630TM

User's Manual Version 1.0

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Chapter 1

1.1 Introduction

The 630TM motherboard is designed for using Intel PIII Celeron and Tualatin CPU, which utilize the Socket-370 design and the memory size expandable to 1.0GB.

This motherboard use the newest SiS 630T chipset, appling 133MHz Front Side Bus frequency and 133MHz memory interface delivers a clear upgrade path to the future generation of 133MHz processors, PC-100/PC-133 SDRAM DIMM. The 630TM motherboard offers ULTRA ATA 100 to provide speedier HDD throughout that boosts overall system performance.

It is ideal for multi-tasking and fully supporting MS-DOS, Windows, Windows NT , Windows ME, Windows 2000, Novell, OS/2, Windows95/98, Windows 98SE, Windows XP, UNIX, Liunx , SCO UNIX etc. This manual also explains how to install the mainboard for operation, and how to setup your CMOS configuration with the BIOS setup program.

1.2 Package Contents

- HDD UDMA66/100 Cable.
- FDD Cable.
- -Flash Memory written for BIOS update.
- USB2 Cable **(Optional)**.
- Fully Setup CD Driver built in utility(Ghost, Anitivirus, Adobe Acrobat).
- Manual.

1.3 Features

CPU Processor

- Support Pentium®III 500~1.2GHz processor.
- Support Celeron™533~1.2GHz or higher processor.
- Support 66, 100 and 133MHz CPU Bus clock.
- Reserves support for future Intel Pentium® III processors.

Chipset

- SiS 630T Chipset.

DIMM DRAM Memory

- Supports 64/128/256/512....MB SDRAM module socket.
- Supports Synchronous DRAM(3.3V)
- Supports a maximum memory size of 1GB with SDRAM.

Clock Generator

- Support 66/100/133MHz system Bus Clock (CPU Bus Clock).
- Support 100/133 MHz system memory clock.
- Support 33MHz PCI Bus clock.

Expansion Slots

- Provide one AMR slot.
- Three 32-bit PCI bus.

Flash Memory

- Support 2MB flash memory.
- Support ESCD Function.

1.3 Features

Integrate VGA

- 3D graphic acceleration.
- VGA Memory Selectable by BIOS from 2MB to 64MB.

Integrate LAN

- Fast Ethernet Controller 10/100 Mbps.

IDE Built-in On Board

- Supports four IDE devices.
- Supports PIO Mode 5, Master Mode, high performance hard disk drives.
- Support Ultra DMA 33/66/100 Bus Master Mode.
- Supports IDE interface with CD-ROM.
- Supports high capacity hard disk drives.
- Support LBA mode.

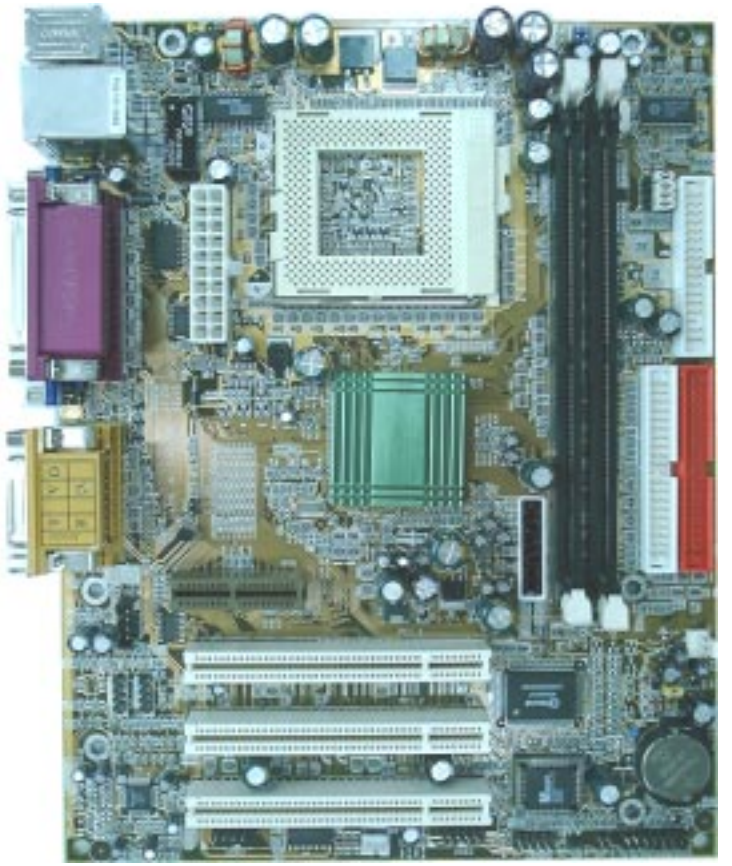
PCI-Based AC 97 Digital Audio Processor

- AC 97 2.1 interface.
- 16 channels of high-quality sample rate conversion.
- 16x8 channel digital mixer.
- Stereo 10 band graphic equalizer.
- Sound Blaster and Sound Blaster Pro emulation.

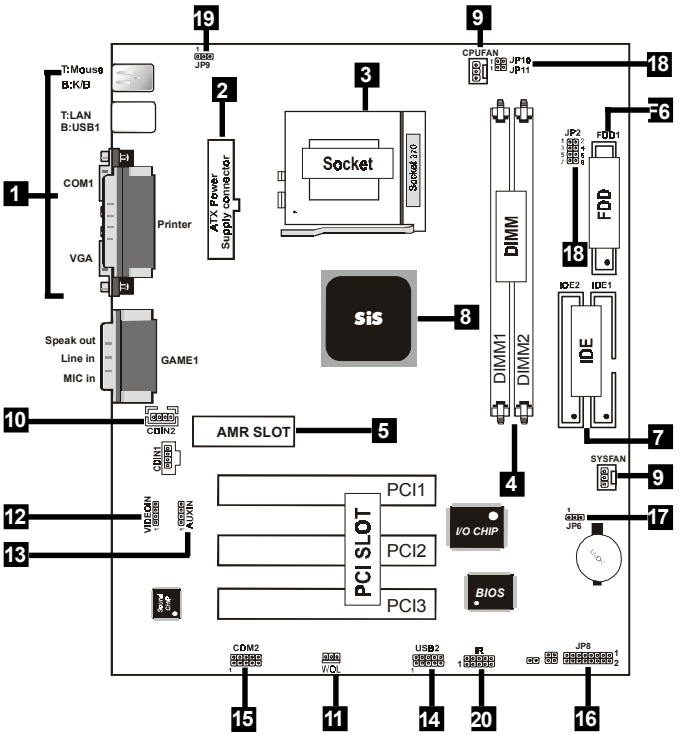
WOL (Wake On LAN)

- Supports system power up from LAN ring up.

1.4 630TM Motherboard Layout



1.4 630TM Layout



1. Back Panel I/O Connectors (Mouse, Keyboard, USB1, VGA, Printer, MIC in, Line in, Speaker out, Game stick)
2. ATX Power Connector (ATX)
3. CPU Processor (Socket 370)
4. DIMM SDRAM Sockets (DIMM1/DIMM2)
5. AMR Slot

6. Floppy Connector
7. IDE Connectors (IDE1/IDE2)
8. Chipset (SiS 630T)
9. Fan Connectors (CPUFan1/SYSFan)
10. CD Audio-In Connectors (CDIN1/CDIN2)
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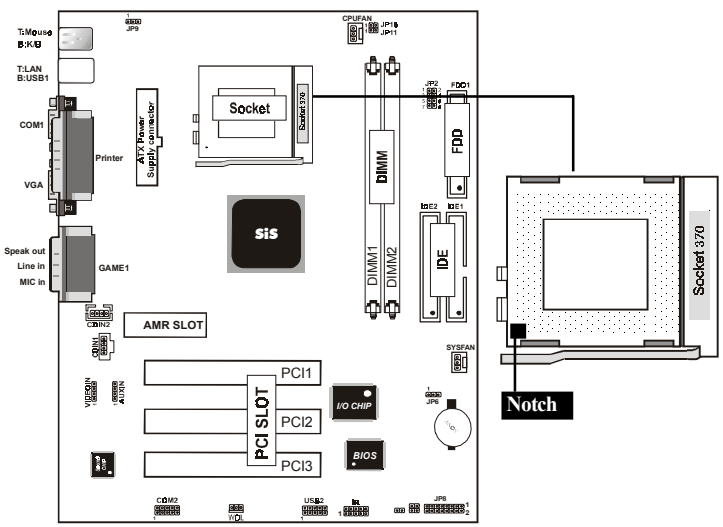
12. Video in Connector (Video_IN)
13. Aux in Connector (AUX_IN)
14. Front USB2 Connector
15. Front COM2 Connector
16. Front Panel Connector (JP8)
17. CMOS Function Selection (JP6)
18. CPU Clock Freq. Setting (JP2/JP10/JP11)
19. Keyboard Power on Function Setting (JP9)
20. IR Connector

1.5 CPU Installtion

The motherboard operates with Socket 370 for Intel PIII™ processor. The CPU should always have a Heat Sink and cooling fan attached to prevent overheating.

CPU Installation Procedures: Socket 370

1. Pull the lever sideways away from the socket then raise the lever to a 90-degree angle.
2. Locate Pin 1 in the socket and look for the white dot or cut edge in the CPU. Match Pin 1 with the white dot/cut edge then insert the CPU.
3. Press the lever down to complete the installation.
4. **Make sure the spec of the heatsink is good enough or the processor and motherboard will damage.**



1.6 DIMM DRAM Installtion

The motherboard supports a maximum 1GB memory. It provides two 168-pin unbuffered DIMM sockets. It supports 16MB to 1GB DIMM memory module.

DIMM DRAM Installation Procedures:

1. The DIMM socket has a "Plastic Safety Tab" and the DIMM memory module has an asymmetrical notch", so the DIMM memory module can only fit into the slot in one direction.
2. Push the tabs out. Insert the DIMM memory modules into the socket at a 90-degree angle then push down vertically to fit onto place.
3. The Mounting Holes and plastic tabs should fit over the edge and hold the DIMM memory modules in place.

Bank	Memory module
DIMM 1	32MB, 64MB, 128MB, 256MB, 512MB
(Bank 0-1)	168 pin, 3.3V SDRAM
DIMM 2	32MB, 64MB, 128MB, 256MB, 512MB
(Bank 2-3)	168 pin , 3.3V SDRAM
	Total System Memory (Max 1GB)

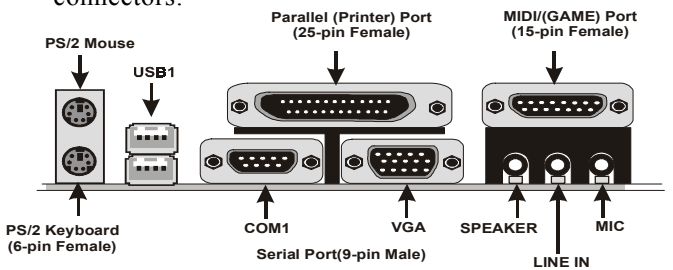
Note:

For the SDRAM CLOCK is set at 133MHz, use only PC133-compliant DIMMs. When this motherboard operate at 133Mhz, most system will not even boot if non-compliant modules are used because of the strict timing issues, if your DIMM are not PC133-compliant, set the SDRAM clock to 100MHz to ensure system stability.

1.7 Connectors & Jumpers Setting

1.7.1 Back Panel I/O Connectors

The motherboard provides the following back panel connectors:



1.7.1.1 PS/2 Mouse / Keyboard CONN.

The motherboard provides a standard PS/2 mouse / Keyboard mini DIN connector for attaching a PS/2 mouse. You can plug a PS/2 mouse / Keyboard directly into this connector.

1.7.1.2 USB Connector: USB1

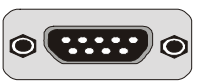
The motherboard provides a OHCI(Open Host Controller Interface)Universal Serial Bus Roots for attaching USB devices such as a keyboard, mouse and other USB devices. You can plug the USB devices directly into this connector.

Pin	Signal
1	+5V_SB
2	USBP0-(USBP1-)
3	USBP0+(USBP1+)
4	GND

1.7.1.3 The Serial Interface: COM1

The serial interface port is sometimes refered to as an RS-232 port or an asynchronous communication port. Mice, printers, modems and other peripheral devices can be connected to a serial port. The serial port can also be used to connect your computer system. If you like to transfer the contents of your hard disk to another system, it can be accomplished by serial port.

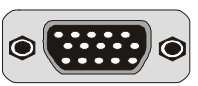
COM1



1.7.1.4 VGA Interface Connector:VGA(15 Pin)

This connector is for output to VGA-compatible devices.

VGA



1.7.1.5 Parallel Interface Port

Unlike serial ports, parallel interface ports have been standardized and should not present any difficulty interfacing peripherals to your system. Sometimes called a Centronics port, the parallel port is almost exclusively used with printers. The parallel port on your system has a 25-pin, DB 25 connector.

1.7.1.6 Joystick / Midi Connector

You can connect a joystick or game pad to this connector.

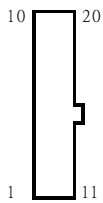
1.7.1.7 Audio Port Connectors

Speaker out is a connector for Speakers or Headphones. Line in is used for external CD player, Tape player, or other audio devices. Mic is a connector for the microphones.

1.7.2 ATX Power Connector: ATX

This connector supports the power button on-board. Using the ATX power supply, functions such as Modem Ring Wake-Up and Soft Power Off are supported on this motherboard .

This power connector supports instant power-on functionality, which means that the system will boot up instantly when the power connector is inserted on the board.



Pin ATX	Signal	Pin ATX	Signal
1	3.3V	11	3.3V
2	3.3V	12	-12V
3	GND	13	GND
4	5V	14	PS-ON
5	GND	15	GND
6	5V	16	GND
7	GND	17	GND
8	PW-OK	18	-5V
9	5V_SB	19	5V
10	12V	20	5V

Note:

Turn off your power when adding or removing expansion cards or other system components. Failure to do so may cause severe damage to both your motherboard and expansion cards.

1.7.3 Floppy Disk Connector (34-pin): FDC

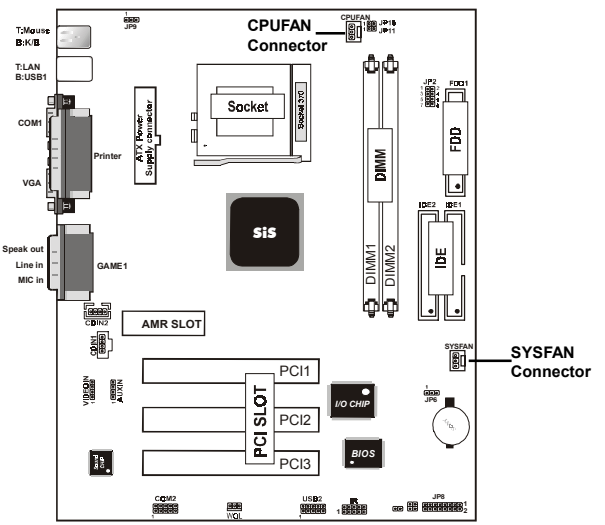
This connector supports the provided floppy drive ribbon cable. After connecting the single end to the board, connect the two plugs on the other end to the floppy drives.

1.7.4 Hard Disk Connectors (40-pin): IDE1/IDE2

These connectors support the provided IDE hard disk ribbon cable. After connecting the single end to the board, connect the two plugs at the other end to your hard disk.

If you install two hard disks, you must configure the second drive to Slave mode by setting its jumper settings. BIOS now supports SCSI device or IDE CD-ROM boot up (see "HDD Sequence SCSI/IDE First" & "Boot Sequence" in the BIOS Features Setup of the BIOS SOFTWARE) (Pin 20 is removed to prevent inserting in the wrong orientation when using ribbon cables with pin 20 plugged).

1.7.5 Fan Connectors: CPUFan/SYSFan

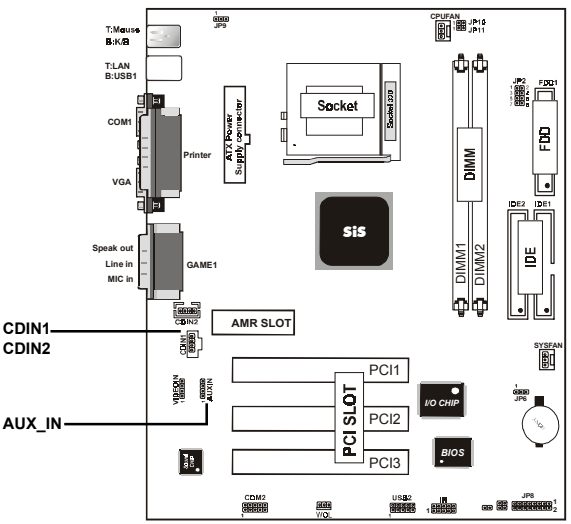


Pin Fan	Definition
1	Ground
2	+12VDC
3	Signal

These connectors support cooling fans of 1Amp or less. Orientate the fans so that the heatsink fins allow airflow to go across the onboard heat sink(s) instead of the expansion slots. Depending on the fan manufacturer, the wiring and plug may be different. The red wire should be positive, while the black should be ground. Connect the fan's plug to the board taking into consideration the polarity of the this connector.

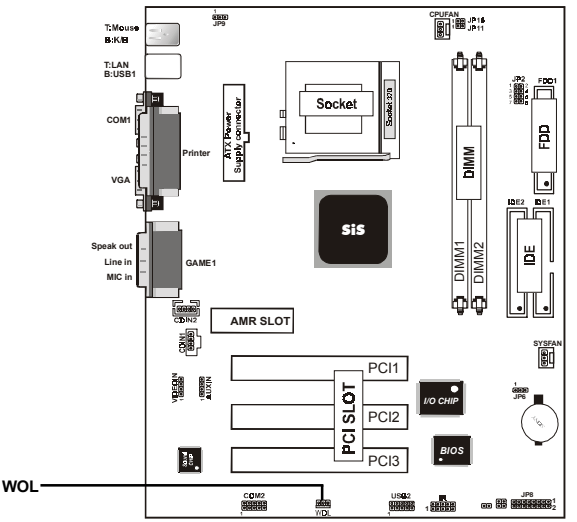
1.7.6 CD Audio-In Connectors: CD-IN1/CDIN2

CDIN1 and CDIN2 are the connectors for CD-Audio Input signal. Please connect it to CD-ROM CD-Audio output connector.



1.7.7 AUX-In Connector: AUX_IN

1.7.8 Wake-On-LAN Connector: WOL

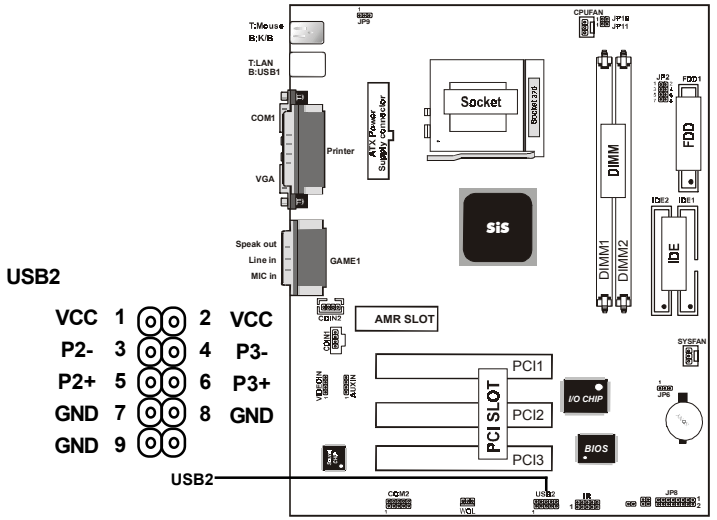


Pin	Definition
1	5V_SB
2	Ground
3	Signal

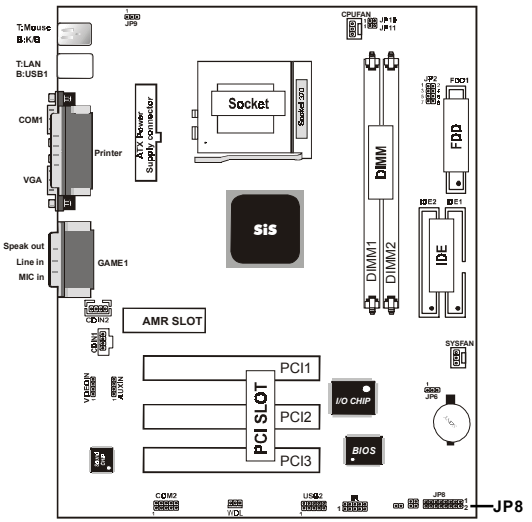
NOTE:

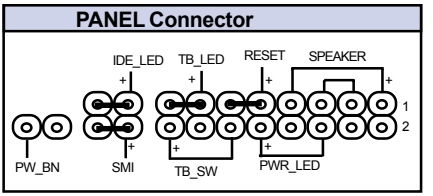
(This feature requires that Wake up LAN or Ring in Wake up is enabled .)

1.7.9 Front USB2 Connector: USB2



1.7.10 Front Panel Connector: JP8





ATX Power Switch (PW_BN)

The system power is controlled by a momentary switch connected to this lead. Pushing the button once will switch the system ON. The system power LED lights when the system's power is on .

Power LED Lead (PWR_LED)

The system power LED lights when the system power is on.

Speaker Connector (SPEAKER)

An offboard speaker can be installed onto the motherboard as a manufacturing option. An offboard speaker can be connected to the motherboard at the front pannel connector. The speaker (onboard or offboard) provides error beep code information during the Power Self-Test when the computer cannot use the video interface. The speaker is not connected to the audio subsystem and does not receive output from the audio subsystem.

Hard Drive LED Connector (IDE_LED)

This connector supplies power to the cabinet IDE activity LED. Read and write activity by devices connected to the Primary or Secondary IDE connectors will cause the LED to light up.

Turbo LED switch (TB_LED)

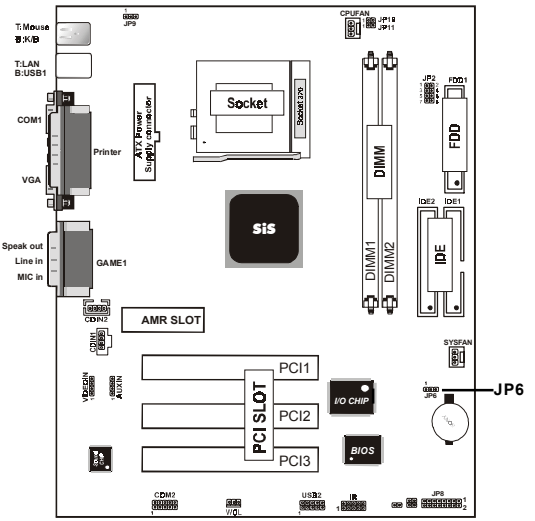
Since the motherboard turbo function is always on. The turbo LED will remain constantly on while the system power is on. You may wish to connect the Power LED from the system case to this lead.

Reset Switch Lead (RESET)

The connector can be connected to a momentary SPST type switch that is normally open. When the switch is closed, the motherboard resets and runs the POST.

1.7.11 CMOS Function Selection: JP6

A battery be used to retain the mainboard configuration in CMOS RAM.



Pin	Definition
1-2	Clear CMOS
2-3	Normal (Default)

NOTE:

(Please follow the procedure below to clear CMOS data.)

(1)Remove the AC power line.

(2)JP6(1-2)Closed.

(3)Wait five seconds.

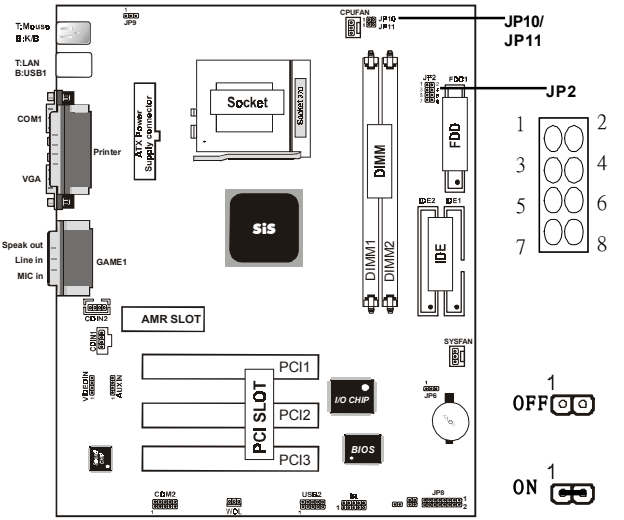
(4)JP6(2-3) Closed.

(5)AC Power on.

(6)Reset your desired password or clear CMOS data.

1.7.12 CPU Clock Freq. Setting: JP2/JP10/JP11

Overclocking is operating a CPU/Processor beyond its specified frequency. JP2 jumper is used for the CPU Front Side Bus Frequencies from 66MHz to 133MHz.

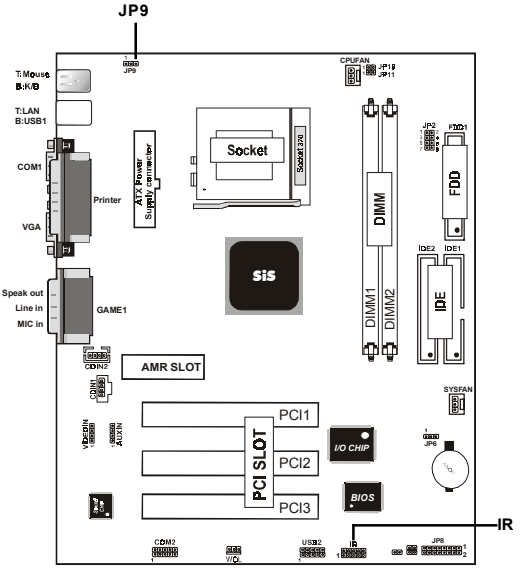


CPU (MHz) /SDRAM	JP2 1-2	JP2 3-4	JP2 5-6	JP2 7-8	JP10 1-2	JP11 1-2
Auto	OFF	OFF	OFF	OFF	ON	ON
66/66	OFF	OFF	OFF	ON	OFF	OFF
66/100	OFF	OFF	OFF	OFF	OFF	OFF
100/100	ON	OFF	OFF	OFF	OFF	OFF
100/133	ON	OFF	ON	OFF	OFF	OFF
133/100	ON	ON	OFF	OFF	OFF	OFF
133/133	ON	ON	ON	OFF	OFF	OFF

Note:

We don't recommend you overlocking, since it will make the CPU life short and get the risk of CPU damage.

1.7.13 Keyboard Power on Function Setting: JP9



Pin JP9	Definition
1-2	Disabled (Default)
2-3	Enabled

Pin IR	Definition	Pin IR	Definition
1	+5V	2	
3		4	CIRRX
5	IRRX1	6	5VSB
7	GND	8	
9	IRTX	10	

1.7.14 IrDA Connector: IR

Chapter 2

Introduction

This chapter discusses the Award Setup program built into the ROM BIOS. The Setup program allows the user to modify the basic system configuration. This special information is then stored in battery-backed RAM so that it retains the setup information when the power is turned off.

The Award BIOS installed in your computer system's ROM (Read Only Memory)is a custom version of an industry standard BIOS. This means that it supports Intel PIII Celeron and Tualatin CPU Processor. The BIOS provides critical low-level support for standard devices such as disk drives and serial and parallel ports.

The rest of this manual is intended to guide you through the process of configuring your system using Setup.

Plug and Play Support

This AWARD BIOS supports the Plug and Play Version 1.0A specification. ESCD(Extended System Configuration Data)write is supported.

EPA Green PC Support

This AWARD BIOS supports Version 1.03 of the EPA Green PC specification.

PCI Bus Support

This AWARD BIOS also supports Version 2.1 of the Intel PCI (Peripheral Component Interconnect)local bus specification.

APM Support

This AWARD BIOS supports Version 1.1&1.2 of the Advanced Power Management(APM) specification.Power management features are implemented via the System Management Interrupt(SMI). Sleep and Suspend power management modes are supported. Power to the hard disk drives and video monitors can be managed by this AWARD BIOS.

DRAM Support

SDRAM (Synchronous DRAM) are supported.

Support CPU

This AWARD BIOS supports the Intel PIII Celeron and Tualatin CPU Processor.

Using Setup

In general, you use the arrow keys to highlight items, press <Enter>to select, use the <PgUp>and <PgDn>keys to change entries, press<F1>for help and press <Esc>to quit. The following table provides more detail about how to navigate in the Setup program by using the keyboard.

Note:

(BIOS version 1.0 is for reference only. If there is a change in BIOS version, please use the actual version on the BIOS.)

Keystroke	Function
Up arrow	Move to previous item
Down arrow	Move to next item
Left arrow	Move to the item on the left(menu bar)
Right arrow	Move to the item on the right(menu bar)
Esc	Main Menu: Quit without saving changes Submenus: Exit Current page to the next higher level menu
Move Enter	Move to item you desired
PgUp key	Increase the numeric value or make changes
PgDn key	Decrease the numeric value or make changes
+Key	Increase the numeric value or make changes
-Key	Decrease the numeric value or make changes
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
F1 Key	General help on Setup navigation keys.
F5 Key	Load previous values from CMOS
F6 Key	Load the fail-safe defaults from BIOS default table
F7 Key	Load the optimized defaults
F10 Key	Save all the CMOS changes and exit

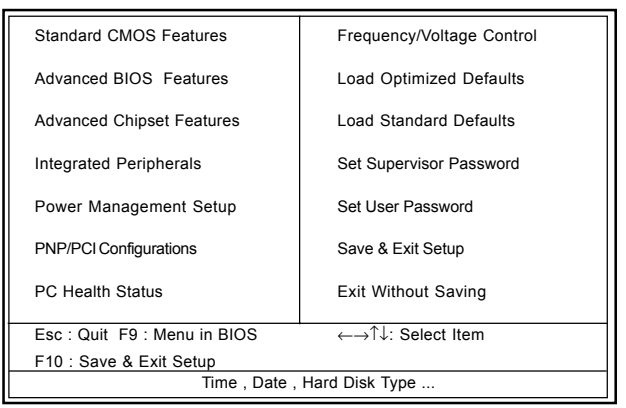
2.1 Main Menu

Once you enter AWARD BIOS CMOS Set up Utility, the Main Menu will appear on the screen. The Main Menu allows you to select from several setup function. Use the arrow keys to select among the items and press<Enter> to accept and enter the sub-menu.

"WARNING"
The information about BIOS defaults on manual (Figure 1,2,3,4,5,6,7,8,9,10,11,12,13,14)is just for reference, please refer to the BIOS installed on the board for updated information.

◎ Figure 1. Main Menu

CMOS Setup Utility-Copyright (C) 1984-2001 Award Software



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 the BIOS special enchanced features.

Advanced Chipset Features

This setup page includes all the items of the Chipset special enchanced features.

Integrated Peripherals

This selection page includes all the items of the IDE hard drive and Programmed Input/Output features.

Power Management Setup

This setup page includes all the items of the power manage ment features.

PnP/PCI Configurations

This setup page includes the user defined or default IRQ Setting.

PC Health Status

This page shows the hardware Monitor information of the system.

Frequency / Voltage Control

This setup page controls the CPU's clock and frequency ratio.

Load Optimized Defaults

These settings are more likely to configure a workable computer when something is wrong. If you cannot boot the computer successfully, select the BIOS Setup options and try to diagnose the problem after the computer boots. These settings do not provide optional performance.

Load Standard Defaults

Use this menu to load the BIOS default values for the minimal/stable performance for your system to operate.

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

You can specify both a User and a Supervisor password. When you select either password option, you are prompted for a 1-6 character password. Enter the password and then retype the password when prompted.

Save & Exit Setup

Save CMOS value changes to CMOS and exit setup.

Exit Without Saving

Abandon all CMOS value changes and exit setup.

2.2 Standard CMOS Features

This item in the Standard CMOS Setup Menu is divided into 10 categories. Each category includes no, one or more than one setup items. Use the arrow keys to highlight the item and then use the <PgUp> or <PgDn> keys to select the value you want in each item.

◎ Figure 2. Standard CMOS Features

CMOS Setup Utility-Copyright (C) 1984-2001 Award Software

Standard CMOS Features

Date(mm:dd:yy)	Tue,Jun 6 2000	Item Help
Time (hh:mm:ss)	11:26:10	Menu Level
IDE Primary Master	Press Enter None	
IDE Primary Slave	Press Enter None	Change the day,
IDE Secondary Master	Press Enter None	month,year
IDE Secondary Master	Press Enter None	and century.
Drive A	1.44M,3.5 in	
Drive B	None	
Video	EGA/VGA	
Halt On	All,But Keyboard	
Base Memory	640K	
Extended Memory	65472K	
Total	1024K	

←→↑↓: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit
F1:General Help F5:Previous Values F6:Fail-Safe Defaults
F7:Optimized Defaults

Main Menu Selections

This table shows the selections that you can make on the Main Menu.

Item	Options	Description
Date	Month DD YYYY	Set the system,date. Note that the 'Day' automatically changes when you set the data.
IDE Primary Master	Options are in its sub menu.	Press<Enter> to enter the sub menu of detailed.
IDE Primary Slave	Options are in its sub menu.	Press<Enter> to enter the sub menu of detailed.
IDE Secondary Master	Options are in its sub menu.	Press<Enter> to enter the sub menu of detailed.
IDE Secondary Slave	Options are in its sub menu.	Press<Enter> to enter the sub menu of detailed.
Drive A Drive B	None 360K,5.25in 1.2M,5.25in 720K,3.5in 1.44M,3.5in 2.88M,3.5in	Select the type of floppy disk drive installed in your system.
Video	EGA/VGA CGA 40 CGA 80 MONO	Select the default video device.

Item	Options	Description
Halt On	All Errors No Errors All, but Keyboard All, but Diskette All, but Disk/Key	Select the situation in which you want the BIOS to stop the POST process and notify.
Base Memory	N/A	Displays the amount of conventional memory detected during boot up.
Extended Memory	N/A	Displays the amount of conventional memory detected during boot up.
Total Memory	N/A	Displays the total memory available in the system.

CMOS Setup Utility-Copyright (C) 1984-2001Award Software IDE Primary Master

IDE HDD Auto-Detection	Press Enter	Item Help
IDE Primary Master	Auto	
Access Mode	Auto	Menu Level
Capacity	13022MB	
Cylinder	25232	
Head	16	
Precomp	0	
Landing Zone	25231	
Sector	61	

←→↑↓: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit
F1:General Help F5:Previous Values F6:Fail-Safe Defaults
F7:Optimized Defaults

2.3 Advanced BIOS Features

◎ Figure 3. Advanced BIOS Features

CMOS Setup Utility-Copyright (C) 1984-2001 Award Software

Advanced BIOS Features

Virus Warning	Disabled	Item Help
CPU Internal Cache	Enabled	
External Cache	Enabled	Menu Level
CPU L2 Cache ECC Chescking	Disabled	
Processor Number Feature	Enabled	Allows you to
Quick Power On Self Test	Enabled	choose the
First Boot Device	Floopy	VIRUS warning
Second Boot Device	HDD-0	feature for IDE
Third Boot Device	LS120	Hard Disk boot
Fourth Boot Device	Disabled	sector protection.
Swap Floppy Drive	Disabled	If this function
Boot Up Floppy Seek	Enabled	is enabled and
Boot Up NumLock Status	Off	someone attempts
Gate A20 Option	Fast	to write data into
Typematic Rate Setting	Disabled	this area,BIOS
Typematic Rate (Chars/Sec)	6	will show a
Typematic Delay (Msec)	250	warning message
Security Option	Setup	on screen and
OS Select For DRAM >64MB	Non-OS2	sound an alarm

←→↑↓: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit
F1:General Help F5:Previous Values F6:Fail-Safe Defaults
F7:Optimized Defaults

Virus Warning

This option allows you to choose the VIRUS Warning feature for IDE Hard Disk boot sector protection. If this function is enabled and someone attempts to write data into this area, BIOS will show a warning message on screen and alarm beep.

The Choices: Disabled(default), Enabled.

CPU Internal Cache

These two categories speed up memory access. However, it depends on CPU/chipset design.

Enabled (default) Enabled cache.

Disabled Disabled cache.

External Cache

This fields allow you to Enable or Disable the CPU'S "Level 2" secondary cache. Caching allows better performance.

Enabled (default)	Enabled cache.
Disabled	Disabled cache.

CPU L2 Cache ECC Checking

The item allows you to enable/disable CPU L2 Cache ECC Checking.

The Choices: Disabled(default), Enabled.

Processor Number Feature

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

Enabled (default)	Pentium Processor Number Feature.
Disabled	Disabled.

Quick Power On Self Test

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

Enabled (default)	Enabled quick POST.
Disabled	Normal POST.

First/Secondary/Third Boot Device

This BIOS attempts to load the operating system from the devices in the sequence selected in these items.

The Choices: Floppy, LS120, HDD-0, SCSI, CDROM, HDD-1, HDD-2, HDD-3, ZIP100, LAN, Disabled.

Fourth Boot Device

The Choices: Disabled(default), Enabled.

Swap Floppy Drive

If the system has two floppy drives, you can swap the logical drive name assignments.

The Choices: Disabled(default), Enabled.

Boot Up Floppy Seek

Seek disk drives during boot up. Disabled speeds boot-up.

The Choices: Enabled(default), Disabled.

Boot Up NumLock Status

Select power on state for Numlock.

On	Numpad is number keys.
Off (default)	Numpad is arrow keys.

Gate A20 Option

Select if chipset or keyboard controller should control Gate A20.

Normal	A pin in the keyboard controller controls Gate A20.
Fast (default)	Lets chipset control Gate A20.

Typematic Rate Setting

Enabled	Enabled this option to adjust the keystroke repeat rate.
Disabled (default)	Disabled.

Typematic Rate (Char/Sec)

Range between 6**(default)** and 30 characters per second. This option controls the speed of repeating keystrokes.

Typematic Delay (Msec)

This option sets the time interval for displaying the first and the second characters.

The Choices: 250(default), 500, 750, 1000.

Security Option

This category allows you to limit access to the system and Setup, or just to Setup.

System	The system will not boot and access to Setup will be denied if the correct password is not entered in prompt.
Setup (default)	The system will boot, but access to Setup will be denied if the correct password is not entered in prompt.

OS Select For DRAM >64MB

Select the operating system that is running with greater than 64MB of RAM on the system.

The Choices: Non-OS2(default), OS2.

2.4 Advanced Chipset Features

This section allows you to configure the system based on the specific features of the installed chipset. This chipset manages bus speeds and access to system memory resources, such as DRAM and external cache. It also coordinates communications of the PCI bus. It must be stated that these items should never need to be altered. The default settings have been chosen because they provide the best operating conditions for your system. The only time you might consider making any changes would be if you discovered that data was lost while using your system.

◎ Figure 4. Advanced Chipset Features

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Advanced Chipset Features

Advanced DRAM Control 1	Press Enter	Item Help
System BIOS Cacheable	Enabled	
Video RAM Cacheable	Enabled	Menu Level
Memory Hole At 15M-16M	Disabled	
AGP Aperture Size	64MB	
Graphic Window WR Combin	Enabled	
Concurrent function (MEM)	Enabled	
Concurrent function (PCI)	Enabled	
CPU Pipeline Control	Enabled	
PCI Delay Transaction	Disabled	
Memory Parity Check	Disabled	

←→↑↓: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit
F1:General Help F5:Previous Values F6:Fail-Safe Defaults
F7:Optimized Defaults

Auto Configuration

If you leave this item at *Auto*, the system will automatically detect and configure any DRAM devices it finds. If it fails to find a memory module, change the value to *Manual* and then manually configure the memory module by entering its characteristics in the items below (SDRAM RAS,… etc.) Refer to your DRAM's documentation if you need to obtain this information.
The Choices: Auto(default).

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Advanced DRAM Control 1

Auto Configuration	Auto	Item Help
SDRAM RAS Active Time	5T	
SDRAM RAS Precharge Time	3T	Menu Level
RAS to CAS Delay	4T	
Dram Background Command	Delay 1T	
LD-Off Dram RD/WR Cycle	Delay 1T	
Write Recovery Time	2T	
VCM ACCT-ACT/REF Delay	9T	
Early CKE Delay 1T Cntrl	Normal	
Early CKE Delay Adjust	7ns	
Mem Command Output Time	Delay 1T	
SDRAM/VCM CAS Latency	3T	

←→↑↓: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit
F1:General Help F5:Previous Values F6:Fail-Safe Defaults
F7:Optimized Defaults

SDRAM RAS Active Time

This field let's you insert a timing delay between the CAS and RAS strobe signals, used when DRAM is written to, read from, or refreshed. Fast gives faster performance; and Slow gives more stable performance. This field applies only when synchronous DRAM is installed in the system.

The Choices: 5T(default), 6T.

SDRAM RAS Precharge Time

If an insufficient number of cycles is allowed for the RAS to accumulate its charge before DRAM refresh, the refresh may be incomplete and the DRAM may fail to retain date. Fast gives faster performance; and Slow gives more stable performance. This field applies only when synchronous DRAM is installed in the system.

The Choices: 3T(default), 2T.

RAS to CAS Delay

2T	Set RAS to CAS Delay in 2T.
3T	Set RAS to CAS Delay in 3T.
4T (default)	Set RAS to CAS Delay in 4T.

Dram Background Command

When the delay is set at 1T, background commands are issued 1 clock cycle behind the memory address (MA) which has been issued. When set to normal, background commands and MAs are issued at the same time.
The Choices: Delay 1T(default).

LD-Off Dram RD/WR Cycle

When the delay is set at 1T, memory read and write commands are issued 1 clock cycle behind the memory address (MA) which has been issued. When set to Normal, read/write commands and MAs are issued at the same time.
The Choices: Delay 1T(default).

SDRAM /VCM CAS Latency

2T	Set SDRAM/VCM CAS latency Time to 2T.
3T (default)	Set SDRAM/VCM CAS latency Time to 3T.

System BIOS Cacheable

When enabled, the access to the system BIOS ROM address at F0000H-FFFFFFH is cached.
The Choices: Enabled(default), Disabled.

Video RAM Cacheable

Enabled (default)	Enabled Video RAM Cacheable.
Disabled	Disabled Video RAM Cacheable.

Memory Hole At 15M-16M

In order to improve performace, certain space in memory can be reserved for ISA cards. This memory must be mapped into the memory's space below 16MB.
The Choices: Diasbled(default), Enabled.

AGP Aperture Size

Select the size of the Accelerated Graphic Port(AGP) aperture. The aperture is a portion of the PCI memory address range dedicated for graphics memory address space. Host cycle that hit the aperture range are forwarded to the AGP without any translation.
The Choices: 64MB(default), 1MB, 2MB, 4MB, 8MB, 16MB, 32MB, 128MB, 256MB.

PCI Delay Transaction

The chipset has an embedded 32-bit posted write buffer to support delay transactions cycles. Select Enabled to support compliance with PCI specification version 2.1.
The Choices: Disabled(default), Enabled.

Memory Parity Check

Enable this item to allow BIOS to perform a parity check to the POST memory tests. Enable only if the system DRAM supports parity checking. After you have made your selections in the Chipset Features Setup screen, press ESC to go back to the main screen.
The Choices: Disabled(default), Enabled.

2.5 Integrated Peripherals

◎ Figure 5. Integrated Peripherals

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Integrated Peripherals

Onchip IDE Function	Press Enter	Item Help
Onchip Device Function	Press Enter	
Winbond Super IO Device	Press Enter	Menu Level
Init Display First	PCI Slot	
System Share Memory Size	8MB	

←→↑↓: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit
F1:General Help F5:Previous Values F6:Fail-Safe Defaults
F7:Optimized Defaults

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Onchip IDE Function

Internal PCI/IDE	Both	Item Help
Primary Master PIO	Auto	
Primary Slave PIO	Auto	Menu Level
Secondary Master PIO	Auto	
Secondary Slave PIO	Auto	
Primary Master UDMA	Auto	
Primary Slave UDMA	Auto	
Secondary Master UDMA	Auto	
Secondary Slave UDMA	Auto	
IDE Burst Mode	Enabled	
IDE HDD Block Mode	Enabled	
IDE Prefetch Mode	Enabled	

←→↑↓: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit
F1:General Help F5:Previous Values F6:Fail-Safe Defaults
F7:Optimized Defaults

Internal PCI/IDE

Use this item to enable or disable the IDE channels that are integrated on the mainboard. Leaving this item at Both enables you to set the IDE Primary/Secondary Master/ Slave PIO, Primary/Secondary Master/Slave UltraDMA, and IDE Burst Mode fields. Setting this item to Primary enables you to set the IDE Primary Master/Slave PIO, Primary Master/Slave UltraDMA and IDE Burst Mode fields. If you set this item to Secondary, it enables you to set the IDE Secondary Master/Slave PIO, Secondary Master/Slave UltraDMA and IDE Burst Mode fields.
The Choices: Both(default).

Primary Master PIO (for onboard IDE 1st channel)

Auto (default)	BIOS will automatically detect the IDE HDD Accessing mode.
Mode 0~4	Manually set the IDE Accessing mode.

Primary Slave PIO (for onboard IDE 2nd channel)

Auto (default)	BIOS will automatically detect the IDE HDD Accessing mode.
Mode 0~4	Manually set the IDE Accessing mode.

Secondary Master PIO (for onboard IDE 1st channel)

Auto (default)	BIOS will automatically detect the IDE HDD Accessing mode.
Mode 0~4	Manually set the IDE Accessing mode.

Secondary Slave PIO (for onboard IDE 2nd channel)

Auto (default)	BIOS will automatically detect the IDE HDD Accessing mode.
Mode 0~4	Manually set the IDE Accessing mode.

Primary Master Ultra DMA

Auto (default)	BIOS will automatically detect the IDE HDD Accessing mode.
Disabled	Disabled.

Primary Slave Ultra DMA

Auto (default)	BIOS will automatically detect the IDE HDD Accessing mode.
Disabled	Disabled.

Secondary Master Ultra DMA

Auto (default)	BIOS will automatically detect the IDE HDD Accessing mode.
Disabled	Disabled.

Secondary Slave Ultra DMA

Auto (default)	BIOS will automatically detect the IDE HDD Accessing mode.
Disabled	Disabled.

IDE Burst Mode

Enables or disables the IDE Bus Master generating PCI burst cycle control.
The Choices: Enabled(default), Disabled.

IDE HDD Block Mode

Enabled (default)	Enabled.
Disabled	Disabled.

IDE Prefetch Mode

The onboard IDE drive interface supports IDE prefetching, for faster drive access. If you install a primary and or secondary add-in IDE interface, set this field to Disabled if the interface does not support prefetching.
The Choices: Enabled(default), Disabled.

AC97 Sound Device

The default setting of this item utilizes an onboard sound chip for audio output. There is no need to buy and insert a sound card. If a sound card is installed, disable this item.
The Choices: Enabled(default), Disabled.

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Onchip Device Function

AC97 Sound Device	Enabled	Item Help
Game Port Address	201	
Midi Port Adress	330	Menu Level
Midi Port IRQ	10	
AMR Modem Device	Enabled	
Ethernet Function	Enabled	
Ethernet Address ID Input	Press Enter	
Current Mac address is 003018-000001		
USB Controller	Enabled	
USB Keyboard Support	Disabled	

←→↑↓: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit
F1:General Help F5:Previous Values F6:Fail-Safe Defaults
F7:Optimized Defaults

Game Port Address

201 (default)	Set onboard game port to 201.
209	Set onboard game port to 209.
Disabled	Disabled.

Midi Port Address

300	Set Midi Port address to 300.
330 (default)	Set Midi Port address to 330.
Disabled	Disabled.

Midi Port IRQ

10 (default)	Set Midi Port IRQ to 10.
5	Set Midi Port IRQ to 5.

AMR Modem Device

The item allows you to control the onboard MC97 Modem controller.

The Choices: Enabled(default), Disabled.

Ethernet Address ID Input

The item allows you to setting the Mac address from 003018 to 000001 .

USB Connector

This should be enabled if your system has a USB installed on the system board and you wish to use it. Even when so equipped, if you add a higher performance controller, you will need to disable this feature.

The Choices: Enabled(default), Disabled.

USB Keyboard Support

Select Enabled if your system contains a Universal Serial Bus(USB) controller and you have a USB keyboard.

The Choices: Disabled(default), Enabled.

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Winbond Super IO Device

Onboard FDD Controller	Enabled	Item Help
Onboard Serial Port 1	3F8/IRQ4	
Onboard Serial Port 2	2F8/IRQ3	Menu Level
UART2 Mode	Normal	
RxD,TxD Active	Hi,Hi	
IR Transmission Delay	Enabled	
IR Duplex Mode	Half	
Use IR Pins	IR-Rx2Tx2	
Onboard Parallel Port	378/IRQ7	
Parallel Port Mode	SPP	
EPP Mode Select	EPP1.7	
ECP Mode Use DMA	3	

←→↑↓: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit
F1:General Help F5:Previous Values F6:Fail-Safe Defaults
F7:Optimized Defaults

Onboard FDD Controller

Enabled (default)	Enabled onboard FDD Controller.
Disabled	Disabled onboard FDD Controller.

Onboard Serial Port 1

Select an address and corresponding interrupt for the first and second serial ports.

The Choices: 3F8/IRQ4(default), Auto, (2F8/IRQ3), (3E8/IRQ4), (2E8/IRQ3), Disabled.

Onboard Serial Port 2

Select an address and corresponding interrupt for the first and second serial ports.

The Choices: 2F8/IRQ3(default), Auto, (3F8/IRQ4), (3E8/IRQ4), (2E8/IRQ3), Disabled.

UART2 Mode

This item allows you to select which Infra Red(IR) function of the onboard I/O chip you wish to use.

The Choices: Normal(default), IrDA, SCR, ASKIR.

IR Duplex Mode

This item allows you to select which Infra Red(IR) function of the onboard I/O chip you wish to use.

The Choices: Half(default), Full.

Onboard Parallel Port

This item allows you to select the I/O address with which to access the onboard parallel port controller.

The Choices: 378/IRQ7(default), Disabled, 278/IRQ5, 3BC/IRQ7.

Parallel Port Mode

SPP (default)	Using Parallel port as Standard Parallel Port.
EPP	Using Parallel port as Enhanced Parallel Port.
ECP	Using Parallel port as Extended Capabilites Port.
ECP+EPP	Using Parallel port as ECP+EPP mode.

EPP Mode Select

The Choices: EPP1.7(default), EPP1.9.

ECP Mode Use DMA

The Choices: 3(default), 1.

2.6 Power Management Setup

The Power Management Setup allows you to configure your system to most effectively save energy while operating in a manner consistent with your own style of computer use.

◎ Figure 6. Power Management Setup

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Power Management Setup

ACPI Function	Enabled	Item Help
Video Off Opion	Susp,Stby->Off	
Video Off Method	V/H SYNC+Blank	Menu Level
Switch Function	Break/Wake	
Modem Use IRQ	3	
Hot Key Function As	Disabled	
HDD Off After	Disabled	
Power Button Override	Instant Off	
PM Wake up Events	Press Enter	

←→↑↓: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit
F1:General Help F5:Previous Values F6:Fail-Safe Defaults
F7:Optimized Defaults

ACPI Function

This item display status of the Advanced Configuration and Power Management (ACPI).

Video Off Option

This field determines when to activate the video off feature for monitor power management.

The Choices: Suspend->off(default), Always on.

Video Off Method

This determines the manner in which the monitor is blanked.

V/H SYNC+Blank (default)	This selection will cause the system to turn off the vertical and horizontal synchronization ports and write blanks to the video buffer.
Blank Screen	This option only writes blanks to the video buffer.
DPMS Support	Initial display power management signaling.

Switch Function

Enables you to set the System Management Interrupt (SMI) button function in DOS.
The Choices: Break/Wake(default).

Modem Use IRQ

This determines the IRQ, which can be applied in Modem use.
The Choices: 3(default),**4/5/7/9/10/11/NA.**

Hot Key Function As

Enables you to set the power button function in DOS.
The Choices: Disabled(default).

HDD Off After

The IDE hard drive will spin down if it is not accessed within a specified length of time. Options are from 1 Min to 15 Min and Disable.
The Choices: Disabled(default), Enabled.

Power Button Override

Pressing the power button for more than 4 seconds forces the system to enter the Soft-Off state when the system has "hung".
The Choices: Instant-Off(default), Delay 4 Sec.

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PM Wake Up Events

IRQ [3-7,9-15],NMI	Enabled	Item Help
IRQ 8 Break Suspend	Disabled	
Ring Power Up Control	Disabled	Menu Level
MACPME Power Up Control	Disabled	
PCIPME Power Up Control	Disabled	
KB Power On Password	Enter	
Power Up by Alarm	Disabled	
Month Alarm	NA	
Day of Month Alarm	0	
Time (hh:mm:ss) Alarm	0 0 0	

←→↑↓: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit
F1:General Help F5:Previous Values F6:Fail-Safe Defaults
F7:Optimized Defaults

IRQ [3-7,9-15],NMI

When enabled, any event occurring at IRQs 3 through 15 (excluding IRQ 8) will awaken a system, which has been powered down.

The Choices: Enabled(default), Disabled.

IRQ 8 Break Suspend

This field allows you to enable or disable monitoring of IRQ8 so that it does not awaken the system from a suspend mode.

The Choices: Disabled(default), Enabled.

Ring Power Up Control

When set to Enabled, the system power will be turned on if there is any modem activity.

The Choices: Disabled(default), Enabled.

MACPME Power Up Control

During Disabled, the system will ignore any incoming call from the EtherNet controller. During Enabled, the system will boot up if there's an incoming call from the EtherNet controller.

The Choices: Disabled(default), Enabled.

PCIPME Power Up Control

When set to "Enabled," the system power will be turned on if there is any PCI card activity from PCI cards that trigger a PME event, such as LAN or Modem cards.
The Choices: Disabled(default), Enabled.

KB Power On Password

You can use this item to install a power on password. Press Enter to display the Password dialog box.
The Choices: Enter(default).

Power Up by Alarm

When set to Enabled, the following three fields become available and you can set the month, date (day of the month), hour, minute and second to turn on your system.
The Choices: Disabled(default), Enabled.

2.7 PnP/PCI Configurations

This section describes configuring the PCI bus system. PCI or Personal Computer Interconnect,is a system which allows I/O devices to operate at speeds nearing the speed of the CPU itself when communicating with its own special components. This section covers some very technical items and it is strongly recommended that only experienced uses make any changes to the default settings.

◎ Figure 7. PnP/PCI Configurations

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PnP/PCI Configurations

Reset Configuration Data	Disabled	Item Help
Resources Controlled By	Manual	
IRQ Resources	Press Enter	Menu Level
PCI/VGA Palette Snoop	Disabled	When resources are controlled manually, assign each system interrupt a type, depending on the type of device using the interrupt

←→↑↓: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit
F1:General Help F5:Previous Values F6:Fail-Safe Defaults
F7:Optimized Defaults

Reset Configuration Data

Normally, you leave this field 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 such a serious conflict that the operating system can not boot. The settings are: Enabled and Disabled.

Resources Controlled By

By Choosing "Auto" (default), the system BIOS will detect the system resources and automatically assign the relative IRQ and DMA channel for each peripheral. By Choosing "Manual", the user will need to assign IRQ & DMA for add-on cards. Be sure that there are no IRQ/DMA and I/O port conflicts.

IRQ Resources

When resources are controlled manually, assign each system interrupt a type, depending on the type of device using the interrupt.

IRQ-3	assigned to: PCI Device
IRQ-4	assigned to: PCI Device
IRQ-5	assigned to: PCI Device
IRQ-6	assigned to: PCI Device
IRQ-7	assigned to: PCI Device
IRQ-8	assigned to: PCI Device
IRQ-9	assigned to: PCI Device
IRQ-10	assigned to: PCI Device
IRQ-11	assigned to: PCI Device
IRQ-12	assigned to: PCI Device
IRQ-13	assigned to: PCI Device
IRQ-14	assigned to: PCI Device
IRQ-15	assigned to: PCI Device

PCI / VGA Palette Snoop

Choose Disabled or Enabled. Some graphic controllers which are not VGA compatible take the output from a VGA controller and map it to their display as a way to provide boot information and VGA compatibility.

However, the color information coming from the VGA controller is drawn from the palette table inside the VGA controller to generate the proper colors, and the graphic controller needs to know what is in the palette of the VGA controller. To do this, the non-VGA graphic controller watches for the write access to the VGA palette and registers the snoop data. In PCI based systems, the Write Access to the palette will not show up on the ISA bus if the PCI VGA controller responds to the Write.

In this case, the PCI VGA controller should not respond to the Write, it should only snoop the data and permit the access to be forwarded to the ISA bus. The non-VGA ISA graphic controller can then snoop the data on the ISA bus. Unless you have the above situation, you should disable this option.

Disabled (default)	Function Disabled.
Enabled	Function Enabled.

2.8 PC Health Status

◎ Figure 8. PC Health Status

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PC Health Status

CPU Warning Temperature	Disabled	Item Help
Shut down Temperature	Disabled	
Show PC Health in Post	Enabled	Menu Level
Current CPU Temp.	28℃/82℉	
Current System Temperature	29℃/84℉	
Current CPUFan Speed	4687 RPM	
Current SYSFan Speed	0 RPM	
Vcore	1.69V	
VCC3.3	3.31V	
+5V	5.00V	
+12V	+12.02V	
-12V	-12.16V	
5VSB(V)	5.45V	

←→↑↓: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit
F1:General Help F5:Previous Values F6:Fail-Safe Defaults
F7:Optimized Defaults

CPU Warning Temperature(℃)

Disabled (default)	Disabled.
50℃ / 122℉	Monitor CPU Temp.at 50℃ / 122℉.
53℃ / 127℉	Monitor CPU Temp.at 53℃ / 127℉.
56℃ / 133℉	Monitor CPU Temp.at 56℃ / 133℉
63℃ / 145℉	Monitor CPU Temp.at 63℃ / 145℉
66℃ / 151℉	Monitor CPU Temp.at 66℃ / 151℉
70℃ / 158℉	Monitor CPU Temp.at 70℃ / 158℉

Show PC Health in Post

During Enabled, it displays information list below.

The Choices: Enabled(default), Disabled.

Shutdown Temperature(℃/℉)

Disabled (default)	Disabled.
60℃/140℉	Monitor CPU Temp.at 60℃/140℉, if Temp.>60℃/140℉ system will automatically power off.
65℃/149℉	Monitor CPU Temp.at 65℃/149℉, if Temp.>65℃/149℉ system will automatically power off.
70℃/158℉	Monitor CPU Temp.at 70℃/158℉, if Temp.>70℃/158℉ system will automatically power off.
75℃/167℉	Monitor CPU Temp.at 75℃/167℉, if Temp.>75℃/167℉ system will automatically power off.

Current Voltage(V) CPU Vcore / VCC3.3V / +-12V /+5V/ 5VSB

Detect system's voltage status automatically.

Current CPU / System Temperature(℃/℉)

This field displays the current CPU temperature,if your computer contains a monitoring system.

Current CPUFan / SYSFan Speed

These field displays the current speed of up to System Fans,if your computer contains a monitoring system.

2.9 Frequency / Voltage Control

◎ Figure 9. Frequency / Voltage Control

CMOS Setup Utility-Copyright (C) 1984-2001 Award Software

Frequency / Voltage Control

Cyrix III Clock Ratio	Default	Item Help
Auto Detect DIMM/PCI CLK	Enabled	
Spread Spectrum	Disabled	Menu Level
CPU Host/DRAM Clock	Default	
CPU Clock Ratio Jumperless	X3.0	

←→↑↓: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit
F1:General Help F5:Previous Values F6:Fail-Safe Defaults
F7:Optimized Defaults

Cyrix III Clock Ratio

This option is allow you to set Cyrix III clock ratio
The Choices: X3.5~X6.

Auto Detect DIMM/PCI CLK

This item allows you to enable/disable auto detect DIMM / PCI CLOCK.
The Choices: Enabled(default), Disabled.

Spread Spectrum

This function is designed for the EMI test only.
The Choices: Disabled(default), Enabled.

CPU Host/DRAM Clock

This item allows you to select the CPU Host Clock (CPU/ PCI).
The Choices: 66/66MHz~133/133MHz.

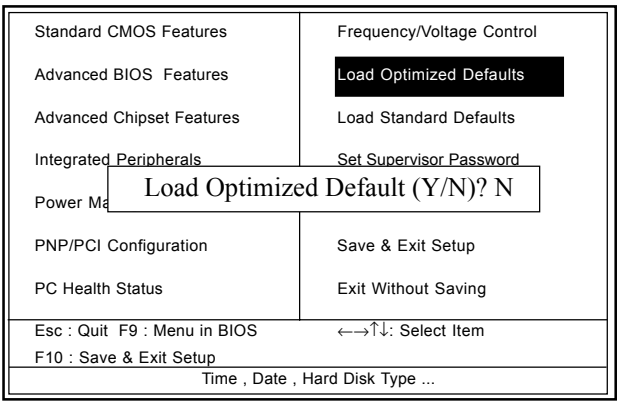
CPU Clock Ratio

This option will not be shown if you are using a CPU with the locked ratio.
The Choices: X3.0(default).

2.10 Load Optimized Defaults

When you press <Enter> on this item, you get a confirmation dialog box with a message similar to:

◎ Figure 10. Load Optimized Defaults

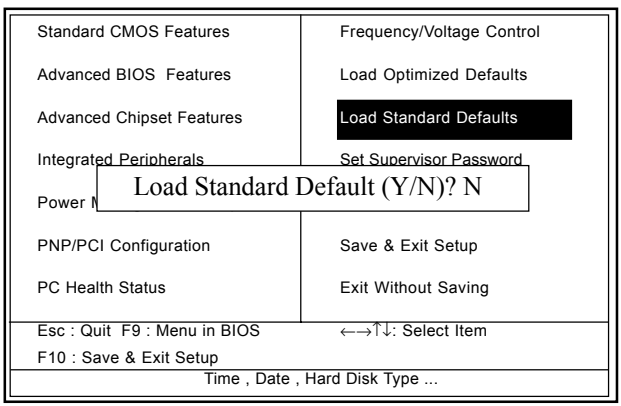


Pressing 'Y' loads the default values that are factory settings for optimal performance of system operations.

2.11 Load Standard Defaults

When you press <Enter> on this item, you get a confirmation dialog box with a message similar to:

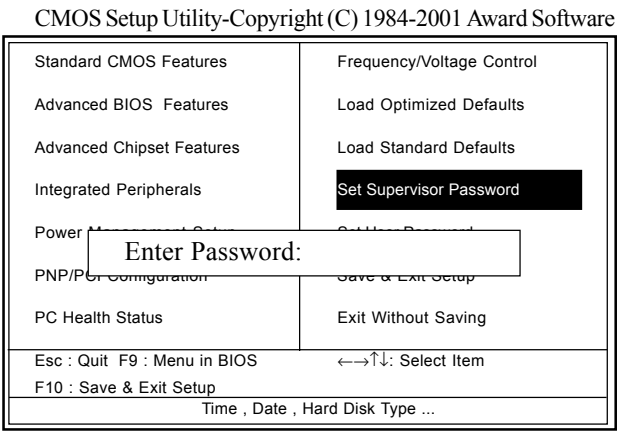
◎ Figure 11. Load Standard Defaults



Pressing 'Y' loads the default values that are factory settings for optimal performance of system operations.

2.12 Set Supervisor / User Password

◎ Figure 12. 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.

Enter Password

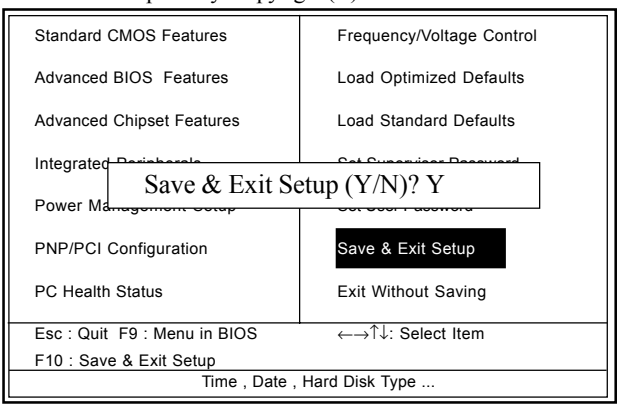
Type a password, up to eight characters, and press <Enter>. The password you type now will clear any previously entered password from CMOS memory. You will be asked to confirm the password. Type the password again and press <Enter>. You may also press <ESC> to abort the selection and not enter a password. To disable the password, just press <Enter> when you are prompted to enter a password. A message will confirm that you wish to disable the password. Once the password is disabled, the system will boot and you can enter setup freely.

Password Disabled

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

2.13 Save & Exit Setup

◎ Figure 13. Save & Exit Setup

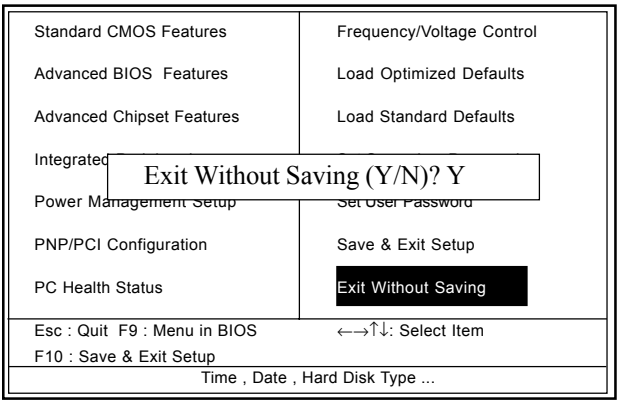


Typing “Y” will quit the Setup Utility and save the user setup value to RTC CMOS RAM.

Typing “N” will return to the Setup Utility.

2.14 Exit Without Saving

◎ Figure 14. Exit Without Saving



Typing “Y” will quit the Setup Utility without saving to RTC CMOS RAM.

Typing “N” will return to the Setup Utility.

Chapter 3

There are motherboard drivers and utilities included in ACORP Bonus CD disc. You don't need to install all of them in order to boot your system. But after you finish the hardware installation, you have to install your operation system first (such as windows 98) before you can install any drivers or utilities. Please refer to your operation system installation guide.

> ***Note**: Please follow recommended procedure after install Windows ME and Windows 98.*

3.1 Auto-run Menu

You can use the auto-run menu of Bonus CD disc. Choose the utility or driver and select model name.

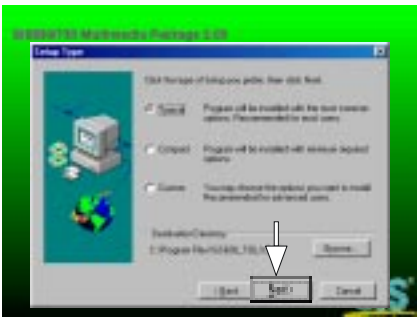
3.2 Installing SiS AGP Driver

SiS 630 chipset integrated a 2D/3D graphics acceleration. This item install the SiS AGP for Microsoft Windows 95/ 98SE/ME/NT4.0/2000/XP.

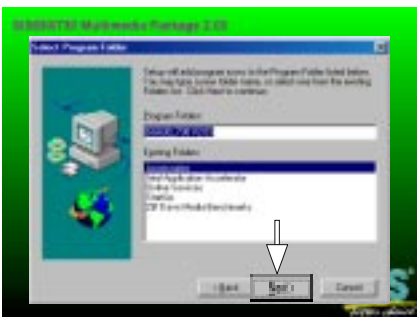
(1)
Click
"SiS AGP Driver" Item.

(2)
For Win 9x/2000
/NT/XP System.
Select your system.

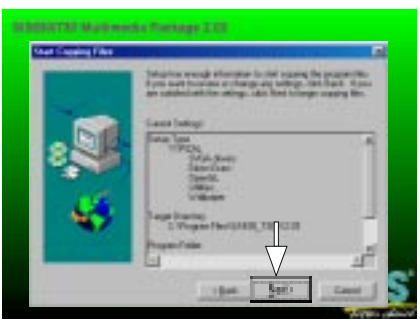
(3)
Click "Next".



(4)
Click "Next".



(5)
Click "Next".



(6)
Click "Next".

3.3 Installing Aduio Driver

This item install the SiS Audio for Microsoft Windows 95/ 98SE/ME/NT4.0/2000/XP. This motherboard comes with an SiS 7018 AC'97 CODEC.

(1)
Click
"Audio Driver" Item.

(2)
Click "Next".

(3)
Click "Next".

3.4 Installing Onboard LAN Driver

When your mainboard comes with the SiS 900 PCI 10/100Mb Fast Ethernet Adapter, you must install the SiS® LAN driver to support the LAN function. In some operating systems like Windows 9X, Windows 2000, Windows NT the provided CD will auto-run when you insert the CD disk into the CD-ROM drive.

(1)
Click
"Onboard LAN Driver"
Item.

(2)
Click "Next".

630TM System Compatibility Test Report

** **Note:**
This test report is for your reference, we would like to suggest you to use these devises that we had apporoved.

A. System Compatibility Test

Configuration	Windows 98SE	Windows ME	Windows 2000	Windows XP
CPU	Celeron II	Tualatin	Tualatin	Coppermine
	1200/100	1200/133	1200/133	933/133
Memory	PQI -133	TOSHIBA -133	MOSEL -133	MOSEL -133
	Xander 128MB*2	Kingstone 128MB*2	Kingstone 256MB*2	Kingstone 128MB*2
	PQ3S168S75(S)	TC59SM716AFT-75(D)	V54C3128804CAT7(D)	V54C3128804VAT7(D)
Hard Disk	Quantum 30G	WD 20G	IBM 20.5G	Seagate 30.6G
	LD30000AT-100	WD200BB-00CFC0	DTLA-305020-100	ST330631A-100
CD-ROM	AFREEY	GENUINE	GENUINE	GENUINE
	CD-2052E 52x	GC-852 52x	GC-852 52x	GC-852 52x
Sound Card				
	On Board	On Board	On Board	On Board
Power Supply	CWT	High Power	High Power	High Power
	CWT-300ATX12(110V)	HPC-400-101(110V)	HPC-400-101(110V)	HPC-400-101(110V)

B. CPU Compatibility Test

Nucleus	Model	CLK	Voltage	Bus Speed	CPU S.P.E.C	RESET 10 Time	PW On/Off 10 Time	CC WS 2001 Test
Celeron	600	9 .0	1.7V	66	SL4NX	Pass	Pass	25.6
Celeron	700	10.5	1.7V	66	SL4P2	Pass	Pass	28.1
Celeron	733	11	1.7V	66	SL4P3	Pass	Pass	27.9
Celeron	766	11.5	1.7V	66	SL4QF	Pass	Pass	29.2
Celeron II	800	8 .0	1.7V	100	SL55R	Pass	Pass	31.8
Celeron II	850	8.5	1.7V	100	SL5GB	Pass	Pass	32.9
Celeron II	900	9 .0	1.75V	100	SL5LX	Pass	Pass	28.3
Coppermine	500	5 .0	1.75V	100	SL3Q9	Pass	Pass	27.2
Coppermine	650	6.5	1.65V	100	SL3XV	Pass	Pass	32.2
Coppermine	700	7 .0	1.65V	100	SL3XX	Pass	Pass	33.7
Coppermine	850	8.5	1.75V	100	SL4MC	Pass	Pass	36.1
Coppermine	600	4.5	1.65V	133	SL3VB	Pass	Pass	30.9
Coppermine	667	5 .0	1.65V	133	SL3VK	Pass	Pass	32.8
Coppermine	733	5.5	1.65V	133	SL45Z	Pass	Pass	33.1
Coppermine	800	6 .0	1.7V	133	SL4MB	Pass	Pass	34.9
Coppermine	866	6.5	1.75V	133	SL4ZJ	Pass	Pass	37.8
Coppermine	933	7 .0	1.7V	133	SL4ME	Pass	Pass	37.3
Coppermine	1000	7.5	1.7V	133	SL4MF	Pass	Pass	40.2
Celeron II	1100	11	1.75V	100	SL5XU	Pass	Pass	35.3
Celeron II	1200	12	1.475V	100	SL5Y5	Pass	Pass	43.8
Tualatin	1133	8.5	1.475V	133	SL5GQ	Pass	Pass	43.5
Tualatin	1200	9 .0	1.475V	133	SL5GN	Pass	Pass	43
FC-PGA2	1000	7.5	1.75V	133	SL5FQ	Pass	Pass	39
Semuel 2	733	5.5	1.6V	133		Pass	Pass	18.6
Semuel 2	750	7.5	1.6V	100		Pass	Pass	18.8

C. Memory Compatibility Test

Vender	Component	CAPACITY	DRAM	M x M CLK	BANK	Amount
PQI	PQ3S168Q75	256MB	133		D	2
MITSUBISHI	M2V28S30ATP	256MB	133	16M x 8	D	2
IBM	0325804CT3A-75A	256MB	133	32M x 8	S	2
MOSEL	V21C365164VCT7	64MB	133	4M x 6	S	2
M.tec	TBS3808B4F-6	128MB	133	16M x 8	S	2
MITSUBISHI	M2V64S30STP	64MB	133	8M x 8	S	2
MITSUBISHI	M2V28S40DTP	64MB	133	4M x 16	S	2
Kingmax	KSV684T4A2A-06	128MB	150	BGA	S	2
Kingmax	KSV884T4A1A-07	128MB	133	BGA	D	2
Kingmax	KSV884T4A1A-07	64MB	133	BGA	S	2
MIRA	P2V64S40DTP	64MB	133	4M x 16	S	2
MIRA	P2V64S20DTP	128MB	133	16M x 4	D	2
SIEMENS	HYB39S64800BT-75	128MB	133	16M x 64	D	2
Micron	48LC16M8A2-75E	128MB	133	8M x 16	S	2
Micron	48LC8M8A2-75C	128MB	133	8M x 8	D	2
Micron	48LC8M8A2-75C	64MB	133	8M x 8	S	2
Infineon	HYB39S64800CT-7.5	64MB	133	8M x 8	S	2
Infineon	HYB39S64800CT-7.5	128MB	133	8M x 8	D	2
M.tec	TBS6408B4E-6	64MB	133	8M x 8	S	2
MOSEL	V54C365164VCT7	64MB	133	4M x 16	S	2
MOSEL	V54C3128804VAT7	256MB	133	16M x 8	D	2
TOSHIBA	TC59SM716AFT-75	128MB	133	16M x 4	D	2
Winbond	W981208AH-75	256MB	133	16M x 8	D	2
Winbond	W981208BH-75	128MB	133	8M x 16	S	2
SPECTEK	980016LK7TW-75A	256MB	133		D	2
HITACHI	5264405FTT75	128MB	133	8M x 8	D	2
PQI	PQ3S168S75	256MB	133	16M x 8	S	2
PQI	MP6828UMR-T6863	128MB	166	16M x 8	S	2
Value	D168SP75 0113PT03	256MB	133	16M x 8	D	2
SAMSUNG	K4S641632D-TC75	64MB	133	4M x 16	S	2
SAMSUNG	K4S640832D-TC75	128MB	133	8M x 8	D	2
Hyundai	HY57V28820A	256MB	133	16M x 8	D	2
Hyundai	GM72V64841XT75	64MB	133	8M x 8	S	2
Hyundai	GM72V66841XT75	128MB	133	8M x 8	D	2
TONICOM	TM31S128084P-7B	128MB	133	16M x 8	S	2
TONICOM	TM31S128084B-6F	128MB	166	BGA	S	2
TONICOM	TM31S128084B-6F	256MB	166	BGA	S	2
NEC	D4564841G5-A75-9JF	64MB	133	8M x 8	S	2
NEC	D45128841G5-A75-9JF	128MB	133	8M x 16	S	2
NEC	D45128841G5-A75-9JF	256MB	133	16M x 8	D	2

D. Onboard VGA Compatibility Test

CHIPSET	O.S Environment	3D MARK 2000 DEMO 1024 x 768 x 32 Bit	3D MARK 2000 BENCH 1024 x 768 x 16 Bit
SIS630	Win98 SE	Pass	680
SIS630	Win ME	Pass	701
SIS630	Win 2000	Pass	682
SIS630	Windows XP	Pass	720