

8S661FXME-RZ

Intel Pentium® 4 Processor Motherboard

User's Manual

Rev. 1001

12ME-661FERZ-1001R

Copyright

© 2005 GIGABYTE TECHNOLOGY CO., LTD

Copyright by GIGA-BYTE TECHNOLOGY CO., LTD. ("GBT"). No part of this manual may be reproduced or transmitted in any form without the expressed, written permission of GBT.

Trademarks

Third-party brands and names are the property of their respective owners.

Notice

Please do not remove any labels on motherboard, this may void the warranty of this motherboard.

Due to rapid change in technology, some of the specifications might be out of date before publication of this booklet.

The author assumes no responsibility for any errors or omissions that may appear in this document nor does the author make a commitment to update the information contained herein.

Declaration of Conformity

We, Manufacturer/Importer

G.B.T. Technology Trading GmbH

Ausschlagter Weg 41, 1F 20537 Hamburg, Germany

declare that the product

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

MOBILE BOARD

856617XME-RZ

is in conformity with

(reference to the specifications with which conformity is declared)

in accordance with 89/338 EEC-EMC Directive

☐ EN 55011

Limits and methods of measurement of radio disturbance characteristics of industrial, scientific and medical (ISM) high frequency equipment

☒ EN 51000-3-2

Disturbances in supply systems caused by radio frequency equipment (RFE) electrical equipment "Voltage fluctuations"

☐ EN 55013

Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment

☒ EN 55024

Information Technology equipment - Limits and methods of measurement

☐ EN 55014-1

Limits and methods of measurement of radio disturbance characteristics of household electrical appliances, portable tools and similar electrical apparatus

☐ EN 55002-1

Generic immunity standard Part 1: Residential, commercial and light industry

☐ EN 55015

Limits and methods of measurement of radio disturbance characteristics of fluorescent lamps and luminaires

☐ EN 55014-2

Immunity requirements for household appliances, tools and similar apparatus

☐ EN 55020

Immunity from radio interference of broadcast receivers and associated equipment

☐ EN 55091-2

EMC requirements for uninterruptible power systems (UPS)

☒ EN 55022

Limits and methods of measurement of radio disturbance characteristics of information technology equipment

☐ EN 1247E 0055

Cabled distribution systems: Equipment for receiving and/or distribution from part 12

☒ CE marking



(EC conformity marking)

The manufacturer also declares the conformity of above mentioned product with the actual required safety standards in accordance with LVD 73/23 EEC

☐ EN 60065

Safety requirements for mains operated household and similar general use

☐ EN 60950

Safety for information technology equipment including electrical business equipment

☐ EN 60335

Safety of household and similar electrical appliances

☐ EN 50091-1

General and Safety requirements for uninterruptible power systems (UPS)

Manufacturer/Importer

Signature: Jimmy Huang

(Stamp)

Date: Nov. 1, 2005

Name: Timmy Huang

DECLARATION OF CONFORMITY

Per FCC Part 2,1077(a)



Responsible Party Name: G.B.T. INC. (U.S.A.)

Address: 17358 Railroad Street

City of Industry, CA 91748

Phone/Fax No: (818) 854-9338/ (818) 854-9339

hereby declares that the product

Product Name: **Motherboard**

Model Number: **85661FXME-RZ**

Conforms to the following specifications:

FCC Part 15, Subpart B, Section 15.107(a) and Section 15.109

(a), Class B Digital Device

Supplementary Information:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful and (2) this device must accept any interference received, including that may cause undesired operation.

Representative Person's Name: ERIC LU

Signature: Eric Lu

Date: Nov. 1, 2005

Preparing Your Computer

Computer motherboards and expansion cards contain very delicate Integrated Circuit (IC) chips. To protect them against damage from static electricity, you should follow some precautions whenever you work on your computer.

1. Unplug your computer when working on the inside.
2. Use a grounded wrist strap before handling computer components. If you do not have one, touch both of your hands to a safely grounded object or to a metal object, such as the power supply case.
3. Hold components by the edges and try not touch the IC chips, leads or connectors, or other components.
4. Place components on a grounded antistatic pad or on the bag that came with the components whenever the components are separated from the system.
5. Ensure that the ATX power supply is switched off before you plug in or remove the ATX power connector on the motherboard.



Installing the motherboard to the chassis

If the motherboard has mounting holes, but they don't line up with the holes on the base and there are no slots to attach the spacers, do not become alarmed you can still attach the spacers to the mounting holes. Just cut the bottom portion of the spacers (the spacer may be a little hard to cut off, so be careful of your hands). In this way you can still attach the motherboard to the base without worrying about short circuits. Sometimes you may need to use the plastic springs to isolate the screw from the motherboard PCB surface, because the circuit wire may be near by the hole. Be careful, don't let the screw contact any printed circuit write or parts on the PCB that are near the fixing hole, otherwise it may damage the board or cause board malfunctioning.

Table of Contents

Chapter 1 Introduction	5
Features Summary	5
8S661FXME-RZ Motherboard Layout	7
Block Diagram	8
Hardware Installation Process	9
Step 1: Install the Central Processing Unit (CPU)	9
Step 1-1: Installation of the CPU	10
Step 1-2: Installation of the Heatsink	10
Step 2: Installation of Memory	11
Step 3: Installation of Expansion Cards	12
Step 4: Installation of I/O Peripherals Cables	12
Step 4-1: I/O Back Panel Introduction	12
Step 4-2: Connectors Introduction	13
 Chapter 2 BIOS Setup	 21
The Main Menu (For example: BIOS Ver. : F1)	21
Standard CMOS Features	23
Advanced BIOS Features	25
Integrated Peripherals	27
Power Management Setup	29
PnP/PCI Configurations	31
PC Health Status	32
MB Intelligent Tweaker(M.I.T.)	33
Select Language	34
Load Default Settings	34
Set Supervisor/User Password	35
Save & Exit Setup	36
Exit Without Saving	36
 Chapter 3 Install Drivers	 37

Chapter 1 Introduction

Features Summary

CPU	• Socket 478 for Intel® Pentium® 4 (Northwood, Prescott) with HT Technology • Supports 800/533/400MHz FSB • L2 cache varies with CPU
Chipset	• Northbridge: SiS® 661FX Chipset • Southbridge: SiS® 963L
Memory	• 2 DDR DIMM memory slots (supports up to 2GB memory) • Supports DDR400/DDR333/DDR266 • Supports 2.5V DDR DIMM
Slots	• 1 AGP slot 4X/8X (1.5V) device support • 3 PCI slots
IDE Connections	• 2 IDE connection (UDMA 33/ATA66/ATA100/ATA133), allows connection of 4 IDE devices
FDD Connections	• 1 FDD connection, allows connection of 2 FDD devices
Peripherals	• 1 parallel port supporting Normal/EPP/ECP mode • 1 serial port (COMA), 1 VGA port • 6 USB 2.0/1.1 ports (rear x 2, front x 4 via cable) • 1 front audio connector • 1 PS/2 keyboard port • 1 PS/2 mouse port
Onboard VGA	• Built-in SiS® 661FX Chipset
Onboard LAN	• Built-in RTL8100C Chipset • 1 RJ45 port
Onboard Audio	• ALC655 CODEC • Supports Jack Sensing function • Supports 2 / 4 / 6 channel audio • Supports Line In (Rear Speaker Out) ; Line Out (Front Speaker Out) ; MIC (Center/Subwoofer Speaker Out) • SPDIF In/Out connection • CD In / AUX In connection • Game port
BIOS	• Use of licensed AWARD BIOS • Supports Q-Flash

I/O Control	• IT8705
Hardware Monitor	• System voltage detection • CPU / System temperature detection • CPU / System fan speed detection • CPU / System fan control
Additional Features	• Supports @BIOS • Supports EasyTune (only supports Hardware Monitor function) ^(Note)
Form Factor	• Micro ATX form factor; 24.3cm x 24.3cm

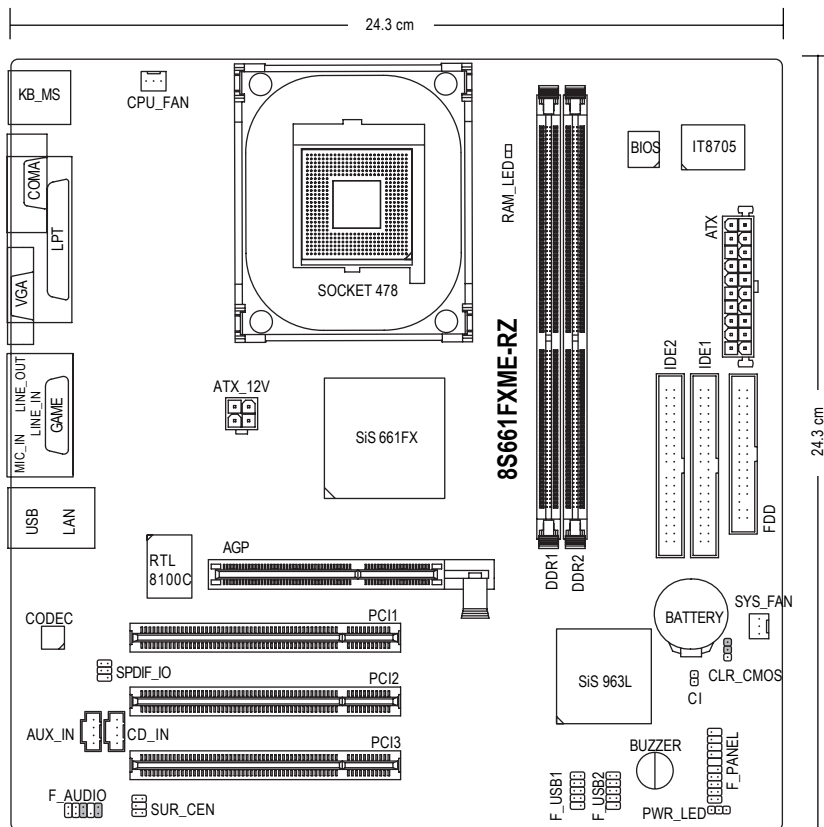
(Note) EasyTune functions may vary depending on different motherboards.



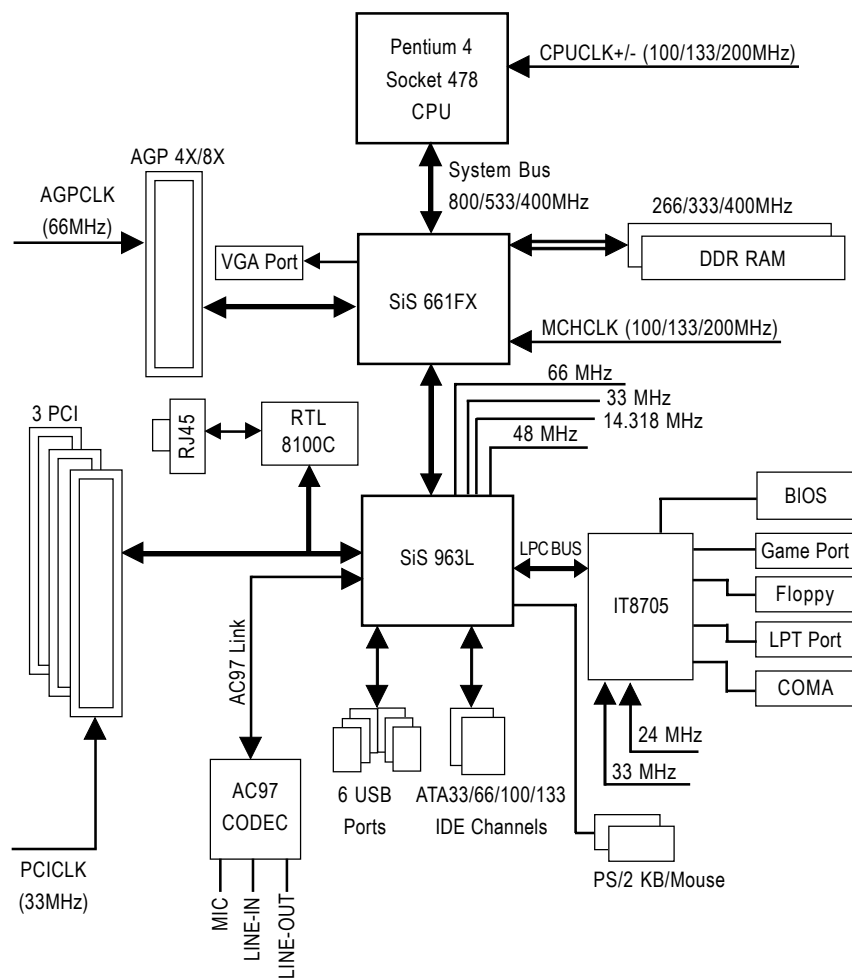
Please set the CPU host frequency in accordance with your processor's specifications.

We don't recommend you to set the system bus frequency over the CPU's specification because these specific bus frequencies are not the standard specifications for CPU, chipset and most of the peripherals. Whether your system can run under these specific bus frequencies properly will depend on your hardware configurations, including CPU, Chipsets, Memory, Cards.....etc.

8S661FXME-RZ Motherboard Layout



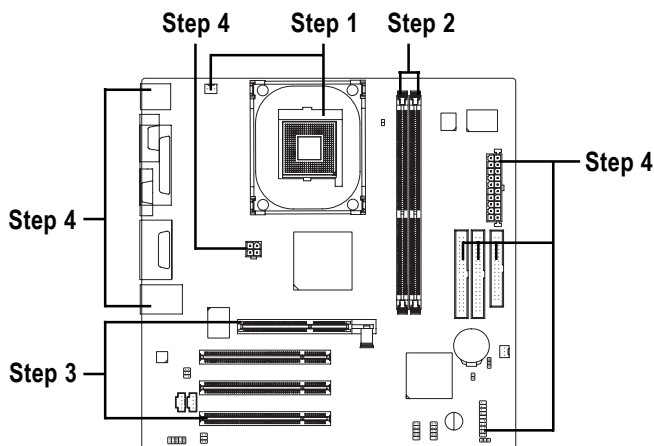
Block Diagram



Hardware Installation Process

To set up your computer, you must complete the following steps:

- Step 1- Install the Central Processing Unit (CPU)
- Step 2- Installation of Memory
- Step 3- Installation of Expansion Cards
- Step 4- Installation of I/O Peripherals Cables



Step 1: Install the Central Processing Unit (CPU)



Before installing the CPU, please comply with the following conditions:

1. Please make sure that the motherboard supports the CPU.
2. Please take note of the one indented corner of the CPU. If you install the CPU in the wrong direction, the CPU will not insert properly. If this occurs, please change the insert direction of the CPU.
3. Please add an even layer of heat sink paste between the CPU and heatsink.
4. Please make sure the heatsink is installed on the CPU prior to system use, otherwise overheating and permanent damage of the CPU may occur.
5. Please set the CPU host frequency in accordance with the processor specifications. It is not recommended that the system bus frequency be set beyond hardware specifications since it does not meet the required standards for the peripherals. If you wish to set the frequency beyond the proper specifications, please do so according to your hardware specifications including the CPU, graphics card, memory, hard drive, etc.



HT functionality requirement content :

Enabling the functionality of Hyper-Threading Technology for your computer system requires all of the following platform components:

- CPU: An Intel® Pentium 4 Processor with HT Technology
- Chipset: An Intel® Chipset that supports HT Technology
- BIOS: A BIOS that supports HT Technology and has it enabled
- OS: An operation system that has optimizations for HT Technology

Step 1-1: Installation of the CPU

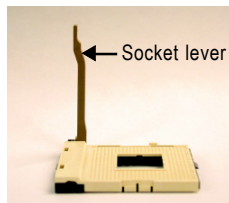


Fig. 1

Position lever at a 90 degree angle.

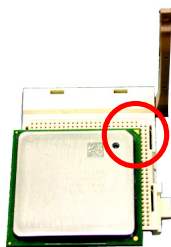


Fig. 2

A gold-colored triangle is marked one edge of the CPU. Please align this edge with the socket edge closest to the CPU lever. Gently place the CPU into position making sure that the CPU pins fit perfectly into their holes. Once the CPU is positioned into its socket, place one finger down on the middle of the CPU and gently press the metal lever back into its original position.



CAUTION

Please use extra care when installing the CPU. The CPU will not fit if positioned incorrectly. Rather than applying force, please change the positioning of the CPU.

Step 1-2: Installation of the Heatsink



Fig.1

Before installing the heat sink, please first add an even layer of heat sink paste on the surface of the CPU.

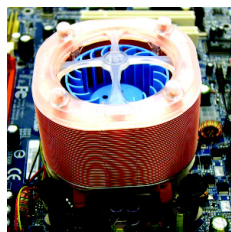


Fig.2

Install all the heat sink components (Please refer to the heat sink manual for detailed installation instructions).

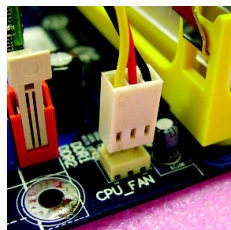


Fig.3

Please connect the heat sink power connector to the CPU_FAN connector located on the motherboard so that the heat sink can properly function to prevent CPU overheating.



NOTE

The heat sink may adhere to the CPU as a result of hardening of the heat sink paste. To prevent such an occurrence, it is suggested that either thermal tape rather than heat sink paste be used for heat dissipation or using extreme care when removing the heat sink.

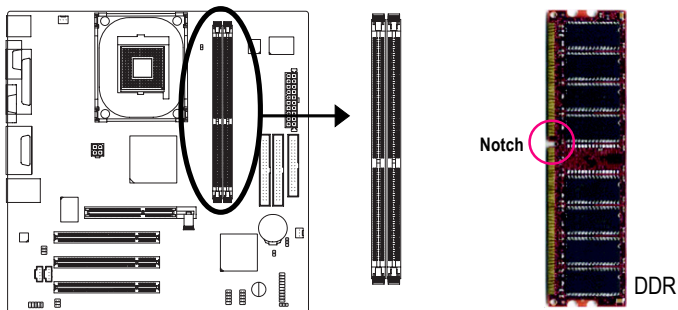
Step 2: Installation of Memory



Before installing the memory modules, please comply with the following conditions:

1. Please make sure that the memory used is supported by the motherboard. It is recommended that memory of similar capacity, specifications and brand be used.
2. Before installing or removing memory modules, please make sure that the computer power is switched off to prevent hardware damage.
3. Memory modules have a foolproof insertion design. A memory module can be installed in only one direction. If you are unable to insert the module, please switch the direction.

The motherboard supports DDR memory modules, whereby BIOS will automatically detect memory capacity and specifications. Memory modules are designed so that they can be inserted only in one direction. The memory capacity used can differ with each slot.



Support Unbuffered DDR DIMM Sizes type:

64 Mbit (2Mx8x4 banks)	64 Mbit (1Mx16x4 banks)	128 Mbit (4Mx8x4 banks)
128 Mbit (2Mx16x4 banks)	256 Mbit (8Mx8x4 banks)	256 Mbit (4Mx16x4 banks)
512 Mbit (16Mx8x4 banks)	512 Mbit (8Mx16x4 banks)	



Fig.1

The DIMM socket has a notch, so the DIMM memory module can only fit in one direction. Insert the DIMM memory module vertically into the DIMM socket. Then push it down.



Fig.2

Close the plastic clip at both edges of the DIMM sockets to lock the DIMM module.

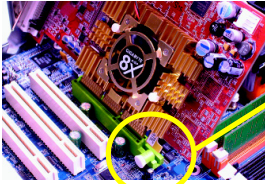
Reverse the installation steps when you wish to remove the DIMM module.

Step 3: Installation of Expansion Cards

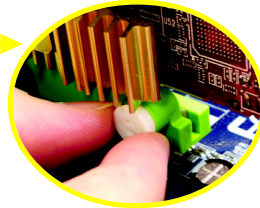
1. Read the related expansion card's instruction document before install the expansion card into the computer.
2. Please make sure your AGP card is AGP 4X/8X (1.5V).



3. Please carefully pull out the small white-drawable bar at the end of the AGP slot when you try to install / uninstall the AGP card. Please align the AGP card to the onboard AGP slot and press firmly down on the slot .Make sure your AGP card is locked by the small white-drawable bar.

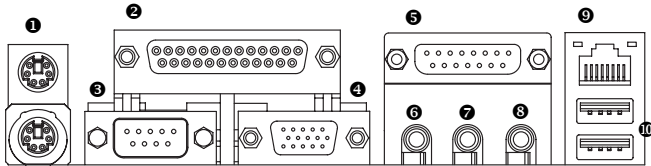


AGP Card



Step 4: Installation of I/O Peripherals Cables

Step 4-1: I/O Back Panel Introduction



❶ PS/2 Keyboard and PS/2 Mouse connector

This connector supports standard PS/2 keyboard and PS/2 mouse.

❷ Parallel port (LPT)

Device like printer can be connected to Parallel port.

❸ Serial port (COMA)

Mouse and modem etc. can be connected to Serial port.

❹ VGA port

Monitor can be connected to VGA port.

❺ Game/MIDI port

This connector supports joystick, MIDI keyboard and other relate audio devices.

❻ Line Out jack

Connect the stereo speakers or earphone to this connector.

❼ Line In jack

Devices like CD-ROM, walkman etc. can be connect to Line In jack.

⑧ MIC In jack

Microphone can be connect to MIC In jack.

After installation of the audio driver, you are able to use 2/4/6-channel audio feature by software selection. You can connect "Front speaker" to "Line Out" jack, Connect "Rear speaker" to "Line In" jack and connect "Center/Subwoofer" to "MIC In" jack.

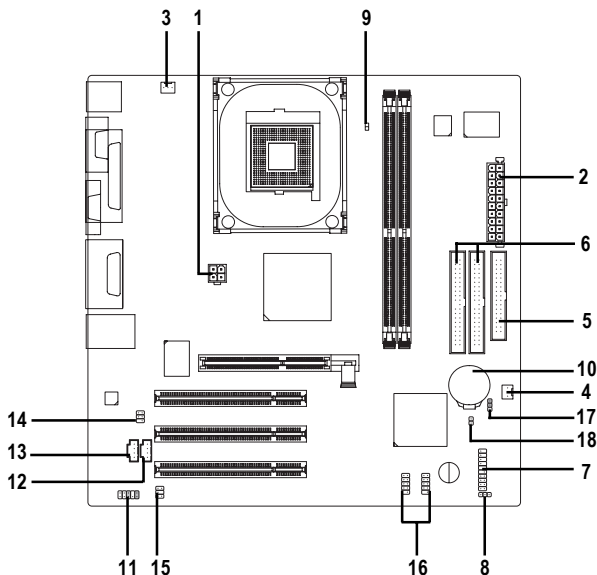
⑨ LAN port

LAN is fast Ethernet with 10/100Mbps speed.

⑩ USB port

Before you connect your device(s) into USB connector(s), please make sure your device(s) such as USB keyboard, mouse, scanner, zip, speaker...etc. Have a standard USB interface. Also make sure your OS supports USB controller. If your OS does not support USB controller, please contact OS vendor for possible patch or driver upgrade. For more information please contact your OS or device(s) vendors.

Step 4-2: Connectors Introduction

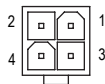
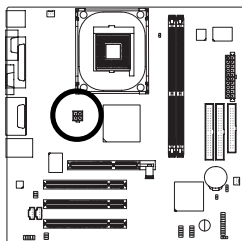


1) ATX_12V	10) BATTERY
2) ATX	11) F_AUDIO
3) CPU_FAN	12) CD_IN
4) SYS_FAN	13) AUX_IN
5) FDD	14) SPDIF_IO
6) IDE1 / IDE2	15) SUR_CEN
7) F_PANEL	16) F_USB1 / F_USB2
8) PWR_LED	17) CLR_CMOS
9) RAM_LED	18) CI

1) ATX_12V (+12V Power Connector)

This connector (ATX_12V) supplies the CPU operation voltage (Vcore).

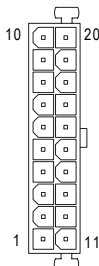
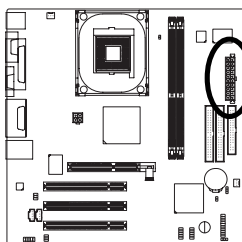
If this " ATX_12V connector" is not connected, system cannot boot.



Pin No.	Definition
1	GND
2	GND
3	+12V
4	+12V

2) ATX (ATX Power)

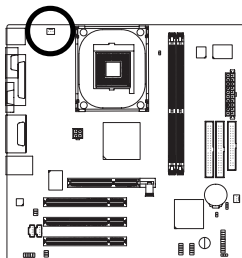
AC power cord should only be connected to your power supply unit after ATX power cable and other related devices are firmly connected to the mainboard.



Pin No.	Definition	Pin No.	Definition
1	3.3V	11	3.3V
2	3.3V	12	-12V
3	GND	13	GND
4	+5V	14	PS_ON(soft on/off)
5	GND	15	GND
6	+5V	16	GND
7	GND	17	GND
8	Power Good	18	-5V
9	5V SB (stand by +5V)	19	+5V
10	+12V	20	+5V

3) CPU_FAN (CPU FAN Connector)

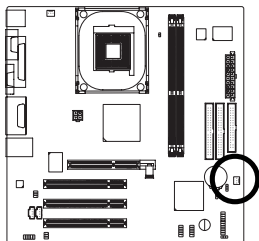
A proper installation of the CPU cooler is essential to prevent the CPU from running under abnormal condition or damaged by overheating. The CPU fan connector supports Max. current up to 600 mA.



Pin No.	Definition
1	GND
2	+12V
3	Sense

4) SYS_FAN (System Fan Connector)

This connector allows you to link with the cooling fan on the system case to lower the system temperature.

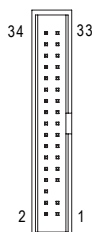
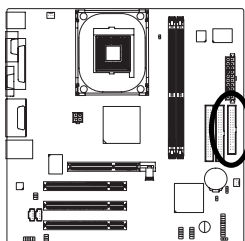


Pin No.	Definition
1	GND
2	+12V
3	Sense

5) FDD (Floppy Connector)

Please connect the floppy drive ribbon cables to FDD. It supports 360K,720K,1.2M,1.44M and 2.88Mbytes floppy disk types.

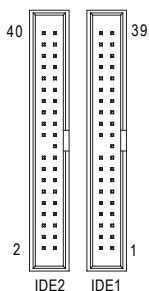
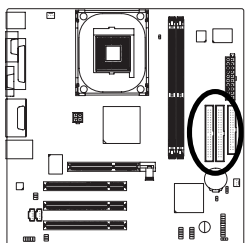
The red stripe of the ribbon cable must be the same side with the Pin1.



6) IDE1 / IDE2 (IDE Connector)

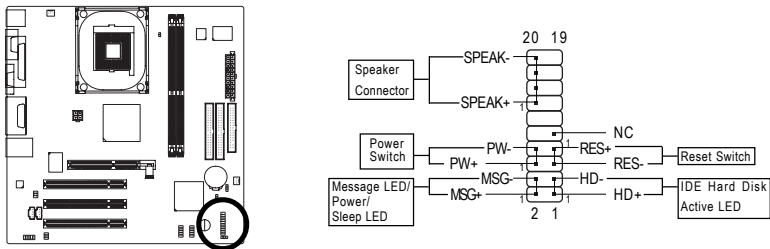
Please connect first harddisk to IDE1 and connect CDROM to IDE2.

The red stripe of the ribbon cable must be the same side with the Pin1.



7) F_PANEL (2x10 pins connector)

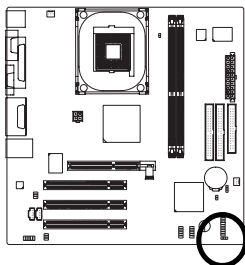
Please connect the power LED, PC speaker, reset switch and power switch etc. of your chassis front panel to the F_PANEL connector according to the pin assignment above.



HD (IDE Hard Disk Active LED)	Pin 1: LED anode(+) Pin 2: LED cathode(-)
SPEAK (Speaker Connector)	Pin 1: VCC(+) Pin 2- Pin 3: NC Pin 4: Data(-)
RES (Reset Switch)	Open: Normal Operation Close: Reset Hardware System
PW (Power Switch)	Open: Normal Operation Close: Power On/Off
MSG (Message LED/Power/ Sleep LED)	Pin 1: LED anode(+) Pin 2: LED cathode(-)
NC	NC

8) PWR_LED

PWR_LED is connect with the system power indicator to indicate whether the system is on/off. It will blink when the system enters suspend mode. If you use dual color LED, power LED will turn to another color.

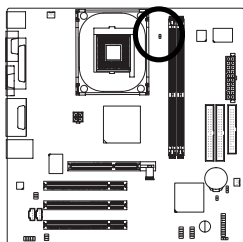


1

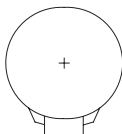
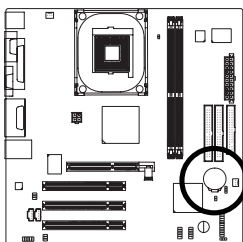
Pin No.	Definition
1	MPD+
2	MPD-
3	MPD-

9) RAM_LED

Do not remove memory modules while RAM_LED is on. It might cause short or other unexpected damages due to the stand by voltage. Remove memory modules only when AC power cord is disconnected.



10) BATTERY



- ❖ Danger of explosion if battery is incorrectly replaced.
- ❖ Replace only with the same or equivalent type recommended by the manufacturer.
- ❖ Dispose of used batteries according to the manufacturer's instructions.

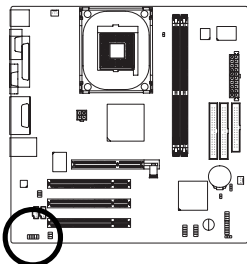
If you want to erase CMOS...

1. Turn off the computer and unplug the power cord.
2. Take out the battery gently and put it aside for about 10 minutes (Or you can use a metal object to connect the positive and negative pins in the battery holder to make them short for one minute).
3. Re-install the battery.
4. Plug the power cord and turn on the computer.

11) F_AUDIO (Front Audio Panel Connector)

If you want to use Front Audio connector, you must remove 5-6, 9-10 Jumper.

In order to utilize the front audio header, your chassis must have front audio connector. Also please make sure the pin assignments for the cable are the same as the pin assignments for the front audio header. To find out if the chassis you are buying support front audio connector, please contact your dealer. Please note, you can have the alternative of using front audio connector or of using rear audio connector to play sound.

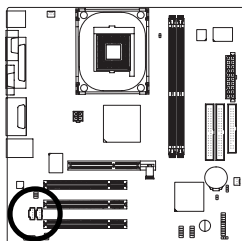


Pin No.	Definition
1	MIC
2	GND
3	MIC_BIAS
4	Power
5	Front Audio(R)
6	Rear Audio(R)/Return R
7	NC
8	No Pin
9	Front Audio(L)
10	Rear Audio(L)/Return L

12/13) CD_IN (CD In Connector, black) / AUX_IN (AUX In Connector, white)

Connect CD-ROM or DVD-ROM audio out to the connector.

Connect other device (such as PCI TV Tuner audio out) to the connector.

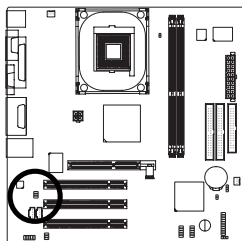


Pin No.	Definition
1	CD_L
2	GND
3	GND
4	CD_R

Pin No.	Definition
1	AUX-L
2	GND
3	GND
4	AUX_R

14) SPDIF_IO (SPDIF In / Out Connector)

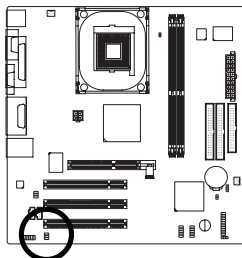
The SPDIF output is capable of providing digital audio to external speakers or compressed AC3 data to an external Dolby Digital Decoder. Use this feature only when your stereo system has digital input function. Be careful with the polarity of the SPDIF_IO connector. Check the pin assignment carefully while you connect the SPDIF cable, incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional SPDIF_IO cable, please contact your local dealer.



Pin No.	Definition
1	Power
2	No Pin
3	SPDIF
4	SPDIF
5	GND
6	GND

15) SUR_CEN

Please contact your nearest dealer for optional SUR_CEN cable.



Pin No.	Definition
1	SUR OUTL
2	SUR OUTR
3	GND
4	No Pin
5	CENTER_OUT
6	BASS_OUT

16) F_ USB1 / F_USB2 (Front USB Connector)

Be careful with the polarity of the front USB connector. Check the pin assignment carefully while you connect the front USB cable, incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional front USB cable, please contact your local dealer.

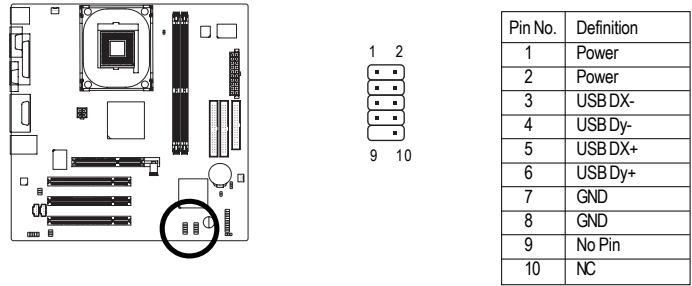


Diagram of the motherboard showing the location of the F_USB1 / F_USB2 connector. A detailed view of the 10-pin header is shown with pins numbered 1 to 10. The pin definitions are as follows:

Pin No.	Definition
1	Power
2	Power
3	USB DX-
4	USB Dy-
5	USB DX+
6	USB Dy+
7	GND
8	GND
9	No Pin
10	NC

17) CLR_CMOS (Clear CMOS)

You may clear the CMOS data to its default values by this jumper. To clear CMOS, temporarily short 1-2 pin. Default doesn't include the "Shunter" to prevent from improper use this jumper.

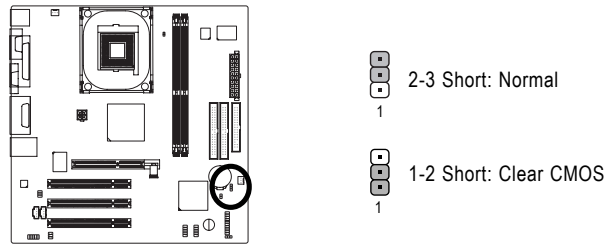


Diagram of the motherboard showing the location of the CLR_CMOS jumper. Two configurations are shown:

- 2-3 Short: Normal
- 1-2 Short: Clear CMOS

18) CI (Chassis Intrusion, Case Open)

This 2-pin connector allows your system to detect if the chassis cover is removed. You can check the "Case Opened" status in BIOS Setup.

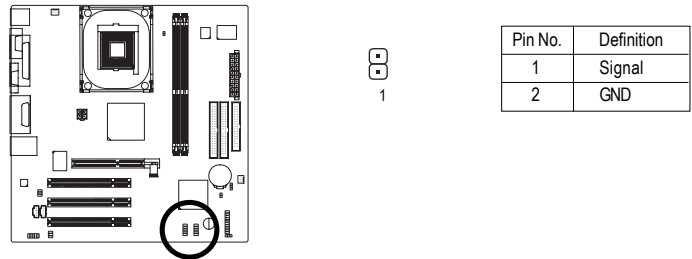


Diagram of the motherboard showing the location of the CI connector. A detailed view of the 2-pin header is shown with pins numbered 1 to 2. The pin definitions are as follows:

Pin No.	Definition
1	Signal
2	GND

Chapter 2 BIOS Setup

BIOS Setup is an overview of the BIOS Setup Program. The program that allows users to modify the basic system configuration. This type of information is stored in battery-backed CMOS RAM so that it retains the Setup information when the power is turned off.

ENTERING SETUP

Powering ON the computer and pressing immediately will allow you to enter Setup. If you require more advanced BIOS settings, please go to "Advanced BIOS" setting menu. To enter Advanced BIOS setting menu, press "Ctrl+F1" key on the BIOS screen.

CONTROL KEYS

<↑><↓><←><→>	Move to select item
<Enter>	Select Item
<Esc>	Main Menu - Quit and not save changes into CMOS Status Page Setup Menu and Option Page Setup Menu - Exit current page and return to Main Menu
<+/PgUp>	Increase the numeric value or make changes
<-/PgDn>	Decrease the numeric value or make changes
<F1>	General help, only for Status Page Setup Menu and Option Page Setup Menu
<F2>	Item Help
<F3>	Change Language
<F7>	Load Defaults Settings
<F8>	Q-Flash utility
<F9>	System Information
<F10>	Save all the CMOS changes, only for Main Menu

Main Menu

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

Status Page Setup Menu / Option Page Setup Menu

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

The Main Menu (For example: BIOS Ver. : F1)

Once you enter Award BIOS CMOS Setup Utility, the Main Menu (as figure below) will appear on the screen. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software

▶ Standard CMOS Features ▶ Advanced BIOS Features ▶ Integrated Peripherals ▶ Power Management Setup ▶ PnP/PCI Configurations ▶ PC Health Status ▶ MB Intelligent Tweaker(M.I.T.)	- Select Language - Load Default Settings - Set Supervisor Password - Set User Password - Save & Exit Setup - Exit Without Saving
ESC: Quit	F3: Change Language
F8: Q-Flash	F1: General HelpSetup
Time, Date, Hard Disk Type...	



CAUTION

Because BIOS flashing is potentially risky, please do it with caution and avoid inadequate operation that may result in system malfunction.



If you can't find the setting you want, please press "Ctrl+F1" to search the advanced option hidden. Please Load Default Settings in the BIOS when somehow the system works not stable as usual. This action makes the system reset to the default for stability.

- **Standard CMOS Features**

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

- **Advanced BIOS Features**

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

- **Integrated Peripherals**

This setup page includes all onboard peripherals.

- **Power Management Setup**

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

- **PnP/PCI Configuration**

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

- **PC Health Status**

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

- **MB Intelligent Tweaker(M.I.T.)**

This setup page is control CPU clock and frequency ratio.

- **Select Language**

This setup page is select multi language.

- **Load Default Settings**

Load Default Settings indicates the value of the system parameters which the system would be in best performance configuration.

- **Set Supervisor Password**

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

- **Set User Password**

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

- **Save & Exit Setup**

Save CMOS value settings to CMOS and exit setup.

- **Exit Without Saving**

Abandon all CMOS value changes and exit setup.

Standard CMOS Features

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software
Standard CMOS Features

Date (mm:dd:yy)	Wed, Oct 19 2005	Item Help Menu Level▶ Change the day, month, year
Time (hh:mm:ss)	22:31:24	
▶ IDE Primary Master	[None]	<Week> Sun. to Sat.
▶ IDE Primary Slave	[None]	
▶ IDE Secondary Master	[None]	
▶ IDE Secondary Slave	[None]	
Drive A	[1.44M, 3.5"]	<Month> Jan. to Dec.
Drive B	[None]	<Day> 1 to 31 (or maximum allowed in the month)
Floppy 3 Mode Suport	[Disabled]	
Halt On	[All, But Keyboard]	<Year> 1999 to 2098
System BIOS Version	F1	
BIOS Release Date	10/18/2005	
Base Memory	640K	
Extended Memory	127M	
Total Memory	128M	
↑↓→←: Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help F3: Language F7: Loading Default Settings F2: Item help		

Date

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

- ▶▶ Week The week, from Sun. to Sat., determined by the BIOS and is displayed only.
- ▶▶ Month The month, Jan. through Dec.
- ▶▶ Day The day, from 1 to 31 (or the maximum allowed in the month)
- ▶▶ Year The year, from 1999 through 2098

Time

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

IDE Primary Master, Slave / IDE Secondary Master, Slave

- ▶▶ IDE HDD Auto-Detection Press "Enter" to select this option for automatic device detection.
- ▶▶ IDE Primary Master/Slave; IDE Secondary Master/Slave
 IDE devices setup. You can use one of three methods:
 - Auto Allows BIOS to automatically detect IDE devices during POST. (Default value)
 - None Select this if no IDE devices are used and the system will skip the automatic detection step and allow for faster system start up.
 - Manual User can manually input the correct settings.
- ▶▶ Access Mode Use this to set the access mode for the hard drive. The four options are:
 CHS/LBA/Large/Auto (default:Auto)

Hard drive information should be labeled on the outside drive casing. Enter the appropriate option based on this information.

- ▶▶ Cylinder Number of cylinders
- ▶▶ Head Number of heads
- ▶▶ Precomp Write precomp
- ▶▶ Landing Zone Landing zone
- ▶▶ Sector Number of sectors

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

☞ Drive A / Drive B

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

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

☞ Floppy 3 Mode Support (for Japan Area)

- » Disabled Normal Floppy Drive. (Default value)
- » Drive A Drive A is 3 mode Floppy Drive.
- » Drive B Drive B is 3 mode Floppy Drive.
- » Both Drive A & B are 3 mode Floppy Drives.

☞ Halt on

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

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

☞ BIOS Data

The category is display-only which is determined by POST (Power On Self Test) of the BIOS.

» System BIOS Version

Displays the current BIOS version of the motherboard.

» BIOS Release Date

Displays the release date of the current BIOS version.

☞ Memory

The category is display-only which is determined by POST (Power On Self Test) of the BIOS.

» Base Memory

The POST of the BIOS will determine the amount of base (or conventional) memory installed in the system.

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

» Extended Memory

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

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

» Total Memory

This item displays the memory size that used.

Advanced BIOS Features

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software
Advanced BIOS Features

▶ Hard Disk Boot Priority	[Press Enter]	Item Help
First Boot Device	[Floppy]	Menu Level▶
Second Boot Device	[Hard Disk]	
Third Boot Device	[ZIP]	
Boot Other Device	[Enabled]	
Boot Up Floppy Seek	[Enabled]	
Password Check	[Setup]	
CPU Hyper-Threading #	[Enabled]	
Flexible AGP 8X	[Auto]	
Init Display First	[AGP]	
↑↓→←: Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help F3: Language F7: Loading Default Settings F2: Item help		



" # " System will detect automatically and show up when you install the Intel® Pentium® 4 processor with HT Technology.

Hard Disk Boot Priority

Select boot sequence for onboard(or add-on cards) SCSI, RAID, etc.

Use <↑> or <↓> to select a device, then press<+> to move it up, or <-> to move it down the list. Press <ESC> to exit this menu.

First / Second / Third Boot Device

- ▶ Floppy Select your boot device priority by Floppy.
- ▶ LS120 Select your boot device priority by LS120.
- ▶ Hard Disk Select your boot device priority by Hard Disk.
- ▶ CDROM Select your boot device priority by CDROM.
- ▶ ZIP Select your boot device priority by ZIP.
- ▶ USB-FDD Select your boot device priority by USB-FDD.
- ▶ USB-ZIP Select your boot device priority by USB-ZIP.
- ▶ USB-CDROM Select your boot device priority by USB-CDROM.
- ▶ USB-HDD Select your boot device priority by USB-HDD.
- ▶ LAN Select your boot device priority by LAN.
- ▶ Disabled Disable this function.

Boot Other Device

- ▶ Enabled Allows to boot from other device. (Default value)
- ▶ Disabled Disable this function

Boot Up Floppy Seek

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

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

Password Check

- » System The system can not boot and can not access to Setup page will be denied if the correct password is not entered at the prompt.
- » Setup The system will boot, but access to Setup will be denied if the correct password is not entered at the prompt. (Default value)

CPU Hyper-Threading

- » Enabled Enables CPU Hyper Threading Feature. Please note that this feature is only working for operating system with multi processors mode supported. (Default value)
- » Disabled Disables CPU Hyper Threading.

Flexible AGP 8X

- » Auto Automatically set AGP transfer rate according to AGP compatibility and stability. (Default value)
- » 4X Set AGP transfer rate to 4X mode no matter what the AGP transfer rate the card is.

Init Display First

Select the first initiation of monitor or display from AGP or PCI VGA card.

- » AGP Set Init display first to AGP. (Default value)
- » PCI Set Init display first to PCI.

Integrated Peripherals

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software
Integrated Peripherals

IDE1 Conductor Cable	[Auto]	Item Help
IDE2 Conductor Cable	[Auto]	Menu Level▶
On-Chip Primary PCI IDE	[Enabled]	
On-Chip Secondary PCI IDE	[Enabled]	
AC'97 Audio	[Enabled]	
USB Controller	[Enabled]	
USB Legacy Support	[Disabled]	
Onboard LAN device	[Enabled]	
Onboard LAN Boot ROM	[Disabled]	
Onboard Serial Port 1	[3F8/IRQ4]	
Onboard Parallel Port	[378/IRQ7]	
Parallel Port Mode	[ECP]	
ECP Mode Use DMA	[3]	
Game Port Address	[201]	
Midi Port Address	[Disabled]	
x Midi Port IRQ	10	

↑↓→←: Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help
 F3: Language F7: Loading Default Settings F2: Item help

IDE1 Conductor Cable

- ▶ Auto Will be automatically detected by BIOS. (Default value)
- ▶ ATA66/100/133 Set IDE1 Conductor Cable to ATA66/100/133 (Please make sure your IDE device and cable is compatible with ATA66/100/133).
- ▶ ATA33 Set IDE1 Conductor Cable to ATA33 (Please make sure your IDE device and cable is compatible with ATA33).

IDE2 Conductor Cable

- ▶ Auto Will be automatically detected by BIOS. (Default value)
- ▶ ATA66/100/133 Set IDE2 Conductor Cable to ATA66/100/133 (Please make sure your IDE device and cable is compatible with ATA66/100/133).
- ▶ ATA33 Set IDE2 Conductor Cable to ATA33 (Please make sure your IDE device and cable is compatible with ATA33).

On-Chip Primary PCI IDE

- ▶ Enabled Enable onboard 1st channel IDE port. (Default value)
- ▶ Disabled Disable onboard 1st channel IDE port.

On-Chip Secondary PCI IDE

- ▶ Enabled Enable onboard 2nd channel IDE port. (Default value)
- ▶ Disabled Disable onboard 2nd channel IDE port.

AC'97 Audio

- ▶ Enabled Enable onboard AC'97 audio function. (Default value)
- ▶ Disabled Disable this function.

USB Controller

- ▶ Enabled Enable USB Controller. (Default value)
- ▶ Disabled Disable USB Controller.

☞ **USB Legacy Support**

When USB keyboard or mouse is installed, please set at Enabled.

- » Enabled Enable USB keyboard or mouse support.
- » Disabled Disable USB keyboard or mouse support. (Default value)

☞ **Onboard LAN device**

- » Disabled Disable this function.
- » Enabled Enable Onboard Lan Chip device. (Default value)

☞ **Onboard LAN Boot ROM**

This function decide whether to invoke the boot ROM of the onboard LAN chip.

- » Enabled Enable this function.
- » Disabled Disable this function. (Default value)

☞ **Onboard Serial Port 1**

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

☞ **Onboard Parallel port**

- » Disabled Disable onboard LPT port.
- » 378/IRQ7 Enable onboard LPT port and address is 378/IRQ7. (Default value)
- » 278/IRQ5 Enable onboard LPT port and address is 278/IRQ5.
- » 3BC/IRQ7 Enable onboard LPT port and address is 3BC/IRQ7.

☞ **Parallel Port Mode**

- » SPP Using Parallel port as Standard Parallel Port.
- » EPP Using Parallel port as Enhanced Parallel Port.
- » ECP Using Parallel port as Extended Capabilities Port. (Default value)
- » ECP+EPP Using Parallel port as ECP & EPP mode.

☞ **ECP Mode Use DMA**

- » 3 Set ECP Mode Use DMA to 3. (Default value)
- » 1 Set ECP Mode Use DMA to 1.

☞ **Game Port Address**

- » Disabled Disable this function.
- » 201 Enable gameport and set gameport address to 201. (Default value)
- » 209 Enable gameport and set gameport address to 209.

☞ **Midi Port Address**

- » Disabled Disable this function. (Default value)
- » 300 Enable midiport and set midiport address to 300.
- » 330 Enable midiport and set midiport address to 330.

☞ **Midi Port IRQ**

- » 5 Set Midi Port IRQ to 5.
- » 10 Set Midi Port IRQ to 10. (Default value)

Power Management Setup

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software
Power Management Setup

Power Management Setup			
ACPI Suspend Type	[S1(POS)]	Item Help	
Soft-Off by PWR_BTN	[Off]	Menu Level▶	
System After AC Back	[Off]		
IRQ [3-7, 9-15], NMI	[Enabled]	[S1]	
ModemRingOn	[Enabled]	Set suspend type to	
PME Event Wake Up	[Enabled]	Power On Suspend under	
Power On by Keyboard	[Disabled]	ACPI OS	
Power On by Mouse	[Disabled]		
Resume by Alarm	[Disabled]	[S3]	
x Month Alarm	NA	Set suspend type to	
x Day (of Month)	Everyday	Suspend to RAM under	
x Time (hh:mm:ss)	0 : 0 : 0	ACPI OS	
Power LED in S1 state	[Blinking]		
↑↓↔←: Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help F3: Language F7: Loading Default Settings F2: Item help			

ACPI Suspend Type

- ▶ S1(POS) Set ACPI suspend type to S1. (Default value)
- ▶ S3(STR) Set ACPI suspend type to S3.

☞ **Soft-Off by PWR BTTN**

- | | |
|------------|--|
| ▶▶ Off | The user press the power button once, he can turn off the system.
(Default value) |
| ▶▶ Suspend | The user press the power button once, then he can enter suspend mode. |

System After AC Back

- | | |
|--------------|---|
| ►► Laststate | When AC-power back to the system, the system will return to the Last state before AC-power off. |
| ►► Off | When AC-power back to the system, the system will be in "Off" state. (Default value) |
| ►► On | When AC-power back to the system, the system will be in "On" state. |

👉 **IRQ [3-7, 9-15], NMI**

When IRQ [3-7, 9-15] or NMI triggered, the suspend timer will be reloaded to prevent system gets into green mode.

- | | |
|-------------|---|
| ▶▶ Disabled | Don't monitor IRQ [3-7, 9-15] or NMI. |
| ▶▶ Enabled | Monitor IRQ [3-7, 9-15] or NMI. (Default value) |

 ModemRingOn

- | | |
|-------------|--|
| ▶▶ Disabled | Disable this function. |
| ▶▶ Enabled | Enable Modem Ring on function. (Default value) |

PME Event Wake Up

- | | |
|-------------|--|
| ▶▶ Disabled | Disable this function. |
| ▶▶ Enabled | Enable PME as wake up event. (Default value) |

☞ **Power On by Keyboard**

- » Any Key Set keyboard power on by any key.
- » Password Enter from 1 to 8 characters to set the keyboard power on password.
- » Disabled Disabled this function. (Default value)

☞ **Power On by Mouse**

- » Enabled Power on system by move or click the mouse.
- » Disabled Disable this function. (Default value)

☞ **Resume by Alarm**

You can set "Resume by Alarm" item to enabled and key in Date/time to power on system.

- » Disabled Disable this function. (Default value)
- » Enabled Enable alarm function to POWER ON system.

If Resume by Alarm is Enabled.

Month Alarm : NA, 1~12

Day (of Month) : Everyday, 1~31

Time (hh: mm: ss) : (0~23) : (0~59) : (0~59)

☞ **Power LED in S1 state**

- » Blinking In standby mode(S1), power LED will blink. (Default value)
- » Dual/OFF In standby mode(S1):
 - a. If use single color LED, power LED will turn off.
 - b. If use dual color LED, power LED will turn to another color.

PnP/PCI Configurations

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software
PnP/PCI Configurations

PCI 1 IRQ Assignment	[Auto]	Item Help
PCI 2 IRQ Assignment	[Auto]	Menu Level▶
PCI 3 IRQ Assignment	[Auto]	
↑↓→←: Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help F3: Language F7: Loading Default Settings F2: Item help		

-  **PCI 1 IRQ Assignment**
 ▶ Auto Auto assign IRQ to PCI 1. (Default value)
 ▶ 3,4,5,7,9,10,11,12,14,15 Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 1.
-  **PCI 2 IRQ Assignment**
 ▶ Auto Auto assign IRQ to PCI 2. (Default value)
 ▶ 3,4,5,7,9,10,11,12,14,15 Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 2.
-  **PCI 3 IRQ Assignment**
 ▶ Auto Auto assign IRQ to PCI 3. (Default value)
 ▶ 3,4,5,7,9,10,11,12,14,15 Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 3.

PC Health Status

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software
PC Health Status

Reset Case Open Status	[Disabled]	Item Help
Case Opened	Yes	Menu Level▶
Vcore	1.490V	
VCC18	1.840V	
+3.3V	3.232V	
+5V	4.999V	
+12V	11.541V	
Current System Temperature	45°C	
Current CPU Temperature	43°C	
Current CPU FAN Speed	2766 RPM	
Current SYSTEM FAN Speed	0 RPM	
CPU FAN Control	[Enabled]	
SYS FAN Control	[Enabled]	
↑↓→←: Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help F3: Language F7: Loading Default Settings F2: Item help		

Reset Case Open Status

- ▶ Disabled Don't reset case open status. (Default value)
- ▶ Enabled Clear case open status at next boot.

Case Opened

If the case is closed, "Case Opened" will show "No".

If the case have been opened, "Case Opened" will show "Yes".

If you want to reset "Case Opened" value, set "Reset Case Open Status" to "Enabled" and save CMOS, your computer will restart.

Current Voltage (V) Vcore / VCC18 / +3.3V / +5V / +12V

- ▶ Detect system's voltage status automatically.

Current System/CPU Temperature

- ▶ Detect system/CPU temperature automatically.

Current CPU/SYSTEM FAN Speed (RPM)

- ▶ Detect CPU/system fan speed status automatically.

CPU/SYS FAN Control

CPU/System Smart FAN Control function.

- ▶ Enabled Enable smart fan control function. (Default value)
- ▶ Disabled Disable this function.

MB Intelligent Tweaker(M.I.T.)

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software
MB Intelligent Tweaker(M.I.T.)

Linear Frequency Control	[Disabled]	Item Help
x CPU Clock (MHz)	100	Menu Level▶
x DRAM Clock (MHz)	AUTO	
AGP/PCI Clock Control	[AUTO]	
x AGP Clock (MHz)	66	
x PCI Clock (MHz)	33	
↑↓→←: Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help F3: Language F7: Loading Default Settings F2: Item help		



CAUTION

Incorrect using these features may cause your system broken. For power end-user use only.

Linear Frequency Control

- ▶ Disabled Disable this function. (Default value)
- ▶ Enabled Enable this function.

CPU Clock (MHz)

- ▶ 100MHz ~ 355MHz Set CPU Host Clock from 100MHz to 355MHz.
- If you use a 400MHz FSB Pentium 4 processor, please set "CPU Clock" to **100MHz**.
- If you use a 533 MHz FSB Pentium 4 processor, please set "CPU Clock" to **133MHz**.
- If you use an 800MHz FSB Pentium 4 processor, please set "CPU Clock" to **200MHz**.

DRAM Clock (MHz)

- ▶ Please set DRAM Clock according to your requirement.
- If you use the DDR266 DRAM module, please set "DRAM Clock(MHz)" to **Auto** or **266**.
- If you use the DDR333 DRAM module, please set "DRAM Clock(MHz)" to **Auto** or **333**.
- If you use the DDR400 DRAM module, please set "DRAM Clock(MHz)" to **Auto** or **400**.

AGP/PCI Clock Control

- ▶ AUTO Set AGP/PCI Clock Control to AUTO. (Default value)
- ▶ Manual Set AGP/PCI Clock Control to Manual.

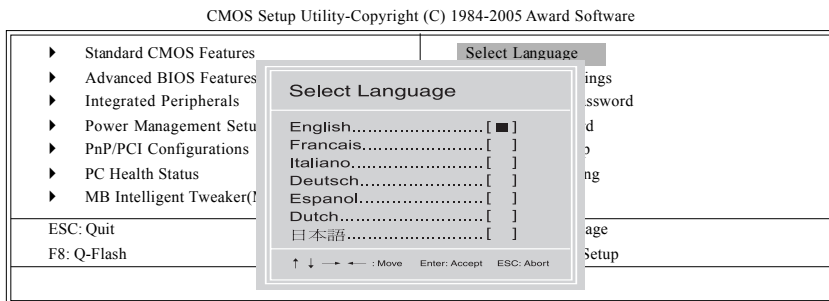
AGP Clock (MHz)

- ▶ Please set AGP Clock according to your requirement.

PCI Clock (MHz)

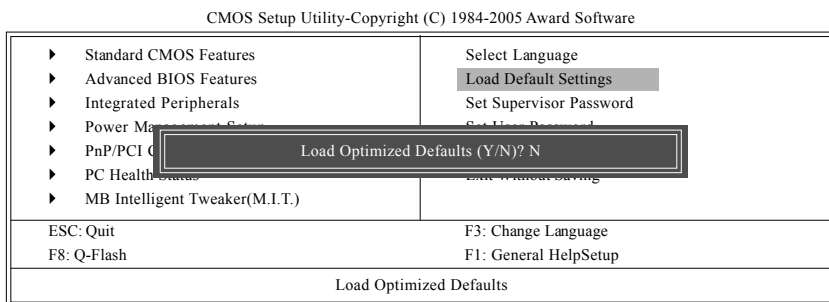
- ▶ This value is displayed only and is dependent on the **AGP Clock** setting.

Select Language



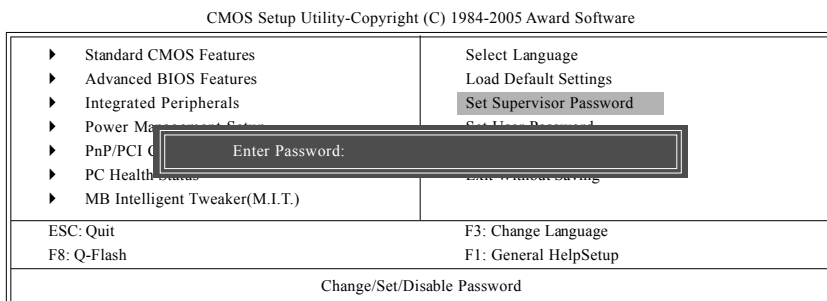
Multi language supports 7 languages. There are English, French, Italian, German, Spanish, Dutch and Japanese.

Load Default Settings



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

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.

Type the password, up to eight characters, and press <Enter>. You will be asked to confirm the password. Type the password again and press <Enter>. You may also press <Esc> to abort the selection and not enter a password.

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

The BIOS Setup program allows you to specify two separate passwords:

SUPERVISOR PASSWORD and a USER PASSWORD. When disabled, anyone may access all BIOS Setup program function. When enabled, the Supervisor password is required for entering the BIOS Setup program and having full configuration fields, the User password is required to access only basic items.

If you select "System" at "Password Check" in Advance BIOS Features Menu, you will be prompted for the password every time the system is rebooted or any time you try to enter Setup Menu.

If you select "Setup" at "Password Check" in Advance BIOS Features Menu, you will be prompted only when you try to enter Setup.

Save & Exit Setup

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software

▶ Standard CMOS Features ▶ Advanced BIOS Features ▶ Integrated Peripherals ▶ Power Management Setup ▶ PnP/PCI Configurations ▶ PC Health Status ▶ MB Intelligent Tweaker(M.I.T.)	- Select Language - Load Default Settings - Set Supervisor Password - Get Help/Reset - Exit Without Saving
SAVE to CMOS and EXIT (Y/N)? Y	
ESC: Quit	
F3: Change Language	
F8: Q-Flash	
F1: General Help/Setup	
Save Data to CMOS	

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

Type "N" will return to Setup Utility.

Exit Without Saving

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software

▶ Standard CMOS Features ▶ Advanced BIOS Features ▶ Integrated Peripherals ▶ Power Management Setup ▶ PnP/PCI Configurations ▶ PC Health Status ▶ MB Intelligent Tweaker(M.I.T.)	- Select Language - Load Default Settings - Set Supervisor Password - Get Help/Reset - Exit Without Saving
Quit Without Saving (Y/N)? N	
ESC: Quit	
F3: Change Language	
F8: Q-Flash	
F1: General Help/Setup	
Abandon all Data	

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

Type "N" will return to Setup Utility.

Chapter 3 Install Drivers

Install Drivers

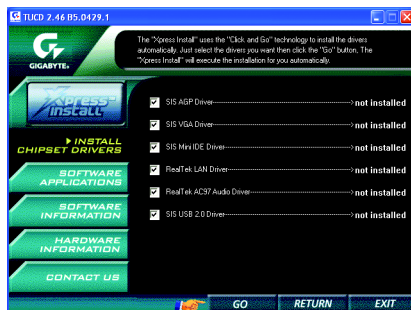


Pictures below are shown in Windows XP

Insert the driver CD-title that came with your motherboard into your CD-ROM drive, the driver CD-title will auto start and show the installation guide. If not, please double click the CD-ROM device icon in "My computer", and execute the setup.exe.

INSTALL CHIPSET DRIVER

After insert the driver CD, "Xpress Install" will scan automatically the system and then list all the drivers that recommended to install. The "Xpress Install" uses the "Click and Go" technology to install the drivers automatically. Just select the drivers you want then click the "GO" button. The "Xpress Install" will execute the installation for you automatically.

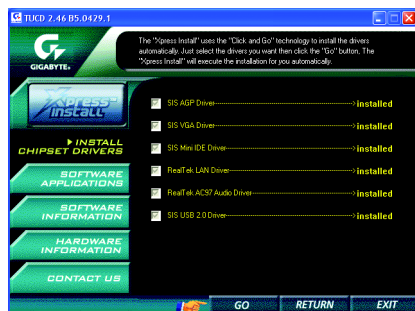


Some device drivers will restart your system automatically. After restarting your system the "Xpress Install" will continue to install other drivers.

System will reboot automatically after install the drivers, afterward you can install others application.



For USB2.0 driver support under Windows XP operating system, please use Windows Service Pack. After install Windows Service Pack, it will show a question mark "?" in "Universal Serial Bus controller" under "Device Manager". Please remove the question mark and restart the system (System will auto-detect the right USB2.0 driver).



Driver installation finished!

You have to reboot system!

Item Description

- SIS AGP Driver
AGP interface driver for SiS series chipset.
- SIS VGA Driver
VGA driver for VGA integrated SiS 661FX chipset.
- SIS Mini IDE Driver
SiS IDE controller driver.
- RealTek LAN Driver
Realtek Lan driver.
- RealTek AC97 Audio Driver
Audio driver for Realtek AC97 codec chipset.
- SIS USB 2.0 Driver
USB2.0 driver for SiS series chipset.



Contact Us

● Taiwan (Headquarters)

GIGA-BYTE TECHNOLOGY CO., LTD.

Address: No.6, Bau Chiang Road, Hsin-Tien, Taipei 231, Taiwan

TEL: +886-2-8912-4888

FAX: +886-2-8912-4003

Tech. Support :

<http://tw.giga-byte.com/TechSupport/ServiceCenter.htm>

Non-Tech. Support(Sales/Marketing) :

<http://ggts.gigabyte.com.tw/nontech.asp>

WEB address (English): <http://www.gigabyte.com.tw>

WEB address (Chinese): <http://chinese.giga-byte.com>

● U.S.A.

G.B.T. INC.

TEL: +1-626-854-9338

FAX: +1-626-854-9339

Tech. Support :

<http://tw.giga-byte.com/TechSupport/ServiceCenter.htm>

Non-Tech. Support(Sales/Marketing) :

<http://ggts.gigabyte.com.tw/nontech.asp>

WEB address : <http://www.giga-byte.com>

● Germany

G.B.T. TECHNOLOGY TRADING GMBH

TEL: +49-40-2533040 (Sales)

+49-1803-428468 (Tech.)

FAX: +49-40-25492343 (Sales)

+49-1803-428329 (Tech.)

Tech. Support :

<http://tw.giga-byte.com/TechSupport/ServiceCenter.htm>

Non-Tech. Support(Sales/Marketing) :

<http://ggts.gigabyte.com.tw/nontech.asp>

WEB address : <http://www.gigabyte.de>

● Japan

NIPPON GIGA-BYTE CORPORATION

WEB address : <http://www.gigabyte.co.jp>

● Singapore

GIGA-BYTE SINGAPORE PTE. LTD.

Tech. Support :

<http://tw.giga-byte.com/TechSupport/ServiceCenter.htm>

Non-Tech. Support(Sales/Marketing) :

<http://ggts.gigabyte.com.tw/nontech.asp>

WEB address: <http://www.gigabyte.com.sg>

● U.K.

G.B.T. TECH. CO., LTD.

Tech. Support :

<http://tw.giga-byte.com/TechSupport/ServiceCenter.htm>

Non-Tech. Support(Sales/Marketing) :

<http://ggts.gigabyte.com.tw/nontech.asp>

WEB address : <http://uk.giga-byte.com>

● The Netherlands

GIGA-BYTE TECHNOLOGY B.V.

TEL: +31-40-290-2088

NL Tech.Support: 0900-GIGABYTE (0900-44422983)

BE Tech.Support: 0900-84034

FAX: +31-40-290-2089

Tech. Support :

<http://tw.giga-byte.com/TechSupport/ServiceCenter.htm>

Non-Tech. Support(Sales/Marketing) :

<http://ggts.gigabyte.com.tw/nontech.asp>

WEB address : <http://www.giga-byte.nl>

• China

NINGBO G.B.T. TECH. TRADING CO., LTD.

Tech. Support :

<http://tw.giga-byte.com/TechSupport/ServiceCenter.htm>

Non-Tech. Support(Sales/Marketing) :

<http://ggts.gigabyte.com.tw/nontech.asp>

WEB address : <http://www.gigabyte.com.cn>

Shanghai

TEL: +86-021-63410999

FAX: +86-021-63410100

Beijing

TEL: +86-10-62102838

FAX: +86-10-62102848

Wuhan

TEL: +86-27-87851061

FAX: +86-27-87851330

GuangZhou

TEL: +86-20-87586074

FAX: +86-20-85517843

Chengdu

TEL: +86-28-85236930

FAX: +86-28-85256822

Xian

TEL: +86-29-85531943

FAX: +86-29-85539821

Shenyang

TEL: +86-24-23960918

FAX: +86-24-23960918-809

• Australia

GIGABYTE TECHNOLOGY PTY. LTD.

Tech. Support :

<http://tw.giga-byte.com/TechSupport/ServiceCenter.htm>

Non-Tech. Support(Sales/Marketing) :

<http://ggts.gigabyte.com.tw/nontech.asp>

WEB address : <http://www.giga-byte.com.au>

• France

GIGABYTE TECHNOLOGY FRANCE S.A.R.L.

Tech. Support :

<http://tw.giga-byte.com/TechSupport/ServiceCenter.htm>

Non-Tech. Support(Sales/Marketing) :

<http://ggts.gigabyte.com.tw/nontech.asp>

WEB address : <http://www.gigabyte.fr>

• Russia

Moscow Representative Office Of GIGA-BYTE Technology Co., Ltd.

Tech. Support :

<http://tw.giga-byte.com/TechSupport/ServiceCenter.htm>

Non-Tech. Support(Sales/Marketing) :

<http://ggts.gigabyte.com.tw/nontech.asp>

WEB address : <http://www.gigabyte.ru>

• Poland

Office of GIGA-BYTE TECHNOLOGY Co., Ltd. in POLAND

Tech. Support :

<http://tw.giga-byte.com/TechSupport/ServiceCenter.htm>

Non-Tech. Support(Sales/Marketing) :

<http://ggts.gigabyte.com.tw/nontech.asp>

WEB address : <http://www.gigabyte.pl>

• Serbia & Montenegro

Representative Office Of GIGA-BYTE Technology Co., Ltd. in SERBIA & MONTENEGRO

Tech. Support :

<http://tw.giga-byte.com/TechSupport/ServiceCenter.htm>

Non-Tech. Support(Sales/Marketing) :

<http://ggts.gigabyte.com.tw/nontech.asp>

WEB address: <http://www.gigabyte.co.yu>

• Czech Republic

Representative Office Of GIGA-BYTE Technology Co., Ltd. in CZECH REPUBLIC

Tech. Support :

<http://tw.giga-byte.com/TechSupport/ServiceCenter.htm>

Non-Tech. Support(Sales/Marketing) :

<http://ggts.gigabyte.com.tw/nontech.asp>

WEB address: <http://www.gigabyte.cz>

• Romania

Representative Office Of GIGA-BYTE Technology Co., Ltd. in Romania

Tech. Support :

<http://tw.giga-byte.com/TechSupport/ServiceCenter.htm>

Non-Tech. Support(Sales/Marketing) :

<http://ggts.gigabyte.com.tw/nontech.asp>

WEB address: <http://www.gigabyte.com.ro>