TS-ASP3 USER'S MANUAL Intel® Socket 370 Celeron™/ Pentium® III FC-PGA Series



Your Supplier, Your Partner, Your Friend.

TS-ASP3 Motherboard

Supporting Intel® Pentium® III/Celeron™ Series Processor (Coppermine Core) 66/100/133MHz Front Side Bus

Intel® 815EP Chipset

Welcome!!

Congratulations on your purchase of this great value motherboard, with its range of special features and innovative onboard functions, built around the advanced architecture of the new Intel® 815E Chipset. More details will follow later in this manual.

Our Website

Please come and visit us at our website on http://www.transcendusa.com/. You'll find plenty of interesting information about this and many other quality Transcend products.

Your User's Manual

This User's Manual is designed to help end users and system manufacturers to setup and install the motherboard. All of the information within has been carefully checked for accuracy. However, Transcend Information, Inc. (hereafter referred to as "Transcend") carries no responsibility or liability for any errors or inaccuracies which this manual may contain. This includes references to products and software. In addition, the information and specifications are subject to change without prior notice.

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Manual Version: 1.1

Release Date: January 2001

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Table of Contents

CHA	PTER	1 INTRODUCTION	1	
1.1	Essen	tial Handling Precautions	1	
1.2	Package Contents			
1.3	•	ications and Features	2	
СНА	PTER	2 HARDWARE INSTALLATION	5	
2.1	Transo	cend TS-ASP3 Motherboard	5	
2.2	Layou	t of Transcend TS-ASP3 Motherboard	6	
2.3	Jumpe	er Setup	7	
	2.3.1	66/100/133MHz System Configuration	7	
	2.3.2	Using Jumper JP1 to clear CMOS	8	
	2.3.3	Onboard Audio Setting	9	
	2.3.4	Keyboard Wake Up	10	
	2.3.5	VCC3 Adjust	11	
2.4	Conne	ector Description	12	
	2.4.1	Primary/Secondary IDE Connectors	12	
	2.4.2	Floppy Disk Drive Connector	13	
	2.4.3	Fan Power Connectors	14	
	2.4.4	Memory Configuration	15	
	2.4.5	Panel Connectors	16	
	2.4.6	Wake-on-LAN Connector	18	
	2.4.7	Power Connector	19	
	2.4.8	IrDA-Compliant Infrared Module Connector	20	
	2.4.9	Internal Serial Port Connector COMB	21	
	2.4.10	Internal Audio Connector	22	

	2.4.11 USB 3/4 Connector	23
2.5	External Back Panel I/O Ports	24
CHA	APTER 3 BIOS SETUP	25
3.1	BIOS Setup	25
3.2	The Main Menu	25
3.3	Standard CMOS Features	27
3.4	Advanced BIOS Features	30
3.5	Advanced Chipset Features	33
3.6	Integrated Peripherals	35
3.7	Power Management Setup	39
3.8	PnP/PCI Configuration Setup	42
3.9	PC Health Status	44
3.10	Frequency/Voltage Control	45
3.11	Load Fail-Safe Defaults	47
3.12	Load Optimized Defaults	47
3.13	Supervisor Password	48
3.14	User Password	49
3.15	Save & Exit Setup	49
3.16	Exit Without Saving	50
CHA	APTER 4 SOFTWARE SETUP	51
4.1	INF Update for 815EP Chipset	51
4.2	Intel Security Controller Driver	52
4.3	Audio Driver Setup	53
CHA	APTER 5 BIOS UPGRADE	56
5.1	How to Check Your BIOS File Name and Version	56
5.2	How to Download the Correct BIOS File from the Web	56
5.3	How to Update Your Motherboard BIOS	57

CHAPTER 1 INTRODUCTION

1.1 Essential Handling Precautions

IMPORTANT. Read this page before unpacking your motherboard!

Power Supply

Be careful! Always ensure that the computer is disconnected from the power supply when working on the motherboard and its components.

Static Electricity

Static electricity may cause damage to the delicate integrated circuit chips on your motherboard. Before handling the motherboard outside of its protective packaging, ensure that there is no static electrical charge in your body. A static discharge sufficiently strong enough to damage computer components is not perceptible by a human. To avoid this risk, please observe these simple precautions while handling the motherboard and other computer components:

- 1. If possible, wear an anti-static wrist strap connected to a natural earth ground.
- 2. Touch a grounded or anti-static surface, or a metal fixture such as a pipe or the chassis of your system, before touching the motherboard.
- 3. When you have removed the motherboard from its anti-static packaging, try to hold it only by the edges, without touching any components.
- 4. Avoid contacting the components on add-on cards, motherboards, and modules with the gold-colored connectors which plug into the expansion slots.
- 5. It is safest to handle system components only by their mounting brackets.
- 6. Keep components which are not connected to the system in the anti-static packaging whenever possible.

These precautions help to reduce the risk of static build-up and ensure any static discharge is harmless to your equipment.

Battery Replacement

The battery which holds the system settings memory (CMOS RAM) on your motherboard should not require replacement for at least five years, and probably much longer. In picture 2.2, it is located near the bottom right hand corner. Incorrect computer time and/or loss of time may indicate a weak motherboard battery.

Please replace your battery only with the same type, or a similar type recommended by the battery manufacturer. If the battery is replaced incorrectly, there is a risk of a short circuit or explosion. Used batteries should be disposed of in accordance with the manufacturer's instructions and local environmental regulations.

Electric Screwdrivers

To reduce the risk of damage to the motherboard due to excessive torque, avoid setting electric screwdrivers above 7.5 kg/cm.

1.2 Package Contents

This motherboard package should contain the following items. Please check them as soon as you unpack. If you find any damaged or missing items, please contact your retailer.

- Motherboard
- 1 X CD-ROM
- 1 X FDD cable
- User's Manual
- COM port cable x 1 (optional)
- Ultra DMA 66/100 cable x 1
- USB Cable x 1 (optional)

1.3 Specifications and Features

• CPU

- Supports Intel® Pentium III/Celeron™ Series

Chipset

- TS-ASP3: Intel® 815EP (MCH, ICH2); FSB: 66/100/133 MHz

DRAM Memory

- Supports Synchronous DRAM
- 3 X 168-pin DIMM module sockets on board
- -8~512MB memory size
- 8/16/32/64/128/256/512MB DIMM
- 64 data bits structure only

• I/O Bus Slot

- 6 X Master/Slave PCI Bus slots (PCI 2.2 compliant)
- 1 X CNR (Communication and Networking Riser) slot

Award BIOS

- Supports PC99, Plug-and-Play
- Supports ACPI, APM, DMI, Green Feature

• I/O Functions

- Supports PIO Mode 3, 4, 5 ATAPI devices and Ultra DMA/33/66/100
- Supports 2 high speed UART 16550 COM ports
- Supports SPP/EPP/ECP LPT port
- Supports 3 mode/1.44/2.88MB floppy drive
- Supports PS/2 Mouse and PS/2 Keyboard
- Supports IrDA port
- Supports 4 USB (Universal Serial Bus) ports
- Supports Line-out, Line-in and MIC-in jack
- Supports Game/MIDI port

• Switching Voltage Regulator

- Intel VRM 8.4 compliant

• Other Features

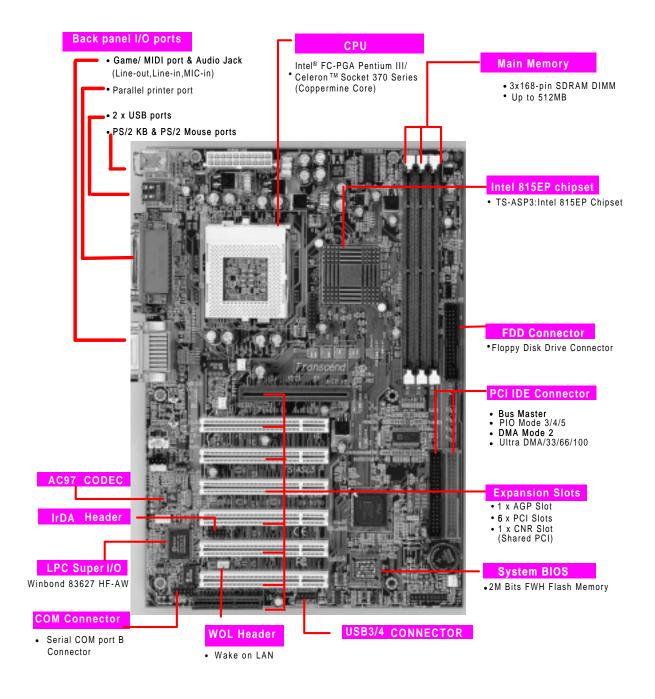
- Year 2000 compliant
- Power failure resume
- FWH (Firmware Hub) supports security manageability
- BIOS Virus protection (warning)
- PS/2 Mouse and Keyboard Wake-Up
- Supports Wake-on-LAN function
- Remote Ring Wake-Up
- Time Wake-Up
- Board voltage monitors for CPU core, +3.3V, +/-5.0V, +/-12.0V, VTT, 3.3VSB/5VSB
- CPU overheat alarm
- CPU fan auto-off in sleep mode

PCB Dimensions

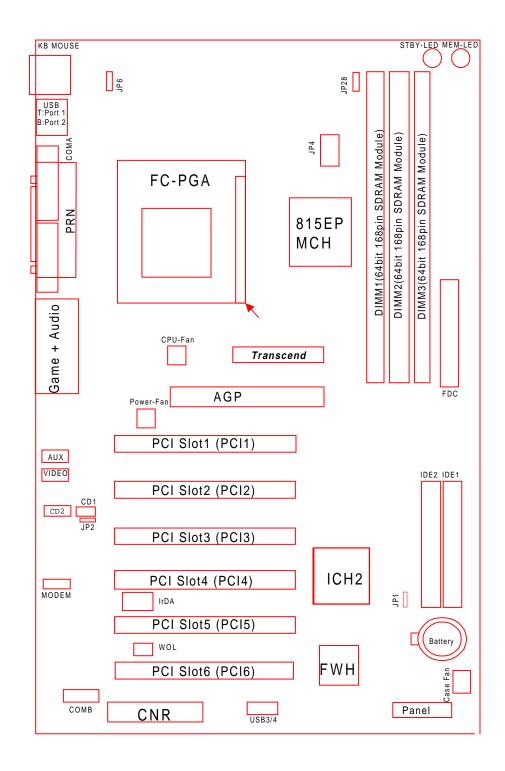
- ATX form factor, 4-layer PCB, 21.3 cm x 30.5 cm (8.4 inch x 12 inch)

CHAPTER 2 HARDWARE INSTALLATION

2.1 Transcend's TS-ASP3 Motherboard



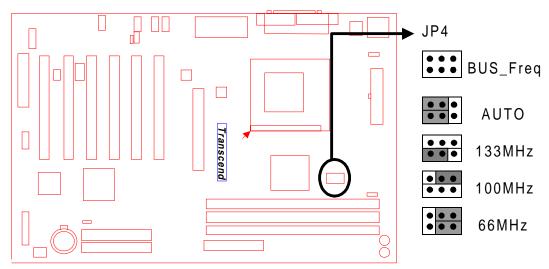
2.2 Layout of Transcend TS-ASP3 Motherboard



2.3 Jumper Setup

2.3.1 66/100/133 MHz System Configuration

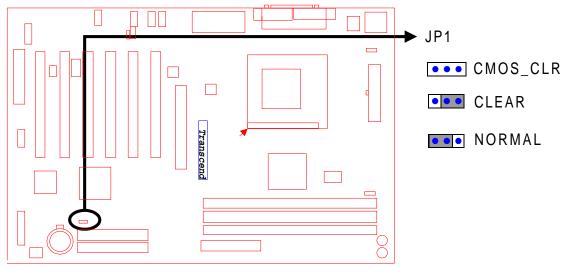
The JP4 Jumper allows you to set the FSB (Front Side Bus) to 66/100/133MHz configuration. When the Jumper is set to "Auto", the frequency range depends on your CPU type. When you set the FSB to 66MHz, you can select a system bus frequency from 66MHz to 99MHz through "CPU Host/PCI Clock" of "Frequency/Voltage Control" in the BIOS Setup menu. When you set the FSB to 100MHz, you can select a system bus frequency from 100MHz to 132MHz. When you set the FSB to 133MHz, you can select a system bus frequency from 133MHz to 166MHz.



66/100/133MHz FSB Configuration Jumper

2.3.2 Using Jumper JP1 to clear CMOS

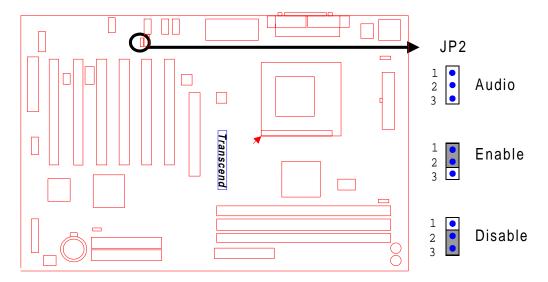
To clear the CMOS data, you should turn off your computer's power and short pin1 and pin2 in JP1.



Clear COMS Jumper

2.3.3 Onboard Audio Setting (JP2 ON-BOARD AUDIO)

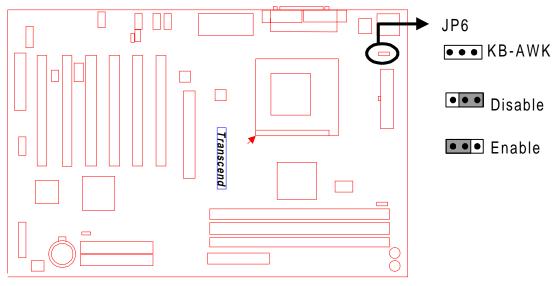
To use an external CNR card, the onboard audio CODEC can be enabled or disabled via this jumper. Please disable the onboard audio CODEC if you want to use a PCI Sound Card or an CNR Audio Card. When you install a CNR card, remember that the onboard audio CODEC uses the primary channel. Therefore, if you want the onboard CODEC to work, you must set the CNR to be secondary.



Audio Selection Jumper

2.3.4 Keyboard Wake-Up (3-pin KB-AWK)

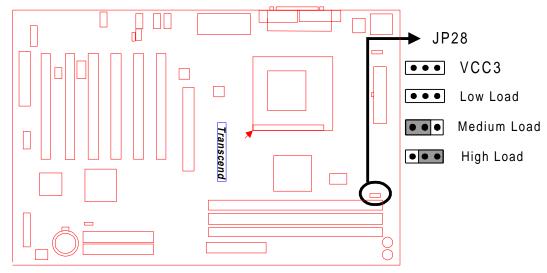
This function makes the Keyboard Power Up the system. Set this jumper to "Enable" if you'd like your Keyboard to Power Up your computer. Then, go to the "Power On Function" in the "Integrated Peripherals" in BIOS to choose the setting you prefer.



Keyboard Wake Up

2.3.5 VCC3 Adjust

Keep this selection fixed unless you are familiar with the system. Default is "Medium".



VCC3 Adjust

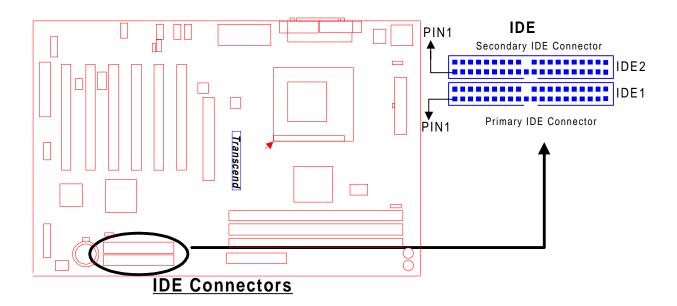
2.4 Connector Description

2.4.1 Primary/Secondary IDE Connectors (Two 40-pin IDE)

This motherboard supports two 40-pin IDE connectors marked as IDE1 (primary channel) and IDE2 (secondary channel). Each channel supports two IDE devices for a total of four devices. Connect your Hard Disk Drive (the main hard disk drive (HDD) if you are using more than one) to the "Master" connector (at the end of the cable) and connect it to IDE1 (see important note below). If your HDD supports Ultra DMA/66, you must use an 80-wire cable, otherwise the HDD won't be able to reach this speed.

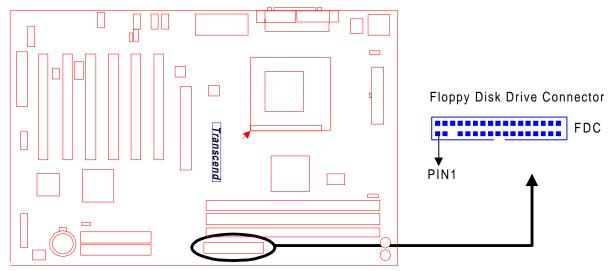
If you intend to operate two IDE devices from the same channel, one device must be set to "Master" mode, the other to "Slave" mode. A Hard Disk Drive, CD ROM or other IDE device can have either setting depending on the device's jumper. Please refer to the device's manual for more information.

NOTE: The Connectors must be attached to the IDE channels correctly. Make sure that the red stripe on one edge of the ribbon cable (this may be faint and could be a dotted line) is the nearest to PIN1 (on the left as the motherboard is shown in the picture below).



2.4.2 Floppy Disk Drive Connector (34-pin FDC)

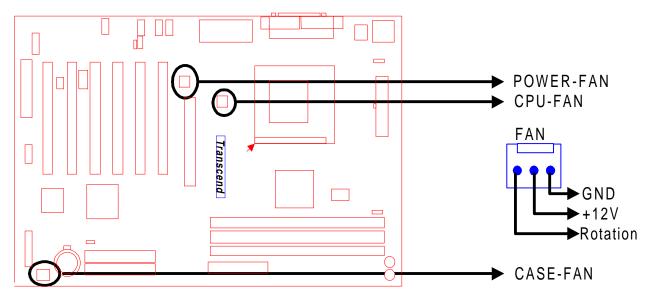
This connector supports the floppy disk drive ribbon cable which is one of the items in your motherboard package. After connecting the single end to the board, connect the two plugs at the other end to the floppy drive(s). Remember, as in the last section, the red stripe on the edge of the ribbon cable must be the nearest to PIN1 or your connection won't work. PIN1 is on the left as shown below.



Floppy Disk Drive Connector

2.4.3 Fan Power Connectors

There are three fan power connectors on the motherboard: CPU-FAN, POWER-FAN, and CASE-FAN. Each connector provides +12V power. The cables can only be attached a certain way. If you try to put them in the wrong way, they won't fit. These connectors support cooling fans of 500 mA (6W) or less.

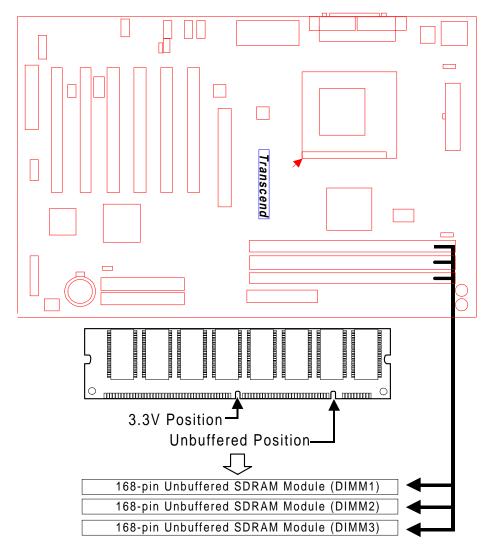


Fan Power Connectors

2.4.4 Memory Configuration

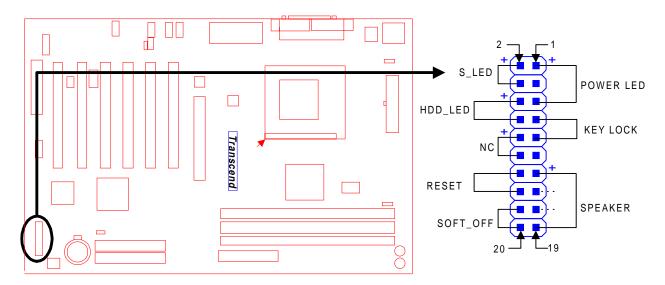
This motherboard must be installed with PC100/PC133 SDRAM DIMM. You can install either single-sided or double-sided memory modules in any combination of memory capacities (listed below) in any socket, but never exceed 512MB total memory capacity.

NOTE: This motherboard supports memory modules with 8/16/32/64/128/256/512MB.



168Pin Memory DIMM Sockets

2.4.5 Panel Connectors



Panel Connector

Power LED Lead (3-pin POWER LED)

This 3-pin connector attaches to the power LED.

Pin1: +5V Pin3: NC

Pin5: GND

Keylock Lead (2-pin KEYLOCK)

Use the keylock to enable or disable the Keyboard.

Pin7: KEYLOCK

Pin9: GND

Speaker Lead (4-pin SPEAKER)

This 4-pin connector connects to the case-mounted speaker.

Pin13: +5V

Pin15: GND

Pin17: NC

Pin19: SPK

Suspend Mode LED Lead (2-pin S_LED)

The S_LED will light when the system is in suspend mode.

Pin2: +5V Pin4: GND

Hard Disk LED Lead (2-pin HDD_LED)

This 2-pin connector connects to the LED of the hard disk. The LED lights up when a HDD is active.

Pin6: +5V Pin8: GND

Reset Switch Lead (2-pin RESET)

This 2-pin connector connects to the case-mounted reset switch for rebooting your computer without turning on your power switch.

Pin14 & Pin16

Soft Power-Off Lead (2-pin SOFT_OFF)

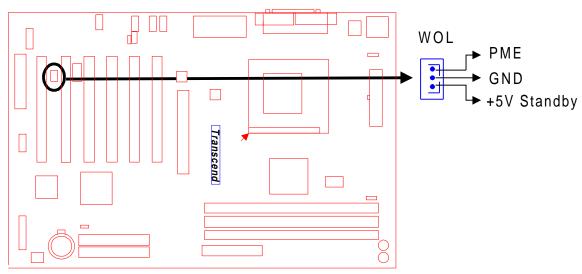
Attach the SOFT_OFF switch of the panel to this connector. Use the switch to Power On/Off your system.

Pin18 & Pin20

2.4.6 Wake-on-LAN Connector (3-pin WOL)

This connector connects to LAN cards with a Wake-on-LAN output. The system can be Powered Up when a wake-up packet or signal is received from the LAN card.

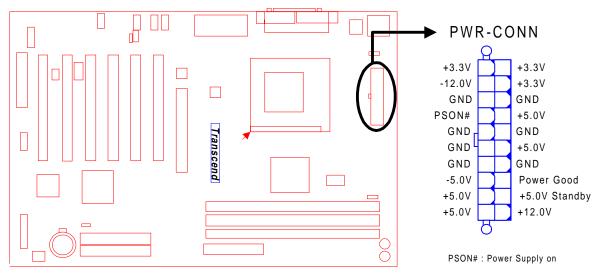
NOTE: This function requires that the "Wake-Up by PCI & WOL" function in the "Power Management Setup" in BIOS is set to "Enabled" and that your system has an ATX power supply with at least 720mA +5V standby power.



Wake-on-LAN Connector

2.4.7 Power Connector (20-pin PWR-CONN)

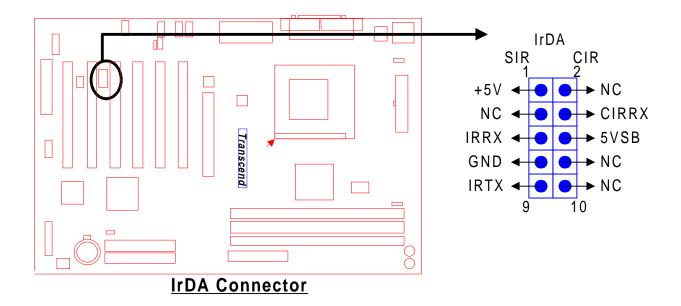
Make sure you plug the ATX power supply connector in properly. The pin definition is shown below. Make sure that your ATX power supply can support at least 720mA +5V standby power for the Advanced Configuration and Power Interface (ACPI) functions.



Power Connector

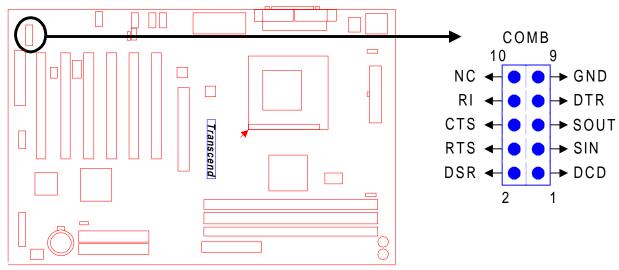
2.4.8 IrDA-Compliant Infrared Module Connector (10-pin IrDA)

The IrDA connector can be configured to support a wireless infrared module. With this module and application software such as Laplink or Win95 Direct Cable Connection, users can transfer files to or from laptops (notebooks), PDAs and printers. You must also configure the setting through "UART Mode Select" in "Integrated Peripherals" in BIOS to select "IrDA". Connect the Standard IR (SIR) device to the onboard SIR connector according to the pin definitions. An optional Consumer Infrared (CIR) set connects to the CIR and SIR connectors simultaneously for both wireless transmitting and remote control functions through one external infrared module.



2.4.9 Internal Serial Port Connector COMB

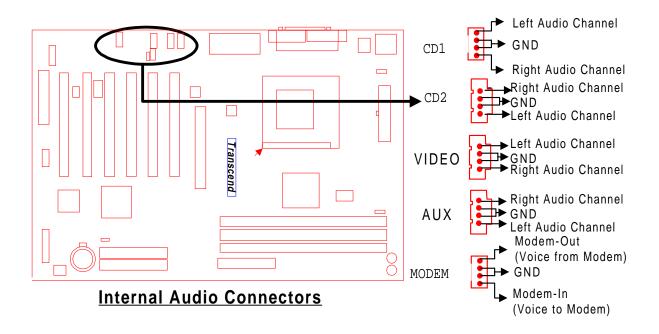
You can use the provided serial port bracket to add a serial port for additional serial devices.



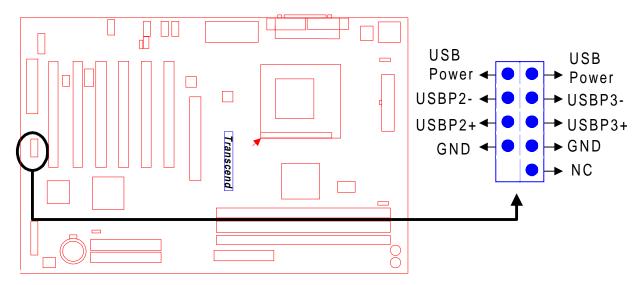
Internal Serial Port Connector COMB

2.4.10 Internal Audio Connector

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



2.4.11 USB 3/4 Connector



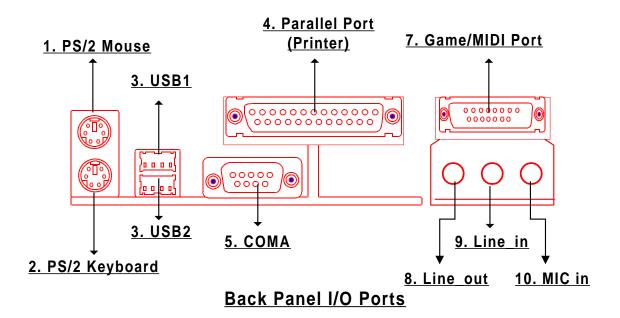
USB 3/4 Connector

2.5 External Back Panel I/O Ports

There are 9 kinds of external connectors on the back panel of the motherboard.

The view in the drawing below is the back panel of the motherboard housing.

- 1. PS/2 Mouse Port (Green 6-pin MOUSE)
- 2. PS/2 Keyboard Port (Purple 6-pin KB)
- 3. USB (Universal Serial Bus) Ports 1 & 2 (Black two 4-pin USBs)
- 4. Parallel Port (Burgundy 25-pin PRN)
- 5. Serial Port COMA (Turquoise 9-pin COMA)
- 6. Game Port/MIDI Port (Gold 15-pin GAME)
- 7. Line_out (Lime Green 1/8" LINE_OUT)
- 8. Line_in (Light blue 1/8" LINE_IN)
- 9. MIC_in (Pink 1/8" MIC)



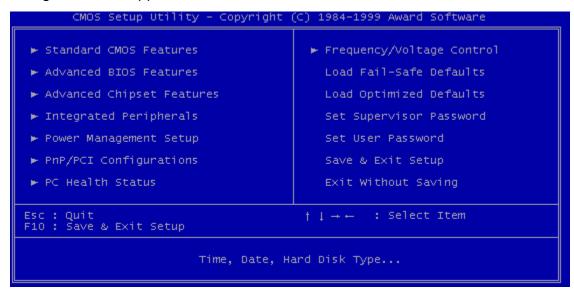
CHAPTER 3 BIOS SETUP

3.1 BIOS Setup

Award BIOS has a built-in Setup program that allows users to modify the basic system configuration. This information is stored in CMOS RAM, so it can retain the Setup information when the power is turned off. When the battery for CMOS fails, it will cause the data to be lost. If that happens, please set up your configuration parameters again after replacing the battery. Please refer to Section 1.1, Essential Handling Precautions.

3.2 The Main Menu

As you turn on or reboot the system, the BIOS is immediately activated. It will read the system configuration information and check the system through the Power On Self Test (POST). During the POST process, press the [Del] key and you can enter the Award BIOS configuration system. The following screen will appear.



In the Award BIOS system you can use the arrows ($\uparrow \downarrow \rightarrow \leftarrow$) to highlight an item and then enter its sub-menu by pressing the [Enter] key. The following keys help you navigate in Setup.

[Esc] Main Menu: Quit without saving changes into CMOS RAM
Other pages: Exit the current page and return to the Main Menu

[PgUp] Increase the numeric value or make changes

[PgDn] Decrease the numeric value or make changes

[+]	Increase the numeric value or make changes	
[-]	Decrease the numeric value or make changes	
[F1]	General help on Setup navigation keys	
[F5]	Load previous values from CMOS	
[F6]	Load the Fail-Safe Defaults from the BIOS default table	
[F7]	Load the Optimized Defaults	
[F10]	Save all the CMOS changes, and exit	

The Following is a brief summary of each Setup category:

Standard CMOS Features

Options in the original PC AT-compatible BIOS

Advanced BIOS Features

Award enhanced BIOS options

Advanced Chipset Features

Available options specific to your system's Chipset

Integrated Peripherals

I/O subsystems that depend on the integrated peripheral controllers in your system

Power Management Setup

Advanced Power Management (APM) and Advanced Configuration Power Interface (ACPI) options

• PnP/PCI Configurations

Plug-and-Play standard and PCI Local Bus configuration options

PC Health Status

To display the fan status, CPU temperature, system temperature, etc., and provide the temperature monitoring option

• Frequency/Voltage Control

To control the frequency and voltage of the CPU

Load Fail-Safe Defaults

To load the most basic BIOS default values required for your system to operate

• Load Optimized Defaults

To load the BIOS default values that are factory settings for optimal system performance

Set Supervisor/User Password

To change, set, or disable a password

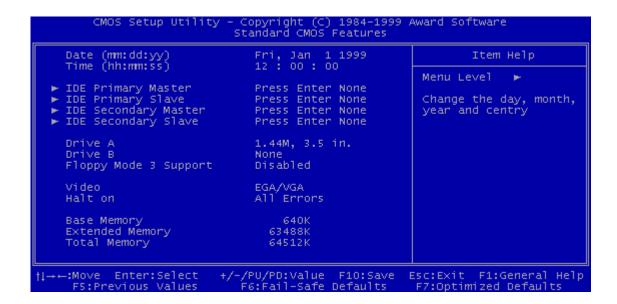
Save & Exit Setup

To save settings in nonvolatile CMOS RAM and exit Setup

Exit Without Saving

To abandon all changes and exit Setup

3.3 Standard CMOS Features



Date (mm:dd:yy)/Time (hh:mm:ss)

Highlight the items and use [PageUp]/[PageDown] to change the value of Date/Time.

• IDE Primary/Secondary Master/Slave

Press [Enter] to enter the sub-menu.

CMOS Setup Utility	- Copyright (C) 1984-: IDE Primary Master	
IDE HDD Auto-Detection	Press Enter	Item Help
IDE Primary Master Access Mode Capacity Cylinder Head Precomp Landing Zone Sector	Auto Auto O MB O O O O	Menu Level ►► To auto-detect the HDD's size, head on this channel
†1→←:Move Enter:Select F5:Previous Values	+/-/PU/PD:Value F10: F6:Fail-Safe Defau	

- IDE HDD Auto-Detection: Detect the HDD on this channel. If the detection is successful, it fills the remaining fields on this menu.
- IDE Primary/Secondary Master/Slave: We recommand that you select "AUTO" for all drives. The BIOS can automatically detect the specifications during POST while the system boots. You can also choose "Manual" to set the specifications yourself. "None" indicates that there is no device installed on this IDE channel.
- Access Mode: "Normal", "LBA", "Large", or "Auto".
 - Normal: Maximum number of cylinders, heads, and sectors supported are 1024, 16, and 63 respectively.
 - LBA (Logical Block Addressing): During drive access, the IDE controller transforms
 the data address described by sector, head, and cylinder number into a physical
 block address. This will significantly improve data transfer rates for drives with
 more than 1024 cylinders.
 - Large: For drives that do not support LBA and have more than 1024 cylinders.
 - Auto: The BIOS automatically determines the optimal access mode.
- Capacity: Disk drive capacity. Note that this size is slighty greater than the size of a formatted disk given by a disk-checking program.
- Cylinder: Number of cylinders
- Head: Number of heads

• Precomp: Write precompensation cylinder

Landing Zone: Landing zoneSector: Number of sectors

Drive A/Drive B

Select the correct types of diskette drive(s) installed in the computer.

- None: No diskette drive installed
- 360K, 5.25 in.: 5-1/4 inch standard drive; 360 kilobyte capacity
- 1.2M, 5.25 in.: 5-1/4 inch high-density drive; 1.2 megabyte capacity
- 720K, 3.5 in.: 3-1/2 inch double-sided drive; 720 kilobyte capacity
- 1.44M, 3.5 in.: 3-1/2 inch double-sided drive; 1.44 megabyte capacity
- 2.88M, 3.5 in.: 3-1/2 inch double-sided drive; 2.88 megabyte capacity

Floppy Mode 3 Support

Supports some particular Japanese floppy drives (3-1/2 inch drive with 1.2 megabyte capacity).

Video

Select the type of primary video subsystem in your computer. The BIOS will detect the correct video type automatically. The BIOS supports a secondary video subsystem, but do not select it in this Setup.

- EGA/VGA: Enhanced Graphics Adapter/Video Graphics Array. For EGA, VGA, SEGA, SVGA or PGA monitor adapters.
- CGA 40: Color Graphics Adapter, powers up in 40-column mode.
- CGA 80: Color Graphics Adapter, powers up in 80-column mode.
- MONO: Monochrome adapter, including high resolution.

Halt On

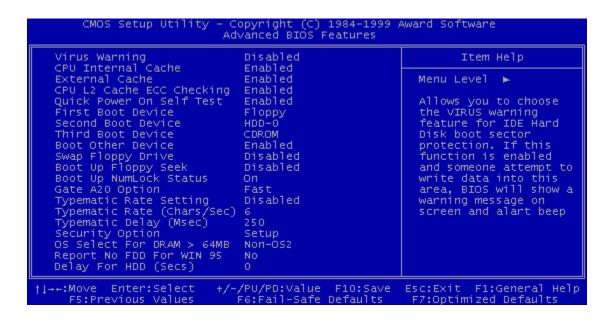
During POST, the computer stops if the BIOS detects a hardware error. You can set the BIOS to ignore certain errors during POST and continue the boot-up process. The following are the available selections.

- All Errors: If the BIOS detects any non-fatal errors, POST stops and prompts you to take corrective action.
- No Errors: POST does not stop for any error.
- All, But Keyboard: If the BIOS detects any non-fatal errors except keyboard, POST stops and prompts you to take corrective action.

- All, But Diskette: If the BIOS detects any non-fatal error except floppy disk drive, POST stops and prompts you to take corrective action.
- All, But Disk/Key: If the BIOS detects any non-fatal error except floppy disk drive or keyboard, POST stops and prompts you to take corrective action.

3.4 Advanced BIOS Features

This "Advanced BIOS Features" option allows you to improve your system performance and setup system features according to your preferences.



Virus Warning

When this function is enabled, you will receive a warning message if a program (specifically, a virus) attempts to write to the boot sector or the partition table of the hard disk drive. You should then execute an anti-virus program. Keep in mind that this feature protects the boot sector only, not the entire hard drive.

NOTE: Many disk diagnostic programs that access the boot sector table can trigger the virus warning message. If you plan to run such a program, we recommend that you first disable this virus warning in BIOS.

CPU Internal Cache/External Cache

Cache memory is additional memory that is much faster than conventional DRAM (system memory). CPUs from 486-type and higher contain internal cache memory. Most, but not all, modern PCs have additional (external) cache memory. When the CPU requests data, the system transfers the requested data from the main DRAM into cache memory for even faster access by the CPU. The "External Cache" field may not appear if your system does not have external cache memory.

• CPU L2 Cache ECC Checking

Select "Enabled" to start the ECC function for L2 Cache.

Processor Number Feature

Make the CPU Serial number function active. (Only for PIII CPUs)

Quick Power On Self Test

Select "Enabled" to reduce the amount of time required to run POST. The Quick POST skips certain steps. We recommend that you normally disable Quick POST. It is better to find a problem during POST than to lose data during your work.

First/Second/Third/Other Boot Device

The original IBM PCs loaded the DOS operating system from drive A (floppy disk). So, IBM PC-compatible systems are designed to search for an operating system first on drive A, and then on drive C (hard disk). However, BIOS attempts to load the operating system from the devices in the sequence selected in this field. In addition to the traditional drives A ("Floppy") and C ("HDD-0"), options include "HDD-1", "HDD-2", "HDD-3", and "CD-ROM"; plus a "SCSI" hard drive, a "LS/ZIP" drive and a "LAN" drive. If your boot device is not included in the list, you can set the "Boot Other Device" field to "Enabled", and let the system detect the drive automatically.

Swap Floppy Drive

This field is effective only in systems with two floppy drives. Selecting "Enabled" assigns physical drive B to logical drive A, and physical drive A to logical drive B.

Boot Up Floppy Seek

When you select "Enabled", the BIOS tests (seeks) floppy drives to determine whether they have 40 or 80 tracks. Only 360-KB floppy drives have 40 tracks; drives with 720KB, 1.2MB, and 1.44MB capacity all have 80 tracks. Because very few modern PCs have 40-track floppy drives, we recommend that you set this field to "Disabled" to save time.

Boot Up NumLock Status

Toggle between "On" and "Off" to control the state of the NumLock key when the system boots. When toggled "On", the numeric keypad generates numbers instead of controlling cursor operations.

Gate A20 Option

Choose "Fast" (default) or "Normal". "Fast" allows RAM access above 1MB to use the fast Gate A20 line.

Typematic Rate Setting

When this function is disabled, the following two items (Typematic Rate and Typematic Delay) are irrelevant. Keystrokes repeat at a rate determined by the keyboard controller in your system. When this function is enabled, you can select a typematic rate and typematic delay.

• Typematic Rate (Chars/Sec)

When the Typematic Rate setting is enabled, you can select a typematic rate (the rate at which a character repeats) when you hold down a key of "6", "8", "10", "12", "15", "20", "24" or "30" characters per second.

• Typematic Delay (Msec)

When the Typematic Delay setting is enabled, you can select a typematic delay (the delay before key strokes begin to repeat) of "250", "500", "750" or "1000" milliseconds.

Security Option

If you have set a password, you can select whether the password is required while the system boots, or only when you enter "Setup".

• OS Select for DRAM > 64MB

Select "OS2" only if you are running OS/2 operating system with more than 64 MB of RAM on your system.

• Report No FDD For WIN 95

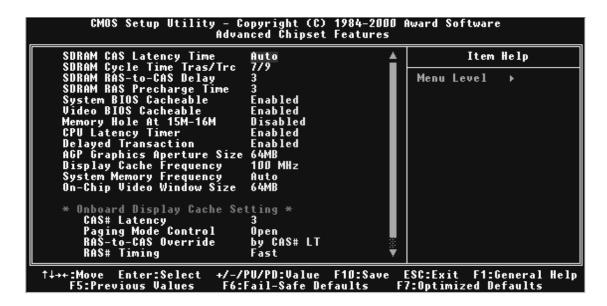
Select "Yes" to release IRQ6 when there is no floppy disk drive, for compatibility with WIN 95 logo certification.

• Delay For HDD (Secs)

Generally, you can set this field as "0", but for some old Hard Disk Drives, you may need to increase the delay time for BIOS to detect what type it is.

3.5 Advanced Chipset Features

This option will change the values of the chipset registers and the system settings will alter. Do not change any values if you are unfamiliar with the chipset.



SDRAM CAS Latency Time

This controls the SDRAM performance: default is "AUTO". BIOS will auto detect the SPD information of the Memory Module and choose the proper setting.

• SDRAM Cycle Time Tras/Trc

Select the number of SDRAM clocks used per access cycle. Setting available is 7/9 or 5/7.

• SDRAM RAS-to-CAS Delay

This controls the latency between SDRAM active command and the read/write command. Leave it on the default setting.

SDRAM RAS Precharge Time

This controls the idle clocks after issuing a precharge command to SDRAM. Leave it on the default setting.

• System BIOS Cacheable

Selecting "Enabled" allows caching of the system BIOS. This action can increase system performance.

Video BIOS Cacheable

Selecting "Enabled" allows caching of the video BIOS. This action can increase system performance.

• Memory Hole at 15M-16M

Enabling this feature reserves memory address space (between 15 and 16MB) to ISA expansion cards that specifically require this setting. This makes between 15 and 16MB of memory unavailable to the system. Expansion cards can only access memory up to 16MB. The default setting is "Disabled".

CPU Latency Timer

The option determines the way that 815 uses the deferrable processor cycle.

Delayed Transaction

PCI access speed is faster than ISA. So PCI will release the master bus to the ISA interface for accessing data. Then the master bus control will go back to PCI again.

AGP Graphics Aperture Size

The Aperture is a portion of the PCI memory address range dedicated for graphics memory address space. Access to the aperture range is forwarded to AGP without any translation. Available options are 64MB and 32MB.

System Memory Frequency

Default is "Auto". When the CPU is 133MHz you can choose 100/133MHz, but when the CPU is 100MHz, only the 100MHz selection functions.

• On-Chip Video Window Size

You can select the size of mapped memory for the VGA/AGP driver to use. The choices are: "64MB", "32MB", and "Disabled".

3.6 Integrated Peripherals

Choose this option and the following display appears.

On-Chip Primary/Secondary PCI IDE

The chipset contains a PCI IDE interface which supports two IDE channels. Select "Enabled" to activate the first and/or second IDE interface. Select "Disabled" to deactivate this interface, when you install a primary and/or secondary add-in IDE interface.

• IDE Primary/Secondary Master/Slave PIO

The four IDE PIO (Programmed Input/Output) fields let you set a PIO mode (0-5) for each of the four IDE devices that the onboard IDE interface supports. Modes 0 through 5 provide successively increased performance. In "Auto" mode, the system automatically determines the best one for each device.

• IDE Primary/Secondary Master/Slave UDMA

Ultra DMA/33/66/100 implementation is possible only if your IDE hard drive can support it, and if the operating environment includes a DMA driver (Windows 95 OSR2 or higher or a third-party IDE bus master driver). If both your hard disk drive and your system software can support Ultra DMA/33/66/100, select "Auto" to enable BIOS support.

• USB Controller

Select "Enabled" if your system contains a Universal Serial Bus (USB) controller and USB peripheral(s).

USB Keyboard Support

Select "Enabled" if you use a USB Keyboard.

Init Display First

This item allows you to decide which to activate first: Lint Display First PCI/AGP.

AC97 Audio/Modem

If you select "Enabled", BIOS will detect whether you are using any Audio/Modem devices. When an Audio/Modem device is detected, the onboard Audio/Modem controller will be enabled. If you want to use your own Audio/Modem card, set these fields to "Disabled". If not, set these fields to "Auto".

IDE HDD Block Mode

Block Mode is also called Block Transfer, Multiple Commands, or Multiple Sector Read/Write. If your IDE hard drive supports Block Mode (most new drives do), select "Enabled" for automatic detection of the optimal number of Block Read/Write per sector the drive can support.

Power On Function

- Password: Power On only if you key in the correct password.
- Hot Key: You can use the hot key to Power On the system.
- Mouse Left: Power On with the Mouse Left Button.
- Mouse Right: Power On with the Mouse Right Button.

- Any Key: Press any key to Power On the system.
- Button only: Power On only by pushing the button on the case (Default).
- Keyboard 98: You can Power On system by pushing the [Power-On] key of Keyboard 98.

KB Power On Password

Enter the Power On Passward here. **Activated only when "Password" item is selected** in the Power On Function Menu.

NOTE: If you want to use this function, please make sure that the "KB-AWK" jumper is set to "Enabled".

• Hot Key Power On

Choose [CTRL] +[F1] \sim [F12] as a hot key to Power On the system. Activated only when "Hot Key" is selected on the Power On Function Menu.

Onboard FDC Controller

You can use this function to enable or disable the onboard FDC controller.

Onboard Serial Port 1/Port 2

Select an address and the corresponding interrupt for each of the first and second serial ports. The choices are: "Disabled", "3F8/IRQ4", "2F8/IRQ3", "3E8/IRQ4", "2F8/IRQ3", and "Auto". The second serial port shares the resources (address and IRQ) with IrDA.

• UART Mode Select

Choose the right type of infrared device:

- Normal: Normal operation
- IrDA: IrDA compliant serial infrared port
- ASKIR: Amplitude Shift Keyed Infrared Port

RxD, TxD Active

Consult your IR peripheral documentation to select the combination of RxD and TxD.

• IR Transmission Delay

Consult your IR peripheral documentation to select "Enabled" or "Disabled" for the IR Transmission Delay.

• UR2 Duplex Mode

This item allows you to select the IR half/full duplex function.

• Use IR Pins

This option selects IR transmission routing. Two choices are:

RxD2,TxD2 -> COMB Connector

IR-Rx2Tx2 -> IR Connector

Onboard Parallel Port

Select a logical LPT port name and matching address for the physical parallel (printer) port.

The choices are: "378/IRQ7", "278/IRQ5", "3BC/IRQ7" and "Disabled".

Parallel Port Mode

This field allows you to set the operation mode of the parallel port.

- SPP: Allows normal-speed operation, but in one direction only.
- EPP: Allows bi-directional parallel port operation at maximum speed.
- ECP: Allows DMA and bi-directional operation. It is faster than EPP mode.
- ECP + EPP: Allows normal speed operation in two-way mode.

EPP Mode Select

Select EPP port type "1.7" or "1.9".

ECP Mode Use DMA

Assign DMA channel "1" or "3" to the port for ECP mode operation.

PWR-ON After PWR-Fail

Choose if you want the system to automatically Power On after the power has failed.

- Off: Disable this function
- On: Enable this function
- Former-Sts: Not only Power On the system, but also to return it to its former status.

Game Port Address

Set Joystick Game Port Address. The choices are: "Disabled", "201" and "209".

Midi Port Address

Set Midi Port Address. The choices are: "Disabled", "330", "300" and "290".

Midi Port IRQ

Assign IRQ 5 or 10 to the Midi Port.

3.7 Power Management Setup

The Power Management Setup allows you to configure your system to minimize energy consumption, according to your own style of computer use.

```
CMOS Setup Utility
                                                - Copyright (C) 1984-1999
Power Management Setup
  ACPI Funtcion
                                                        Enabled
                                                                                                                        Item Help
ACPI Funtcion
ACPI Suspend Type
Power Management
Video Off Method
Video Off In Suspend
Suspend Type
MODEM Use IRQ
                                                        S1(POS)
User Define
                                                                                                          Menu Level
                                                        DPMS
                                                        Stop Grant
 MODEM Use IRQ
Suspend Mode
HDD Power Down
Soft-Off by PWR-BTTN
Wake-Up by PCI & WOL
Power On by Ring
USB KB Wake-Up From S3
                                                        Disabled
                                                        Disabled
                                                        Instant-Off
Disabled
                                                         Enabled
                                                        Disabled
CPU Thermal-Throttling
Resume by Alarm
Date(of Month) Alarm
Time(hh:mm:ss) Alarm
                                                        50.0%
Disabled
  ** Reload Global Timer Events **
 Primary IDE 0
Primary IDE 1
Secondary IDE 0
Secondary IDE 1
FDD,COM,LPT Port
PCI PIRQ[A-D]#
                                                        Disabled
                                                        Disabled
Disabled
                                                        Disabled
Disabled
                                                        Disabled
-+:Move Enter:Select
                                                 +/-/PU/PD:Value
                                                                                   F10:Save
                                                                                                        Esc:Exit
                                                                                                                            F1:General Help
```

ACPI Function

This item allows you to enable/disable the Advanced Configuration and Power Interface (ACPI).

• ACPI Suspend Type

Select the ACPI Suspend Type: "S1 (POS)" or "S3 (STR)".

If your expansion cards do not support the STR function, you must leave this field on "S1 (POS)" setting. The STR (Suspend-to-RAM) is an energy-saving feature. It takes only a few seconds to wake up the system and return to the previous situation.

NOTE: This feature (STR) requires an ATX power supply with at least 720mA + 5V standby power for the Advanced Configuration and Power Interface (ACPI) functions. Otherwise, the system will fail to return from suspend mode.

Power Management

This category allows you to select the type (or degree) of power saving and is directly related to the following modes:

- 1. Suspend Mode
- 2. HDD Power Down

There are three selections for Power Management. Two of them have fixed mode settings.

1. Min. Power Saving:

Minimum power management mode. Inactivity period is defined below:

Suspend Mode = 1 hr.

HDD Power Down = 15 min.

2. Max. Power Saving:

Maximum power management mode. Inactivity period is defined below:

Suspend Mode = 1 min.

HDD Power Down = 1 min.

3. User Define:

Allows you to set each mode individually. Select the time-out period for each mode shown above.

Video Off Method

Defines the Video Off features.

-Blank Screen:

Only blanks the screen. Use this for monitors without power management and "green" features.

-V/H SYNC+BLANK:

Blanks the screen and turns off vertical and horizontal scanning.

-DPMS:

The DPMS (Display Power Management System) feature allows the BIOS to control the video display card if it supports the DPMS feature.

• VIDEO Off In Suspend

This determines the manner in which the monitor is blanked. Select "Yes" to blank the monitor when the system enters suspend mode.

Suspend Type

Select Suspend Type: "Stop Grant" or "PWR ON Suspend".

MODEM Use IRQ

You can select one of the following interrupt resources for modem use: "N/A", "3", "4", "5", "7", "9", "10", and "11".

Suspend Mode

After the selected period of system inactivity (1 minute to 1 hour), all devices except the CPU will be shut down.

HDD Power Down

After the selected period of system inactivity (1 to 15 minutes), the hard disk drive powers down while all other devices remain active. This feature doesn't effect SCSI hard drives.

Soft-Off by PWR-BTTN

When set to "Instant-off", the ATX switch can be used as a normal system Power Off button. When set to "Delay 4 seconds", you need to press the Power Off button down for more than 4 seconds if you want to Power Off the system.

Wake-Up by PCI & WOL

Select "Enabled" if you want to Power On your system when a PCI or LAN event occurs.

Power On by Ring

Select "Enabled" to Power On your system when the external modem receives a call.

NOTE: This function requires an external modem which supports the Ring Wake-Up function.

• USB KB Wake-Up From S3

When your system is in S3 (Suspend to RAM) mode, you can wake-up the system by pressing the wake-up key on the USB Keyboard.

CPU Thermal-Throttling

Select the CPU Thermal-Throttling rate. If BIOS detects that the CPU temperature is too high, it will slow down the CPU's speed according to this field. The choices are: "87.5%", "75.0%", "62.5%", "50.0%", "37.5%", "25.0%" and "12.5%".

• Resume by Alarm

Select "Enabled" if you want to power up your system at a certain time on the same day every month, or at a certain time every day.

Date/Time

Set the Date and Time to Power On the system. **Activated only when the "Resume by Alarm" field is enabled.**

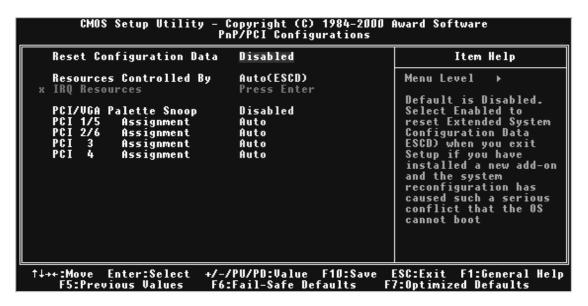
Reload Global Timer Events

When "Enabled", an event occurring on any device listed below restarts the global timer from Standby Mode, and Powers On the system.

Primary IDE 0
Primary IDE 1
Secondary IDE 0
Secondary IDE 1
FDD, COM, LPT Port
PCI PIRQ[A-D]#

The settings in these fields enable or disable the detection of IDE, floppy, serial and parallel port activities for powering down state transition. Actually, it detects read/write to/from I/O ports.

3.8 PnP/PCI Configuration Setup



Reset Configuration Data

Normally, you leave this field "Disabled". Select "Enabled" to reset Extended System Configuration Data (ESCD) if you have just installed a new add-on card and the system reconfiguration has caused such a serious conflict that the operating system cannot boot. The setting will automatically be set back to "Disabled" the next time the system reboots.

Resources Controlled by

The Award Plug-and-Play BIOS can automatically configure all the boot and Plug-and-Play (PnP) compatible devices. If you select "Auto", all of the Interrupt Requests (IRQs) and DMA assignment fields will be activated as the BIOS automatically assigns them. The choices are: "Auto" and "Manual".

IRQ Resources



• IRQ-n Assigned to

When the resources are controlled manually, assign each System Interrupt to one of the following, depending on which type of device is using the interrupt.

- Legacy ISA Devices requiring a specific interrupt (such as IRQ4 for serial port1), compliant with the original PC AT bus specification.
- PCI/ISA PnP devices, whether designed for PCI or ISA bus architecture, compliant with the Plug and Play standard.

• PCI/VGA Palette Snoop

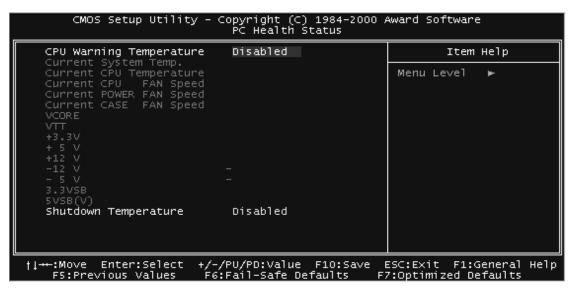
Some VGA cards, such as graphics accelerators or MPEG video cards, might not show colors properly. Select "Enabled" to correct this problem. If you don't have such problems, leave this field at "Disabled".

PCI n Assignment

Each PCI Slot can assign its own IRQ number. When you assign one and find out that the real IRQ is different from your assignment, the IRQ you assign must be taken over by another device like Printer, USB Controller, MIDI, etc.

3.9 PC Health Status

This menu provides two thermo-protect functions (CPU warning temperature and shutdown temperature) and a hardware monitor center. These features let you know the health status of your PC.



• CPU Warning Temperature

This field allows you to set the CPU warning temperature. You can choose from "50°C/122°F" to "70°C/158°F" or even "Disabled" if you like.

Current CPU/System Temperature

These two fields display the CPU and the on-board system temperature.

Current CPU/Power/Case Fan Speed

These fields display the fan speeds of the CPU fan, Power fan and Case fan.

VCORE

This field displays the CPU working voltage.

VTT

This field displays the GTL bus voltage.

+5V/+12V/-12V/-5V

These fields show the power supply voltages.

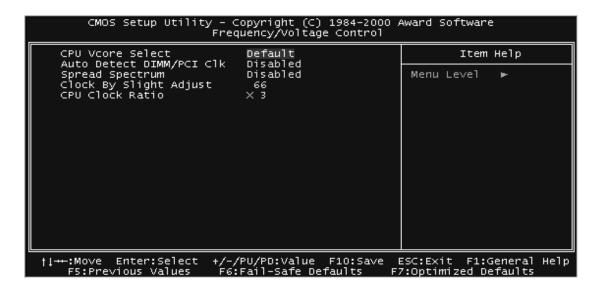
• 3.3VSB/5VSB(V)

This field displays the 3.3V/5V standby power supplied to the CMOS battery.

Shutdown Temperature

This field allows you to set the CPU shutdown temperature. The choices are: "60°C/140°F", "65°C/149°F", "70°C/158°F" and "75°C/167°F".

3.10 Frequency/Voltage Control



• CPU Vcore Select

This option adjusts the CPU voltage. Available selections are Default /+0.05V/+0.1V/+0.2V/+0.3V/+0.4V/-0.05V/-0.1V

Auto Detect DIMM/PCI Clk

"Enable" can stop the frequency output for unused DIMM/PCI slots.

Spread Spectrum

"Enable" provides spread Spectrum for better EMI solution.

Clock By Slight Adjust

This function allows you to set the FSB frequency of the CPU and the speed of the PCI bus. When JP4 is set to Auto, the frequency setting depends on your CPU type. When JP4 is set to 66MHz, you can select the system bus frequency from 66MHz to 99 MHz. When JP4 is set to 100MHz, you can select the system bus frequency from 100MHz to 132MHz. When JP4 is set to 133MHz, you can select the system bus frequency from 133MHz to 166MHz. When you overclock the CPU too much, some devices on the motherboard might not function well, like onboard CODEC. When this situation happens, reduce the frequency.

• CPU Clock Ratio

This function allows you to set the CPU internal frequency ratio. It determines the CPU internal frequency according to the following formula:

CPU internal frequency = frequency ratio x system bus frequency.*

* System bus frequency is set in the previous field ("CPU Host/PCI Clock").

The choices are: "3", "3.5", "4", "4.5", "5", "5.5", "6", "6.5", "7", "7.5", and "8" or "8.5", "9", "10" "10.5", "11", "11.5", "12". The two different tables depend on your CPU type.

NOTE: Because Intel has locked the frequency ratio for new CPU settings, this field to adjust the frequency ratio is usually useless. However, it is effective for older version CPUs.

3.11 Load Fail-Safe Defaults

This option allows you to load the troubleshooting default values permanently stored in the BIOS ROM. **NOTE: These default settings are non-optimal and disable all high performance features.**

3.12 Load Optimized Defaults

This option allows you to load the default values to the system configuration fields. These default values are the optimized configuration settings for the system.

```
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
                                                        aword
► PnP/PCI Configura
                     Load Optimized Defaults (Y/N)? N
► PC Health Status
Esc : Quit
F10 : Save & Exit Setup
                                        † 1 → ← : Select Item
                           Load Optimized Defaults
```

3.13 Supervisor Password

This option allows you to set a password to prevent others from changing the BIOS settings of your system.



The password prevents any unauthorized use of your computer. If you set a password, the system prompts for the correct password before you boot or access "Setup".

To set a password:

- 1. At the prompt, type your password. Your password can be up to 8 alpha-numeric characters. When you type the characters, they appear as asterisks (*) on the password screen box.
- 2. After typing the password, press [Enter] key.
- 3. At the next prompt, re-type your password and press [Enter] key again to confirm the new password. After the password entry, the screen automatically reverts to the main screen.

To disable the password, press [Enter] key when prompted to enter the password. The screen displays a message confirming that the password has been disabled.

Forget the password?

If you forget the password, you can clear it by erasing the CMOS Real Time Clock (RTC) RAM with the jumper 1 (CMOS_CLR). To erase the RTC RAM:

- 1. Unplug your computer.
- 2. Set the JP1 to "CMOS_CLR" for about 10 seconds, and then return to the default setting.
- 3. Turn on your computer.
- Hold down [Delete] key during the POST process and enter BIOS setup to re-configure BIOS settings.

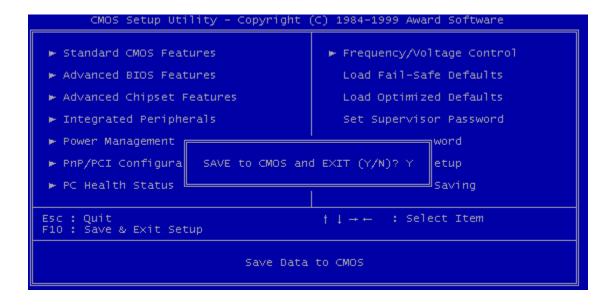
3.14 User Password

This option allows you to set a password to prevent others from changing the BIOS settings of your system. This operation is the same as Supervisor Password.



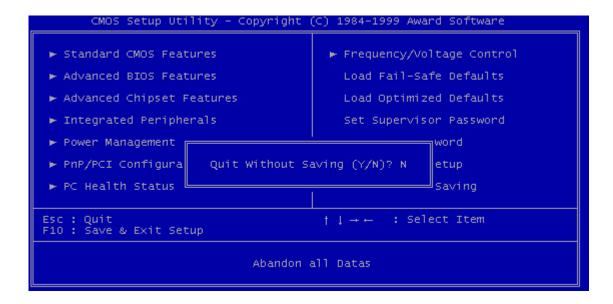
3.15 Save & Exit Setup

Save the settings and exit the BIOS utility.



3.16 Exit Without Saving

Abort current changes and exit the BIOS utility.

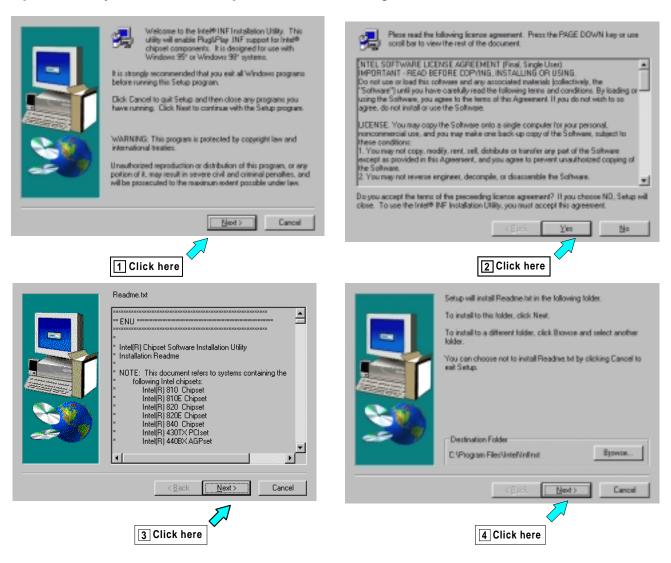


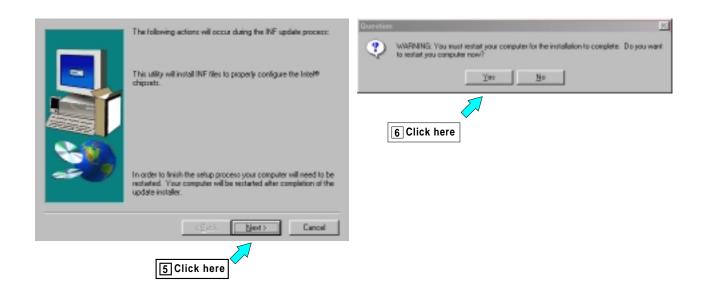
CHAPTER 4 SOFTWARE SETUP

Insert the CD-ROM enclosed with your motherboard into the CD-ROM drive. After the Autorun program has executed, please check the model name shown on the screen. If the model name doesn't match your motherboard, please select the correct one.

4.1 INF Update for 815EP Chipset

This section introduces INF files in Windows 95/98 for the following items: System and Graphics, LPS Interface, SM Bus, PCI Bridge, Bus master IDE, USB Host, and Controllers. Click **INF Update Utility for Intel 81X chipset**, and follow the figures as below.

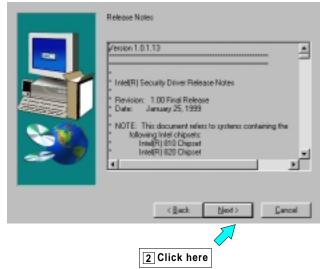


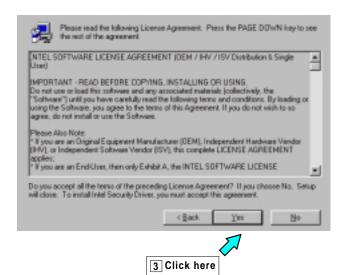


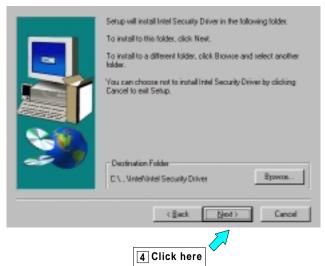
4.2 Intel Security Controller Driver

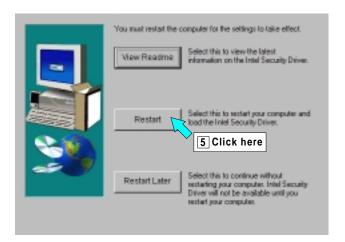
This section helps you to install a security controller for Windows 95/98. Click **Security Driver Setup**, and then follow the figures as below:











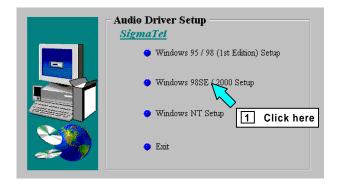
4.3 Audio Driver Setup

This section helps you to setup the onboard audio device. Click <u>Audio Driver Setup</u>, and choose the operating system you use.

A. Audio Driver for Windows 95/98/2000

The following figures are captured from Windows 98SE. You can setup the Audio CODEC in almost the same way in Windows 95 and Windows 2000.

SOFTWARE SETUP





2 Click here

4 Click here

Please read the following License Agreement. Press the PAGE DOWN key to see the rest of the agreement.

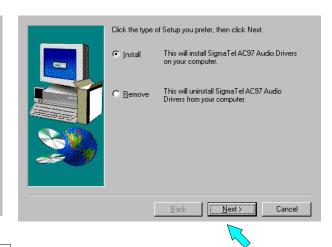
SOFTWARE LICENSE

This Software License is provided by SigmaTel, Inc., having a place of business at 6101 West Courtyard Drive, Building 1, Austin, Texas 78730 (hereinafter referred to as "SigmaTel") to Customer.

WHEREAS, SigmaTel has developed or is having developed "SigmaTel Audio Control Application Software" and "SigmaTel Surround Application Software" for interfacing with a SigmaTel Codec (hereinafter collectively referred to as "Software"); and

WHEREAS, SigmaTel desires to license the Software to the Customer for evaluation purposes only.

Do you accept all the terms of the preceding License Agreement? If you choose No, Setup will close. To install SigmaTel AC97 Audio Drivers, you must accept this agreement.



Setup has finished copying the SigmaTel AC97 Audio Drivers files to your computer.

Before you can use the SigmaTel AC97 Audio Drivers , you must restart Windows or your computer.

Yes, I want to restart my computer now.

No, I will restart my computer later.

Remove any disks from their drives, and then click Finish to complete setup.

ter later.

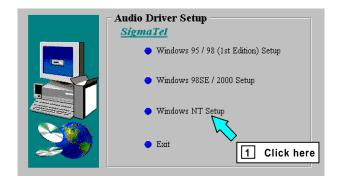
ives, and then click Finish to

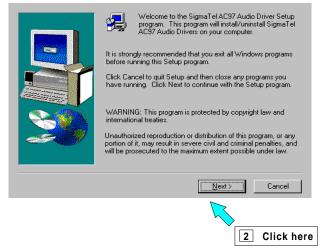
Finish

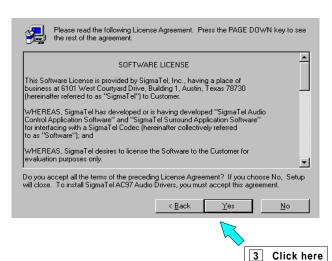
Click here

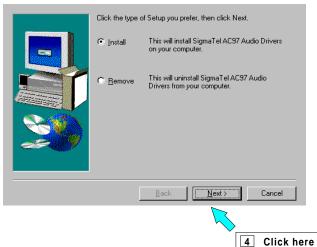
3 Click here

B. Audio Driver for Windows NT











5 Click here

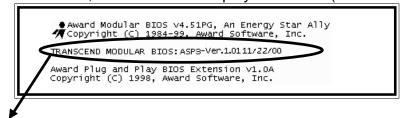
CHAPTER 5 BIOS UPGRADE

Caution!

Only users familiar with the upgrade procedure are recommended to update the BIOS of the motherboard and only when there is a need to do so. Please note that you have to download and install the right file for your motherboard. Otherwise, you might cause some serious system malfunctions.

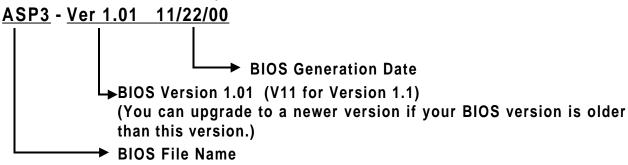
5.1 How to Check Your BIOS File Name and Version

Please turn on PC first, the screen will display as follows (For example):



TRANSCEND MODULAR BIOS: ASP3-Ver.1.01 11/22/00.

You can see the BIOS description on the third line.



(Make sure the first 5 characters are exactly the same as your own version if you want to upgrade your BIOS.)

5.2 How to Download the Correct BIOS File from the Web

Please enter the Transcend website on: http://www.transcendusa.com/

On the front page, click on the "Motherboard" icon, which is the second one down. On the Motherboard page, click on the "BIOS" icon near the top. The BIOS page contains important information: please take the time to read this page carefully. Go to the bottom of the BIOS page, click on "Slot 1" and choose your motherboard model.

Your BIOS file name must absolutely match the one shown on our web site. Then download the suitable version to your disk.

Warning:Your system could be damaged if the wrong BIOS version is accidently used. If you are not sure what version you should choose, please contact us at: techsupport@transcend.com.tw

5.3 How to Upgrade Your Motherboard BIOS

Please follow the 5 steps listed below to upgrade your BIOS.

- Step 1: Make a record of your original or existing BIOS Setup parameters.
 - Press [Del] during the Power On Self Test to enter the BIOS Setup Program when you start your system.
 - Write down the value of each parameter in order to re-configure your system after BIOS updating.
- Step 2: Make a System Disk
 - Put a clean 3.5" disk in Drive A

MS-DOS: Key in Format A:/S and press [Enter].

Windows O/S: Select the **My Computer** icon.

Click [3.5" Floppy (A:)]

Select [File/Format] from Command Bar

Under Format 3.5 Floppy (A:) Menu select

Format type = Full item, and

Other Options = Copy system files

Click [Start] button

Step 3: Download the updated **Bios.exe** file from the web site to a floppy disk.

(Ref 5.1 and 5.2)

- Step 4: Type **Bios.exe** to decompress it.
- Step 5: Please read the **Readme.txt** file carefully, and follow the instructions step by step.

Then you can finish the BIOS upgrade.

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