/2 mouse.  If don't use PS/2 mouse, disabling this option can release the resource.
• USB Controller	<i>Enabled</i> <i>Disabled</i>	Enables onchip USB controller. Disables onchip USB controller.
• USB Keyboard Support	<i>Enabled</i> <i>Disabled</i>	USB keyboard support is enabled. USB keyboard support is disabled.
• Init Display First	<i>PCI SLOT</i> <i>AGP</i>	Initializes the PCI VGA first. Initializes the AGP first. For PCI VGA or AGP, the one initialized first functions.
• VGA Shared Memory Size	<i>2M/4M/8M</i>  <i>None</i>	If no onboard video memory is provided, part of main memory size(2M/4M/8M) can be set as shared video memory. Default setting is 8MB.  None of main memory is shared as video memory.
• Current CHSFAN Speed	<i>4320RPM</i>	RPM(Revolution Per Minute) speed of fan connected to the fan header CPUFAN or CHSFAN.
• Current CPUFAN Speed	<i>2010RPM</i>	Fan speed value is based on an assumption that tachometer signal is two pulses per revolution; In other cases, you should regard it relatively.
• IN0(+5.0V)	<i>5.02V</i>	Displays current voltage values including the significant voltages of the mainboard. +5.0V is the voltage from the ATX power supply. +3.3V is from onboard regulator. +2.5V is the power supply for clock chip. +2.0V is the CPU core voltage from the onboard switching power supply.
• IN1(+3.3V)	<i>3.36V</i>	
• IN2(+2.5V)	<i>2.56V</i>	
• IN3(+2.0V)	<i>2.01V</i>	



## 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.



## IDE HDD Auto Detection

The Enhanced IDE features are included in all Award BIOS. Below is a brief description of these features.

ROM PCI/ISA BIOS (2A69KQ10) CMOS SETUP UTILITY AWARD SOFTWARE, INC.								
HARD DISKS	TYPE	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE
Primary Master:								
Select Primary Master Option (N=Skip): N								
OPTION	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE	
2(Y)	541	525	32	0	1049	67	LBA	
1	541	1050	16	65535	1049	63	NORMAL	
3	541	525	32	65535	1049	63	LARG	
Note: Some OSes (like SCO-UNIX) must use "NORMAL" for installation								
ESC: Skip								

Figure-8 IDE HDD Auto Detection Menu

### 1. Setup Changes

#### With auto-detection

- BIOS setup will display all possible modes supported by the HDD including NORMAL, LBA and LARGE.
- If HDD does not support LBA modes, no "LBA" option will be shown.
- If number of physical cylinder is less than or equal to 1024, "LARGE" option may not be shown.
- Users can select their appropriate mode .

#### With Standard CMOS Setup

	CYLS	HEADS	PRECOMP	LAND	SECTOR	MODE
				ZONE		
Drive C: User(516MB)	1120	16	65535	1119	59	Normal
Drive D: None(203MB)	684	16	65535	685	38	-----

When HDD type is in "user" type, the "MODE" option will be available for users to select their own HDD mode.



## 2. HDD Modes

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.

## 3. 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.

## 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.



## Chapter 4

### YAMAHA Audio Description

Onboard audio system is based on the high performance Yamaha YMF740 PCI audio controller and AC97 audio decoder. It incorporates the best features of Sound Blaster™, Sound Blaster™Pro, Microsoft Windows Sound System and MPU-401 for all multimedia applications, entertainment, educational sound and business audio.

#### Features

- PC97/PC98 specification compliant.
- PCI Bus Power Management rev1.0 compliant.
- PCI Bus Master for audio:
  - Maximum 32-voice XG capital Wavetable.
  - Synthesizer including GM compatibility.
  - DirectSound Hardware Acceleration.
  - DirectMusic Hardware Acceleration.
  - Downloadable Sound (DSL) level-1.
- Supports PC/PCI for legacy DMAC(8237) emulation.
- Legacy Audio compatibility.
  - Genuine OPL3.
  - Hardware Sound Blaster Pro compatibility.
  - MPU401 UART mode MIDI interface.
- Provides onboard Mic-in jack, Line-in jack, speaker-out jack and MIDI/Joystick connector.
- Provides Hardware Volume Control.

#### YAMAHA Software Installation

Before you begin:

All of the installation instructions assume that the CD-ROM disk is located in drive D: and that Windows 95/98 is in C:\Windows. Replace either with the actual location if necessary.

##### 1. Installation of Windows 95/98 Driver

There are two ways to install the Windows 95/98 drivers. One is by using normal PnP installation of Windows. Another is by using the Yamaha Driver Installer. Please note, if using normal PnP installation, the system will prompt you for the Yamaha audio driver during Windows 95/98 startup, direct the path to D:\DevDrv\Sound\Yamaha\Driver\Win95\98 and run setup.exe.







## 2. Installation of Dos/Windows 3.1x Driver

Before installing the audio drivers from the CD-ROM, a CD-ROM drive must be installed and working properly in your system. If you have not yet installed a CD-ROM drive and associated driver, refer to your CD-ROM drive's documentation for instructions. Use the diskette provided with the CD-ROM drive to install the needed driver.

To install the audio drivers from the CD-ROM:

- Start your system.
- Insert the QDI Mainboard Utility CD into your CD-ROM drive.
- At the DOS prompt, change to the drive containing your CD-ROM. For example, type D:.
- Change to the directory \DevDrv\Sound\Yamaha\Driver\RealDOS.
- Type INSTALL, then press <Enter>.
- Follow the instructions presented on the screen to complete the installation.

## 3. Installation of Windows NT 4.0 Driver

There are two ways to install the WindowsNT 4.0 drivers. One is by using normal audio installation of Windows NT4.0. Another is by using the Yamaha Driver Installer, direct the path to D:\DevDrv\Sound\Yamaha\Driver\InstNT and run setup.exe.

### Normal Audio Installation under Windows NT 4.0

- Log on to Windows NT 4.0.
- Insert the QDI Mainboard Utility CD into the CD-ROM drive.
- Double click the **Multimedia** icon in the **Control Panel**, then click on the **Devices** tab.
- Press the **ADD** button, and select "**Unlisted or Updated Drivers**", then press the **OK** button.
- A dialog box appears requesting the path of the location for the drivers. Click the **Browse** button and direct the path to D:\DevDrv\Sound\Yamaha\Driver\winNT.
- The *Add Unlisted or Updated Driver* window then appears prompting you to select a language. Click on the desired language in the list then click on the **OK** button.





- If the *Driver Exists* window appears as shown below, click the **New** button to overwrite the existing driver.



- Windows NT will now copy the necessary files to your computer. When the *YAMAHA DS-XG Audio Driver* window appears, verify that the MPU401 I/O address, IRQ and joystick I/O address settings are correct as shown in the figure below. Click the **OK** button to continue.



- You will be prompted to restart your computer now. Click the **Restart Now** button.

For more information, please refer to the file *instnt.pdf* in the directory  
D:\DevDrv\Sound\Yamaha\Driver\Guide



## Appendix A

### QDI Mainboard Utility CD-ROM

A QDI Mainboard Utility CD-ROM is supplied with each mainboard. The contents used for this mainboard are:

1. Chipset Drivers:  
SiS620 Chipset Driver included in the directory \ChipDrv\SiS\SiS620\Iddrv is used for this mainboard. First copy the file Uide100.exe to a user directory on the hard disk and extract it. Then install the SiS620 IDE driver accordingly:
  - a. For Window95/98, run ...\\Win9X\\Setup.exe for installation.
  - b. For Windows NT, follow the steps contained in the readme file (...\\NT\\Readme.txt), and install the SiS620 Chipset IDE driver.
2. Onchip VGA Drivers  
The VGA drivers included in the directory \\DevDrv\\VGA\\SiS620\\CD-VER are for the SiS620 onchip VGA.  
Run \\DevDrv\\VGA\\SiS620\\CD-VER\\Win9X\\Setup.exe to install Window 95/98 driver.  
For Windows NT driver, when the system prompts for the driver, direct the path to \\DevDrv\\VGA\\SiS620\\CD-VER\\Winnt40.
3. Onboard Audio Drivers  
The audio drivers included in the directory\\DevDrv\\Sound\\Yamaha\\Driver are for the onboard Yamaha YMF 740 PCI audio.  
Run \\DevDrv\\Sound\\Yamaha\\Driver\\Real Dos\\Install.exe to install Dos/Windows 3.1x driver.  
Run \\DevDrv\\Sound\\Yamaha\\Driver\\Inst 95&98\\Setup.exe to install Windows95 & 98 driver.  
Run \\DevDrv\\Sound\\Yamaha\\Driver\\InstNT\\Setup.exe to install Windows NT 4.0 driver.
4. PC-cillin Anti-Virus software:  
For Windows 95/98 English version, it is located in the directory \\Pccillin\\Win9X. Run Setup.exe for installation.  
For Windows NT English version, it is located in the directory \\Pccillin\\WinNT4.0. Run Setup.exe for installation. S/N is PNEF-9991-6558-5857-5535.
5. QDI Mainboard Utility:  
The utilities located in the directory \\Utility are:  
FLASH.EXE  
CBLOGO.EXE  
LFEXE  
Refer to the online help for information on how to use these utilities.



## Appendix B.

### Boot Logo

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



If you press <Esc>, it switches to the booting message screen. Otherwise, it enters operating system directly. You can use “**cblogo.exe**” ( included on the QDI Mainboard Utility CD) to replace it by any other logo which you prefer. Regarding the method of using **cblogo.exe** utility, please refer to it's online help. If you don't prefer the logo displayed on the screen during boot up, set the “Show Bootup Logo” option as Disabled in the ‘ BIOS FEATURES SETUP’ section of the BIOS

**\* We reserve the right of modifying the default full-logo of QDI without further notification.**



### Item Checklist

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

- ☒ Superb 2 mainboard
- ☒ QDI Mainboard Utility CD-ROM
- ☒ I/O shield
- ☒ 1 IDE ribbon cable
- ☒ 1 floppy ribbon cable
- ☐ 1 9-pin ribbon cable with bracket for serial port 2 (manufacturing option).
- ☒ User' s manual

### Notice

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