

- The author assumes no responsibility for any errors or omissions that may appear in this document nor does the author make a commitment to up date the information contained herein.
- Third-party brands and names are the property of their respective owners.
- 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- Due to rapid change in technology, some of the specifications might be out of date before publication of this booklet.
- Before you install PCI cards, please remove the Dual BIOS label from PCI slots if there is one.



- WARNING: Never run the processor without the neatsink properly and firmly attached. PERMANENT DAMAGE WILL RESULT!
- Mise en garde : Ne faites jamais tourner le processeur sans que le dissipareur de chaleur soit fix correctement et fermement. UN DOMMAGE PERMANENT EN RÉSULTERA !
- Achtung: Der Prozessor darf nur in Betrieb zenommen werden, wenn der W rmeableiter oranungsgem p und fest angebracht ist DIES HAT EINEN PERMANENTEN SCHADEN ZUR FOLGE!
- Advertencia: Nunca haga funcionar el procesador sin el disipador de calor instalado correcta y firmemente, ;SE PRODUCIRÁ UN DAÑO PERMANENTE!
- Aviso: Nunca execute o processador sem o dissipador de calor estar adequado e firmemente conectado. O RESULTADO SERÁ UM DANO PERMANENTE:
- **曾书。 将数曲板字面地安装到处理器上之前,不要运行处理器。过热将未以现坏处理器**[
- 著合: 將款款每半面地交流到處理設上之前,不要運行處理區。過將將水道與褒處理區!
- 경고: 최도한고부 성격로 두 다다리 부장기관가 않은 것 프로영영부 가운지관가 나십시오. 영국적 가장이 발생합니다!
- 響告: 未久的な損傷を防ぐため、ヒートシンクを正しくしっかりと取り付けるまでは、プロセー ッサを動作させないようにしてください。

Declaration of Conformity We, Manufacturer/Importer (full address) G.B.T. Technology Träding GMbH Ausschlager Weg 41, 1F, 20537 Hamburg, Germany

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

Mother Board

GA-7DPXDW is in conformity with (reference to the specification under which conformity is declared) in accordance with 89/336 EEC-EMC Directive

□ EN 55011 Limits and methods of measurement □ EN 61000-3-2* Disturbances in supply systems cause of radio disturbance characteristics of by household appliances and similar 区 EN 60555-2 industrial, scientific and medical (ISM electrical equipment "Harmonics" high frequency equipment Limits and methods of measurement □ EN 61000-3-3* Disturbances in supply systems cause □ EN 55013 of radio disturbance characteristics of by household appliances and similar 区 EN 60555-3 electrical equipment "Voltage fluctuations" broadcast receivers and associated equipment □ EN 55014 Limits and methods of measurement Generic emission standard Part 1: ⊠ EN 50081-1 of radio disturbance characteristics of household electrical appliances, Residual commercial and light industry portable tools and similar electrical 区 EN 50082-1 Generic immunity standard Part 1: apparatus Residual commercial and light industry □ EN 55015 Limits and methods of measurement □ EN 55081-2 Generic emission standard Part 2: of radio disturbance characteristics of Industrial environment fluorescent lamps and luminaries Immunity from radio interference of □ EN 55020 □ EN 55082-2 Generic emission standard Part 2: broadcast receivers and associated Industrial environment equipment Limits and methods of measurement ENV 55104 IZ EN 55022 Immunity requirements for household of radio disturbance characteristics of appliances tools and similar apparatus information technology equipment DIN VDE 0855 Cabled distribution systems; Equipment EN50091-2 EMC requirements for uninterruptible 🗆 part 10 for receiving and/or distribution from power systems (UPS) 🗆 part 12 sound and television signals (EC conformity marking) ⊠ CE 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 □ EN 60950 electronic and related apparatus for household and similar general use

□ EN 50091-1

Manufacturer/Importer

Date : Mar. 8, 2002

Signature: Timmy Huang Name: Timmy Huang

(Stamp)

Safety of household and similar

electrical appliances

□ EN 60335

DECLARATION OF CONFORMITY			
Per FCC Part 2 Section 2.1077(a)			
FC			
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: GA-7DPXDW			
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 inference received, including that may cause undesired operation.			
Representative Person's Name: <u>ERIC LU</u>			
Signature: <u>Eric Lu</u>			
Date: Mar. 8, 2002			

GA-7DPXDW AMD Socket A Dual Processor Motherboard

USER'S MANUAL

AMD Athlon[®] / Athlon[®] XP / Duron[®] Socket A Dual Processor Motherboard Rev. 1002 12ME-7DPXDW-1002

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Item Checklist

- ☑ The GA-7DPXDW motherboard
- ☑ IDE cable x 1/ Floppy cable x 1
- ☑ CD for motherboard driver & utility
- GA-7DPXDW user's manual



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.
- 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.
- 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 themotherboard has mounting holes, but they don't line up with the hdes 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.



Introduction

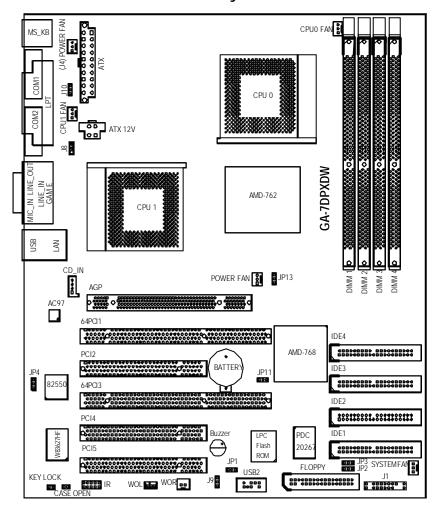
Chapter 1 Introduction Summary of Features

Form Factor	• 30.4cm x 26.9cm ATX size form factor, 6 layers PCB.
Motherboard	GA-7DPXDW Motherboard
CPU	Socket A Dual high performance Athlon MP System Processor
	AMD AthlonTM MP/AthlonTM XP/ DuronTM (K7)
	128K L1 & 256K/64K L2 cache on die
	200/266MHz FSB and DDR bus speeds
	Supports 1.4GHz and faster
Chipset	● AMD-760MPX TM Chipsets is a highly intergrated system logic
	solution that delivers enhanced performance for the AMD Athlon™
	processor and other AMD Athlon processor system bus compatible
	processors.
	AMD-762 Memory/AGP/PCI System Controller
	AMD-768 Integrated Peripheral Controller
Memory	• 4 184-pin DDR sockets
	 Supports Registered DDR DRAM PC1600/PC2100
	 Supports up to 4.0GB DDR (Max)
	 Supports only 2.5V DDR DIMM
	Registered DDR only
I/O Control	• W83627HF
Slots	1 AGP Pro slot supports 1X/2X/4X mode & AGP 2.0 Compliant
	Primary PCI 2.2 Compliant 66MHz / 64 bit PCI Bus
	 Secondary PCI 2.2 Compliant 33MHz / 32 bit PCI Bus
	• 2 x 64 bit / 66 MHz PCI slot + 3 x 32 bit / 33MHz PCI slot
On-Board IDE	 2 IDE bus master (ATA66/100) IDE ports for up to 4
(IDE3 & IDE4)	ATAPI devices
	 Supports PIO mode3,4 (ATA66/100) IDE & ATAPI
	CD-ROM
On-Board Peripherals	 1 Floppy port supports 2 FDD with 360K, 720K, 1.2M, 1.44M
	and 2.88M bytes.
	1 Parallel port supports Normal/EPP/ECP mode
	to be continued

	 2 Serial port (COM1 & COM2)
	 4 USB ports (Rear USB x 2, Front USB x 2)
	 1 IrDA connector for IR/CIR
Hardware Monitor	 CPU/System Fan Revolution detect
	 CPU/System temperature detect
	 System Voltage Detect
	 Power Management Support
On-Board Sound	AC97 CODEC
	 Line In/Line Out/Mic In/CD In/Game Port
On-Board Promise RAID	 Promise IDE RAID support RAID 0, RAID 1, and RAID 0+1
(IDE1 & IDE2)	
On-Board LAN	Intel 82550 Chipset
	Onboard LAN 10/100 Mbps support
PS/2 Connector	 PS/2 Keyboard interface and PS/2 Mouse interace
BIOS	 Licensed AWARD BIOS, 2M bit Flash ROM
Additional Features	Wake on LAN
	Wake on RING
	SMBus Support
	IOAPIC Support
	Serial IRQ Support
	• AC Recovery

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, SDRAM, Cards... .etc.



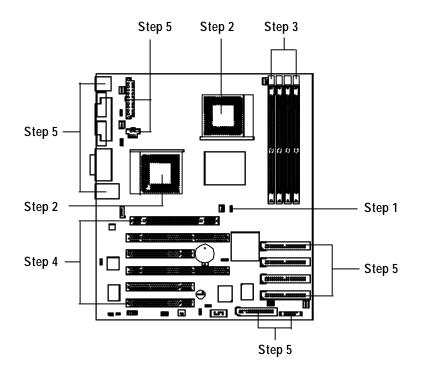


GA-7DPXDW Motherboard Layout

Chapter 2 Hardware Installation Process

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

- Step 1- Set system jumper (JP13)
- Step 2- Install the Central Processing Unit (CPU)
- Step 3- Install memory modules
- Step 4- Install expansion cards
- Step 5- Connect ribbon cables, cabinet wires, and power supply
- Step 6- Setup BIOS software
- Step 7- Install supporting software tools

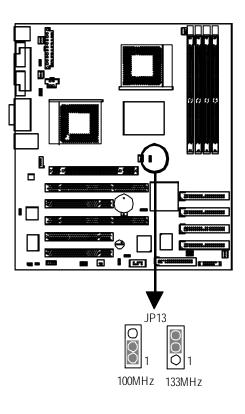


Hardware Installation Process

Step 1: Install the Central Processing Unit (CPU)

Step1-1: CPU Speed Setup

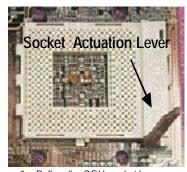
The system bus frequency can be switched at 100/133MHz by adjusting system jumper (JP13). (The internal frequency depend on CPU.)



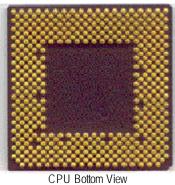
Step1-2: CPU Installation

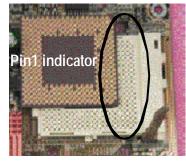


CPU Top View



1. Pull up the CPU socket lever and up to 90-degree angle.





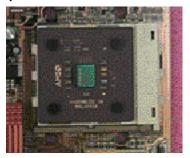
2. Locate Pin 1 in the socket and look for a (golden) cut edge on the CPU upper corner. Then insert the CPU into the socket.

- Please make sure the CPU type is supported by the motherboard.
- Figure 1 of the the CPU socket Pin 1 and CPU cut edge well, it will cause improper installation. Please change the insert orientation.

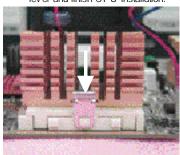


Hardware Installation Process

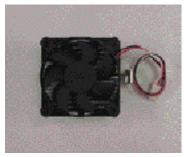
Step1-3:CPU Heat Sink Installation



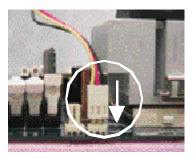
1. Press down the CPU socket lever and finish CPU installation.



 Fasten the heatsink supporting-base onto the CPU socket on the mainboard.



2. Use qualified fan approved by AMD.



- Make sure the CPU fan is plugged to the CPU fan connector, than install complete.
- Please use AMD approved cooling fan.
- ●[™] We recommend you to apply the thermal paste to provide better heat conduction between your CPU and heatsink.
- ●[™] Make sure the CPU fan power cable is plugged in to the CPU fan connector, this completes the installation.
- Please refer to CPU heat sink user's manual for more detail installation procedure.



Step 2: Install memory modules

The motherboard has 4 dual inline memory module (DIMM) sockets. TheBIOS will automatically detects memory type and size. To install the memory module, just push it vertically into the DIMM Slot.

The DIMM module can only fit in one direction due to the notch. Memory size can vary between sockets.

Total Memory	Sizes	With	Registered	DDR DIMM

,	0			
Devices used on DIMM	1 DIMMx64/x72	2 DIMMsx64/x72	3 DIMMsx64/x72	4 DIMMsx64/x72
64 Mbit (4Mx4x4 banks)	256 MBytes	512 MBytes	768 MBytes	1 GBytes
64 Mbit (2Mx8x4 banks)	128 MBytes	256 MBytes	384 MBytes	512 MBytes
64 Mbit (1Mx16x4 banks)	64 MBytes	128 MBytes	192 MBytes	256 MBytes
128 Mbit(8Mx4x4 banks)	512 MBytes	1 GBytes	1.5 GBytes	2 GBytes
128 Mbit(4Mx8x4 banks)	256 MBytes	512 MBytes	768 MBytes	1 GBytes
128 Mbit(2Mx16x4 banks)	128 MBytes	256 MBytes	384 MBytes	512 MBytes
256 Mbit(16Mx4x4 banks)	1 GBytes	2 GBytes	3 GBytes	4 GBytes
256 Mbit(8Mx8x4 banks)	512 MBytes	1 GBytes	1.5 GBytes	2 GBytes
256 Mbit(4Mx16x4 banks)	256 MBytes	512 MBytes	768 MBytes	1 GBytes
512 Mbit(32Mx4x4 banks)	2 GBytes	4 GBytes	4 GBytes	4 GBytes
512 Mbit(16Mx8x4 banks)	1 GBytes	2 GBytes	3 GBytes	4 GBytes
512 Mbit(8Mx16x4 banks)	512 MBytes	1 GBytes	1.5 GBytes	2 GBytes

Hardware Installation Process





- The DIMM slot has a notch, so the DIMM memory module can only fit in one direction.
- Insert the DIMM memory module vertically into the DIMM slot. Then push it down.
- Close the plastic clip at both edges of theDIMM slots to lock the DIMM module.
- ♦[™] Reverse the installation steps when you wish to remove the DIMM module.

DDR Introduction

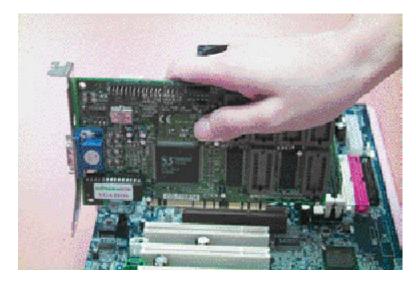
Established on the existing SDRAM industry infrastructure, DDR (Double Data Rate) memory is a high performance and cost-effective solution that allows easy adoption for memory vendors, OEMs and system integrators.

DDR memory is a sensible evolutionary solution for the PC industry that builds on the existing SDRAM infrastructure, yet makes awesome advances in solving the system performance bottleneck by doubling the memory bandwidth. DDR SDRAM will offer a superior solution and migration path from existing SDRAM designs due to its availability, pricing and overall market support. PC2100 DDR memory (DDR266) doubles the data rate through reading and writing at both the rising and falling edge of the clock, achieving data bandwidth 2X greater than PC133 when running with the same DRAM clock frequency. With peak bandwidth of 2.1GB per second, DDR memory enables system OEMs to build high performance and low latency DRAM subsystems that are suitable for servers, workstations, high-end PC 's and value desktop SMA systems. With a core voltage of only 2.5 Volts compared to conventional SDRAM's 3.3 volts, DDR memory is a compelling solution for small form factor desktops and notebook applications.



Step 3: Install expansion cards

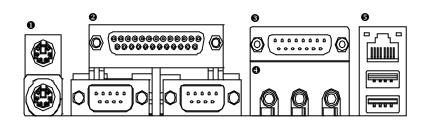
- 1. Read the related expansion card's instruction document before install the expansion card into the computer.
- 2. Remove your computer's chassis cover, screws and slot bracket from the computer.
- 3. Press the expansion card firmly into expansion slot in motherboard.
- 4. Be sure the metal contacts on the card are indeed seated in the slot.
- 5. Replace the screw to secure the slot bracket of the expansion card.
- 6. Replace your computer's chassis cover.
- 7. Power on the computer, if necessary, setup BIOS utility of expansion card from BIOS.
- 8. Install related driver from the operating system.



Hardware Installation Process

Step 4: Connect ribbon cables, cabinet wires, and power supply

Step4-1:I/O Back Panel Introduction



• PS/2 Keyboard and PS/2 Mouse Connector

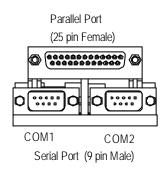


(6 pin Female) PS/2 Keyboard Connector (6 pin Female)

PS/2 Mouse Connector

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

Parallel Port , Serial Ports (COM1 / COM2)



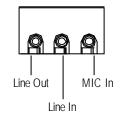
This connector supports 2 standard COM ports ,1 Parallel port. Device like printer can be con nected to Parallel port; mouse and modem etc can be connected to Serial ports.

Game /MIDI Ports

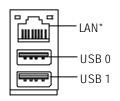


Joystick/ MIDI (15 pin Female)

Audio Connectors



USB & LAN Connector



After install onboard audio driver, you may

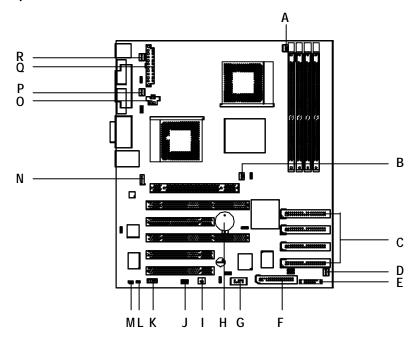
> This connector supports joy stick, MIDI keyboard

and other relate audio devices.

connect speaker to Line Out jack, micro phone to MIC Injack. Device like CD-ROM, walkman etc can be connected to Line-In jack.

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 astandard USB interface. Also make sure yourOS (Win 95with USB supplement, Win98, Windows 2000, Windows ME, Win NT with SP 6) 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.

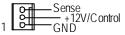




Step4-2: Connectors Introduction

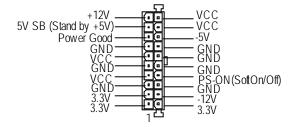
A) CPU FAN	J) WOL
B) (J2) POWER FAN	K) IR
C) IDE1~IDE4	L) CASE OPEN
D) SYSTEM FAN	M) KEY LOCK
E) J1	N) CD IN
F) FLOPPY	O) ATX 12V
G) USB2	P) CPU1 FAN
H) BATTERY	Q) ATX
I) WOR	R) (J4) POWER FAN

A / B / D / P / R) CPU_FAN / POWER_FAN / SYSTEM_FAN / CPU1_FAN / POWER_FAN



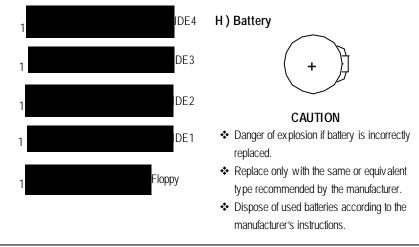
> The CPU fan connector supports Max. current up to 600 mA.

Q) 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.

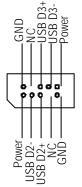
C/F) IDE1/IDE2/IDE3/IDE4/FLOPPY (IDE1 & IDE2 supports Promise IDE)



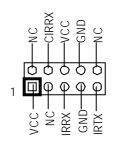


Hardware Installation Process

G) USB2



Be careful with the polarity of the front panel USB connector. Check the pin assignment while you connect the front panel USB cable. Please contact your nearest dealer for optional front panel USB cable.

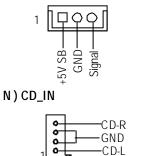


Make sure the pin 1 on the IR device is aling with pin one the connector. To enable the IR/CIR function on the board, you are required to purchase an option IR/ CIR module. For detail information please contact your autherized Giga-Byte distributor.

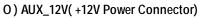
To use IR function only, please connect IR module to Pin1 to Pin5.

L) CASE_OPEN

K)IR



J) WOL (Wake On LAN)





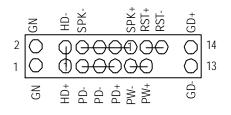


```
H) WOR (Wake On RING)
```



- This connector (ATX +12V) is used only for CPU Core Voltage.
- 23

E) J1: F_PANEL (2x11 pins jumper)

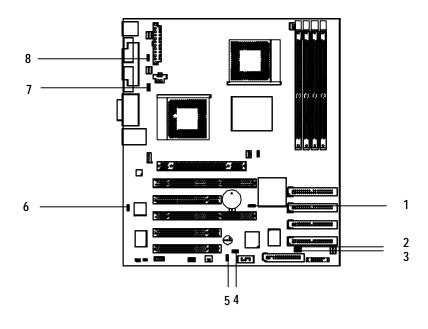


HD (IDE Hard Disk Active LED)	Pin 1: LED anode(+)
	Pin 2: LED cathode(-)
SPK (Speaker Connector)	Pin 1: VCC(+)
	Pin 2- Pin 3: NC
	Pin 4: Data(-)
RST (Reset Switch)	Open: Normal Operation
	Close: Reset Hardware System
PD+/PD-/PD-(Power LED)	Pin 1: LED anode(+)
	Pin 2: LED cathode(-)
	Pin 3: LED cathode(-)
PW (Soft Power Connector)	Open: Normal Operation
	Close: Power On/Off
GN (Green Switch)	Open: Normal Operation
	Close: Entering Green Mode
GD(Green LED)	Pin1: LED anode (+)
	Pin2: LED cathode(-)

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

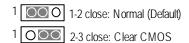
Hardware Installation Process



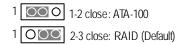


1) JP11	5) J9
2) JP3	6) JP4
3) JP2	7) J8
4) JP1	8) J10

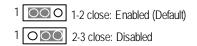
1) JP11: Clear CMOS



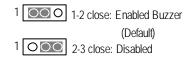
2) JP3: Promise Mode



3) JP2: Promise Function



4) JP1: Buzzer Function



5) J9: USB2 Wakeup



1-2 close: Enabled



2-3 close: Disabled(Default)

6) JP4: Onboard LAN



1-2 close: Enabled (Default) 2-3 close: Disabled

7) J8: USB1 wakeup



1-2 close: Enabled 2-3 close: Disabled(Default)

BIOS Setup

Chapter 3 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

Power ON the computer and press immediately will allow you to enter Setup.

CONTROL KEYS

< ^ >	Move to previous item		
< \P>	Move to next item		
< ← >	Move to the item in the left hand		
<→>	Move to the item in the right hand		
<esc></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></f1>	General help, only for Status Page Setup Menu and Option Page Setup Menu		
<f2></f2>	Reserved		
<f3></f3>	Reserved		
<f4></f4>	Reserved		
<f5></f5>	Restore the previous CMOS value from CMOS, only for Option Page Setup Menu		
<f6></f6>	Load the default CMOS value from BIOS default table, only for Option Page Setup		
	Menu		
<f7></f7>	Load the Setup Defaults		
<f8></f8>	Reserved		
<f9></f9>	Reserved		
<f10></f10>	Save all the CMOS changes, only for Main Menu		

GEITING HELP

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. :F2)

Once you enter Award BIOS CMOS Setup Utility, the Main Menu (Figure 1) will appear on the screen. The Main Menu allows you to select from eight setup functions and two exit choices. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.

► Standard CMOS Features	► Frequency /Voltage Control		
►Advanced BIOS Features	Load Fail-Safe Defaults		
►Advanced Chipset Features	Load Optimized Defaults		
▶Integrated Peripherals	Set Supervisor Password		
▶Pow er Management Setup	Set User Password		
▶ PnP/PCI Configurations	Save & Exit Setup		
▶PC Health Status	Ex it Without Sav ing		
ESC:Quit	↑↓→←:Select ltect		
F10:Save & Exit Setup			
Time, Date, Hard Disk Type			

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Figure 1: Main Menu

• Standard CMOS Features

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

• Advanced BIOS Features

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

Advanced Chipset Features

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

BIOS S	Setup
--------	-------

• Integrated Peripherals

This setup page includes all onboard peripherals.

• Power Management Setup

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

• PnP/PCI Configurations

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

• PC Health Status

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

• Frequency/Voltage Control

This setup page is control CPU's clock and frequency ratio.

• Load Fail-Safe Defaults

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

Load Optimized Defaults

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

• Set Supervis or pass word

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

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Standard (CMOS Features	
Date (mm:dd:yy)	Mon, Feb 21 2000	Item Help
Time (hh:mm:ss)	22:31:24	Menu Level
►IDE Primary Master	Press Enter None	
►IDE Primary Slave	Press Enter None	
►IDE Secondary Master	Press Enter None	
►IDE Secondary Slave	Press Enter None	
Drive A	1.44M, 3.5 in.	
Drive B	None	
Floppy 3 Mode Support	Disabled	
Halt On	All, But Keyboard	
Base Memory	640K	
Extended Memory	130048K	
Total Memory	131072K	
↑↓→←: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help		
	Fail-Safe Defaults F7:Optimized Defa	ults

Figure 2: Standard CMOS Features

🗢 Date

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

- Week The week, from Sun to Sat, determined by the BIOS and is display 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 1994 through 2079

BIOS Setup

🗢 Time

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

☞ IDE Primary Master, Slave / Secondary Master, Slave

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

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

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

▶CYLS.	Number of cylinders
► HEADS	Number of heads
▶PRECOMP	Write precomp
▶LANDZONE	Landing zone
CEOTODON I	6

➡ SECTORSNumber 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 in.	5.25 inch PC-type standard drive; 360K byte capacity.
▶1.2M, 5.25 in.	5.25 inch AT-type high-density drive; 1.2M byte capacity
	(3.5 inch when 3 Mode is Enabled).
▶720K, 3.5 in.	3.5 inch double-sided drive; 720K byte capacity
▶1.44M, 3.5 in.	3.5 inch double-sided drive; 1.44M byte capacity.
▶2.88M, 3.5 in.	3.5 inch double-sided drive; 2.88M byte capacity.

∽ Floppy 3 Mode Support (for J apan Area)

➡ Disabled	Normal Floppy Drive. (Default value)
► Drive A	Drive A is 3 mode Floppy Drive.
► Driv e 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 Keyboar	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.

∽ Memory

The category is display-only which is determined by POST (PowerOn Self Test) of the BIOS. **Base Memory**

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

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

Extended Memory

The BIOS determines how much extended memory is present during the POST. This is the amount of memory located above 1 MB in the CPU's memory address map.

BIOS Setup

Advanced BIOS Features

CMOS Setup Utility -Copyright (C) 1984-2002 Award Software Advanced BIOS Features

, lav and		
RAID/SCSI Boot Order	RAID, SC SI	Item Help
First Boot Device	Floppy	Menu Level
Second Boot Device	HDD-0	
Third Boot Device	CDROM	
Boot Up Floppy Seek	Disabled	
Boot Up Num-Lock	On	
Password Check	Setup	
HDD S.M.A.R.T. Capability	Disabled	
↑↓→←: Move Enter:Select +/-/PU/PD	:Value F10:Save ESC:Exit F1:Gen	eral Help
F5:Previous Values F6:Fail-Safe E	Defaults F7:Optimized Defaults	

Figure 3: Advanced BIOS Features

∽ RAID/SCSI Boot Order

► RAID, SCSI	Select Boot first from RAID/ATA100 devi	ice on board . (Default Value)
--------------	---	--------------------------------

SCSI, RAID Select Boot first from SCSI/RAID device on the add-on PCI card.

∽ First / Second / Third Boot device

► Floppy	Select your boot device priority	by	Floppy.
▶LS120	Select your boot device priority	by	LS120.
► HDD-0~3	Select your boot device priority	by	HDD-0~3.
⊯SCSI	Select your boot device priority	by	SCSI.
▶CDROM	Select your boot device priority	by	CDROM.
₩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.

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▶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	Select your boot device priority by Disabled.

∽ Boot Up Floppy Seek

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

➡ Enabled	BIOS searches for floppy disk drive to determine it is 40 or 80 tracks. Note
	that BIOS can not tell from 720 K, 1.2 M or 1.44 M drive type as they are
	all 80tracks.
B 1 11 1	

Disabled BIOS will not search for the type of floppy disk drive by track number. Note that there will not be any warning message if the drive installed is 360 K. (Default value)

∽ Boot Up NumLock

▶On Keypad is number keys. (Default value)▶Off Keypad is arrow keys.

∽ Password Check

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

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

∽ HDD S.M.A.R.T. Capability

➡ Enabled	Enabled HDD S.M.A.R.T. Capability.
➡ Disabled	Disabled HDD S.M.A.R.T. Capability. (Default value)

BIOS Setup

Advanced Chipset Features

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Advanced Chipset Features

System BIOS Cacheable	Disabled	Item Help
Video RAM Cacheable	Disabled	Menu Level
		Ivienu Level
AGP Aperture Size (MB)	128	
AGP ISA Aliasing	Enabled	
AGP Fast Write	Enabled	
AGP Data Transfer Mode	4X	
AGP Always Compensate	Enabled	
AGP Secondary Lat Timer	20h	
SDRAM ECC Setting	Disabled	
Super Bypass Mode	Enabled	
DDR SDRAM Timing by	Auto	
✗ Idle Cycle Limit	8 Cycle	
* Page Hit Limit	8 Cycle	
* Trc Cycle	8 Cycle	
* Trp Cycle	3 Cycle	
* Tras Cycle	7 Cycle	
* CAS Latency Cycle	2 Cycle	
* Trcd Cycle	3 Cycle	
↑↓→←: Move Enter:Select +/-/PU/PD:Va	lue F10:Save ESC:Exit F1:G	eneral Help
F5:Previous Values F6:Fail-Safe Defa	aults F7:Optimized Defaults	
Figure 4: Adva	inced Chipset Features	

∽ System BIOS Cacheable

➡ Disabled Disabled	le System BIOS Cacheable	(Default Value)
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➡ Enabled Enable System BIOS Cacheable.

∽ Vidio RAM Cacheable

➡ Disabled	Disable this function. (Default Value)
► Enabled	Enable this function to get better VGA performance; while some brands of VGA $% \left({{{\rm{A}}} \right)$
	must be disabled this function (e.g. ET4000W32P).

∽ AGP Aperture Size

➡ 32MB	Set AGP Aperture Size to 32 MB.
▶ 64MB	Set AGP Aperture Size to 64 MB.
▶128MB	Set AGP Aperture Size to 128 MB.(Default Value)

► 256MB Set AGP Aperture Size to 256 MB.

∽AGP ISA Aliasing

➡ Disabled	Disable this function.
➡ Enabled	When enabled, ISA address bits 15:10 are not used in decoding.
	(Default Value)

Generation of the second se

➡ Disabled	Disabled AGP Fast Write
➡ Enabled	Enabled AGP Fast Write. (Default Value)

${}^{{}_{{}^{\!\!\mathcal C\!P}}} AGP\,Mode$

► 4X	Set AGP Mode is 4X. (Default Value)
► 1X/2X	Set AGP Mode is 1X/2X.

@AGPAl ways Compensate

➡ Enabled	When enabled, dynamic compensation is performed by AGP on an ongoing
	basis at regular intervals. (Default Value)
➡ Disabled	Disabled AGP always compensate.

General Contract Secondary Lat Timer

▶00h~FFh This allows you to set the AGP Secondary Lat Timer.

∽ SDRAM ECC Setting

► Check only	Detects only.
► C orrect error	Allows the correction of single-bit errors and the detection of multiple-bit errors.
► C orrect+scrub	Detects , corrects read errors, and writes the corrected data to memory.
➡ Disabled	Disabled SDRAM ECC Setting.(Default Value)

∽ Super Bypass Mode

➡ Enabled	The chipset internally by passes certain memory to CPU pipe stages for
	optimal performance. (Default Value)

► Disabled Disabled Super Bypass Mode.

◦ DDR SDRAM Timing by

► Auto	The system will automatically set proper values to DDR SDRAM Idle Limit,
	Page Hit Limit, Trc Cycle, Trp Cycle, Tras Cycle, CAS Latency Cycle and
	Trcd Cycle. (Default Value)

► Manual Set DDR SDRAM Timing by Manual.

Integrated Peripherals

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Integrated Peripherals		
IDE Read/Write Prefetch	Disabled	Item Help
On-Chip Primary PCI IDE	Enabled	Menu Level
On-Chip Secondary PCI IDE	Enabled	
USB Host Controller	Disabled	
*USB Keyboard Support	Disabled	
*USB Mouse Support	Disabled	
Init Display First	PCI Slot	
On-Chip AC97	Auto	
Onboard Serial Port 1	3F8/IRQ4	
Onboard Serial Port 2	2F8/IRQ3	
UART Mode Select	Normal	
* RxD, TxD Active	Hi, Lo	
* IR Transmission Delay	Enabled	
* UR2 Duplex Mode	Half	
* Use IR Pins	IR-Rx2Tx2	
Onboard Parallel Port	378/IRQ7	
Parallel Port Mode	ECP	
* EPP Mode Select	EPP 1.7	
* ECP Mode Use DMA	3	
Game Port Address	201	
Midi Port Address	330	
Midi Port IRQ	10	
↑↓→←: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help		
F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults		
Figure 5: Integrated P	eripherals	

∽ IDE Read/Write Prefetch

➡ Disabled	Disabled IDE Read/Write Prefetch. (Default value)
------------	---

► Enabled Enabled IDE Read/Write Prefetch.

∽ On-Chip Primary PCI IDE

Disabled	Disable	onboard	1st	channel	IDE	port.
----------	---------	---------	-----	---------	-----	-------

► Enabled Enable onboard 1st channel IDE port. (Default Value)

◦ On-Chip Second PCI IDE

Disabled Disable onboard 2nd channel IDE port.
--

► Enabled Enable onboard 2nd channel IDE port. (Default Value)

∽ USB Host Controller

➡ Enabled	Enabled USB Host Controller.
➡ Disabled	Disabled USB Host Controller. (Default value)

∽ USB Keyboard Support

➡ Enabled	Enabled USB Keyboard legacy Support.
➡ Disabled	Disabled USB Keyboard legacy Support. (Default value)

∽ USB Mouse Support

➡ Enabled Enabled USB Mouse legacy Support.	abled Enab	ed USB Mouse	legacy	Support.	
---	------------	--------------	--------	----------	--

Disabled → Disabled USB Mouse legacy Support. (Default value)

🗢 Init Display First

► PCI Slot	Set Init Display First to PCI Slot. (Default value)

►AGP Set Init Display First to AGP.

∽ On-Chip AC97

► Auto	BIOS will automatically detect onboard AC97 Audio. (Default value)
➡ Disabled	Disabled AC97 Audio.

∽ Onboard Serial Port 1

► Auto	BIOS will automatically setup the port 1 address.
▶ 3F8/IRQ4	Enable onboard Serial port 1 and address is 3F8. (Default Value)
▶2F8/IRQ3	Enable onboard Serial port 1 and address is 2F8.
➡ 3E8/IRQ4	Enable onboard Serial port 1 and address is 3E8.
► 2E8/IRQ3	Enable onboard Serial port 1 and address is 2E8.
➡ Disabled	Disable onboard Serial port 1.

∽ Onboard Serial Port 2

BIOS will automatically setup the port 2 address.
Enable onboard Serial port 2 and address is 3F8.
Enable onboard Serial port 2 and address is 2F8. (Default Value)
Enable onboard Serial port 2 and address is 3E8.
Enable onboard Serial port 2 and address is 2E8.
Disable onboard Serial port 2.

∽ UART Mode Select

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

►ASKIR	Set onboard I/O chip UART to ASKIR Mode.
▶ IrDA	Set onboard I/O chip UART to IrDA Mode.

► Normal Set onboard I/O chip UART to Normal Mode. (Default Value)

∽ RxD, TxD Active

i Hi, Hi → Hi	Set RxD,TxD Active to Hi, Hi.	
Hi, Lo	Set RxD,TxD Active to Hi, Lo.	(Default Value)
▶ Lo, Hi	Set RxD,TxD Active to Lo, Hi.	
▶Lo, Lo	Set RxD,TxD Active to Lo, Lo.	

∽ IR Transmis sion Delay

➡ Enabled Enabled IR Transmission delay. (Default Value)	<u>;</u>)
--	------------

- Disabled Enabled IR Transmission delay.
 - 40

$^{\curvearrowleft}$ UR2 Duplex Mode (When you set Serial Port 2 to HPSIR or ASKIR

Mode)

▶ Full	Set IR to Full mode.
Half	Set IR to Half mode. (Default Value)

∽ Use IR Pins

₩IR-Rx2Tx2	Enable On Board LPT port and address is 378. (Default Value)
► Rx D2, Tx D2	Enable On Board LPT port and address is 278.

🗢 Onboard Parallel port

➡ 378/IRQ7	Enable onboard LPT	oort and address is 378/IRC	7. (Default Value)
------------	--------------------	-----------------------------	--------------------

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

∽ Parallel Port Mode

►Normal	Using Parallel port as Normal.
₩EPP	Using Parallel port as Enhanced Parallel Port.
SPP	Using Parallel port as Serial Parallel Port.(Default Value)
₩ECP	Using Parallel port as Extended Capabilities Port.
►ECP/EPP	Using Parallel port as ECP & EPP mode.

∽ EPP Mode Select

▶ EPP 1.7	The item sets the EPP version used by the Parallel port if the Parallel port mode is
	set to EPP or ECP+EPP mode. (Default Value)
▶ EPP 1.9	EPP Version is 1.9.

∽ ECP Mode Use DMA

- ➡ 3 ECP Mode Use DMA 3 (Default Value)
- ►1 ECP Mode Use DMA 1.

◦ GAME Port Address

▶201	Set Game Port address to 201. (Default Value)
▶209	Set Game Port address to 209.
➡ Disabled	Disabled Game Port

∽ Midi Port Address

▶ 330	Set Midi Port address to 330. (Default Value)
▶ 300	Set Midi Port address to 300.
▶290	Set Midi Port address to 290.
➡ Disabled	Disabled Midi Port

∽ Midi Port IRQ

▶5	Set Midi Port IRQ to 5.
▶10	Set Midi Port IRQ to 10. (Default Value)

Power Management Setup

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Pow er	Managemen	t Setup	
		Inctant off	

	0 1	
Soft-Off by PBTN	Instant-off	Item Help
State After Power Failure	Off	Menu Level
Wake-Up by PCI card	Disabled	
RI Resume/WOL	Disabled	
RTC Resume	Disabled	
* Date(of Month) Alarm	Everyday	
* Time(hh:mm:ss) Alarm	0 0 0	
↑↓→←: Move Enter:Select +/-/PU/PD:	Value F10:Save ESC:Exit F1:Gener	al Help
F5:Previous Values F6:Fail-Safe D	efaults F7:Optimized Defaults	
Figure 6: Pr	ower Management Setup	

Figure 6: Power Management Setup

∽ Soft-off by PBTN

► Instant off	Soft switch ON/OFF for Power Button. (Default Value)
➡ Delay -4Sec	Soft switch ON 4 Sec for Power off.

∽ State After Power Failure

➡Auto Set auto to leave system in the former status after AC back

- Set On to system after AC back. ₩On
- ▶ Off Set Off to system after AC back. (Default Value)

☞ Wake-UP by PCI card

- ➡ Disabled Disabled this function. (Default Value)
- ➡ Enabled Enabled Wake up by PCI card.

∽ RI Res ume/WOL

- ➡ Disabled Disabled Modem Ring on/wake on LAN function.
- Enabled Modem Ring on/wake on LAN. (Default Value) ➡ Enabled

∽ RTC Resume

You can set "RTC Alarm Resume" item to enabled and key in Data/time to power on system. ▶ Disabled
Disable this function. (Default Value)

► Enabled Enable alarm function to POWER ON system.

If RTC Alarm Lead To Power On is Enabled.

RTC Alarm Date : Every Day, 1~31

RTC Alarm Hour:	0~23

RTC Alarm Minute : 0~59

RTC Alarm Second : 0~59

PnP/PCI Configurations

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PnP/PC	I Configurations	
Resources Controlled By	Auto	Item Help
×IRQ Resources	Press Enter	Menu Level
PCI1/PCI5 IRQ Assignment	Auto	
PCI2/PCI6 IRQ Assignment	Auto	
PCI3 IRQ Assignment	Auto	
PCI4 IRQ Assignment Auto	Auto	
↑↓→←: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help		
F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults		
Figure	7: PnP/PCI Configurations	

◦ Resources Controlled by

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

∽ IRQ Resources (3,4,5,7,9,10,11,12,14,15)

► PCI Device	The resource is used by PCI device.
➡ Reserved	Set the resource to reserved.

∽ PCI1/PCI5 IRQ Assignment

► Auto	Auto assign IRQ to PCI 1. (Default value)
▶ 3,4,5,7,9.,10,11,12,14,15	Set 3,4,5,7,9,10,11,12,14,15 to PCI1.

∽ PCI2/PCI6 IRQ Assignment

► Auto	Auto assign IRQ to PCI 2. (Default value)
▶ 3,4,5,7,9.,10,11,12,14,15	Set 3,4,5,7,9,10,11,12,14,15 to PCI2.

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∽ PCB IRQ Assignment

► Auto	Auto assign IRQ to PCI 3. (Default value)
▶ 3,4,5,7,9.,10,11,12,14,15	Set 3,4,5,7,9,10,11,12,14,15 to PCI3.

◦ PCI4 IRQ Assignment

► Auto	Auto assign IRQ to PCI 4. (Default value)		
▶ 3,4,5,7,9.,10,11,12,14,15	Set 3,4,5,7,9,10,11,12,14,15 to PCI4.		

PC Health Status

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us	_ _
Disabled	Item Help
Yes	Menu Level
1.72V	
1.74V	
3.30V	
5.02V	
12.280 V	
-12.280 V	
-5.09 V	
31°C~89°F	
31°C~89°F	
31°C~89°F	
5443 RPM	
5443 RPM	
0 RPM	
Disabled	
10:Save ESC:Exit F1:Gene	eral Help
F7:Optimized Defaults	
	Disabled Yes 1.72V 1.74V 3.30V 5.02V 12.280 V -12.280 V -5.09 V 31°C~89°F 31°C~89°F 31°C~89°F 5443 RPM 5443 RPM 0 RPM Disabled Disabled Disabled Disabled Disabled Disabled

Figure8: PC Health Status

∽Reset Case Open Status

∽ Case S tatus

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

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

If you want to reset "Case Opened" value, set "Reset Case Open Status" to

"Yes" and save CMOS, your computer will restart.

$^{\sim}$ Current Voltage (V) VCOREA/B / 3.3V / +5V / -5V / +12V /-12V

► Detect system's voltage status automatically.

∽ Current CPU0/1 & System Temp. (°C / °F)

→ Detect CPU0/1 & System Temp. automatically.

∽ Current CPU0/1 & System Fan Speed (RPM)

► Detect Fan speed status automatically.

☞ CPU0/1 Warning Temperature

ы 60°С / 140°F	Monitor CPU0/1 Temp. at 60°C / 140°F.
▶70°C / 158°F	Monitor CPU0/1 Temp. at 70°C / 158°F.
₩80°C / 176°F	Monitor CPU0/1 Temp. at 80°C / 176°F.
▶90°C / 194°F	Monitor CPU0/1 Temp. at 90°C / 194°F.
➡ Disabled	Disabled this function. (Default value)

∽ Fan Warning (CPU0/1 & SYSTEM)

➡ Disabled	Fan Warning Function Disabled. (Default value)
➡ Enabled	Fan Warning Function Enabled.

Frequency/Voltage Control

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|--|

ClkGen Spread Spectrum	Enabled	ltem Help
CPU Host /PCI Clock	Default	Menu Level
↑↓→←: Move Enter:Select +/-/PU/PD:Valu	e F10:Save ESC:Exit F1:Gener	al Help
F5:Previous Values F6:Fail-Safe Defau	Its F7:Optimized Defaults	

Figure 9: Frequency/Voltage Control

∽ ClkGen Spread Spectrum

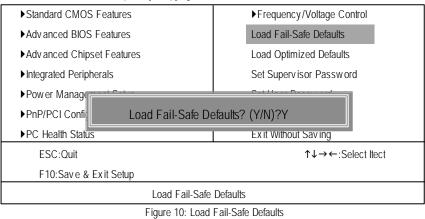
➡ Disabled	Disabled ClkGen Spread Spectrum .
➡ Enabled	Enabled ClkGen Spread Spectrum . (Default value)

∽ CPU Host /PCI Clock

- ► Default Set Default Value . (Default value)
- ► 133/33 MHz Set 133/33 MHz
- ▶ 134/34 MHz Set 134/34 MHz
- ▶ 135/34 MHz Set 135/34 MHz
- ► 137/34 MHz Set 137/34 MHz
- ► 139/35 MHz Set 139/35 MHz
- ► 143/36 MHz Set 143/36 MHz
- ► 145/37 MHz Set 145/37 MHz
- ► 149/38 MHz Set 149/38 MHz

Load Fail-Safe Defaults

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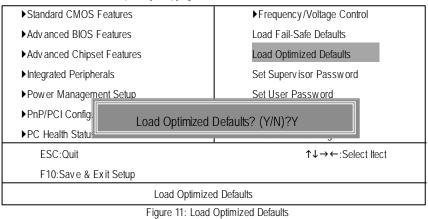
Load Fail-Safe Defaults

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



Load Optimized Defaults

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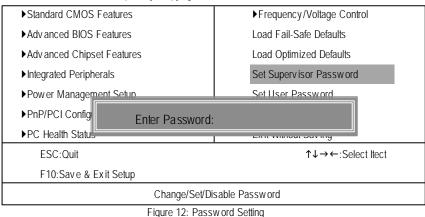


Load Optimized Defaults

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

Set Supervisor/User Password

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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:

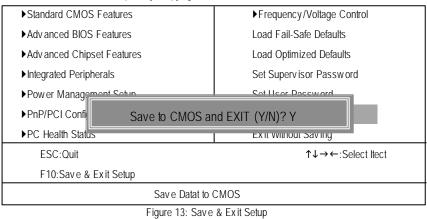
SUPERVISOR PASSWORD and a USER PASSWORD. When disabled, anyone may access all BIOS Setup program function. When enabled, the Supervisor password is required for entering the BIOS Setup program and having full configuration fields, the User password is required to access only basic items.

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

Save & Exit Setup

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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

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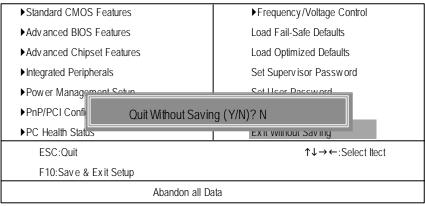


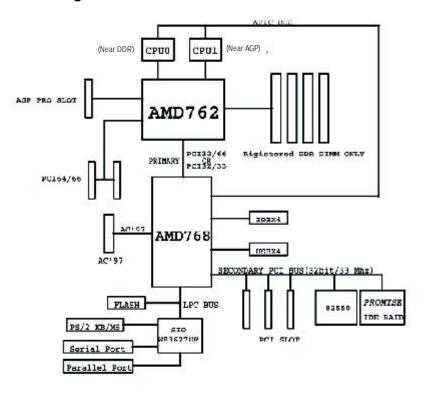
Figure 14: Exit Without Saving

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

Technical Reference

Chapter 4 Technical Reference

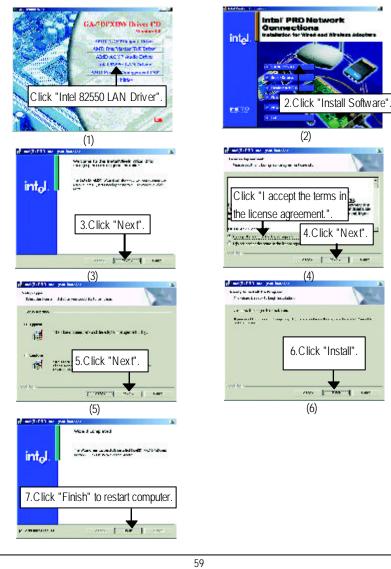
Block Diagram



Appendix

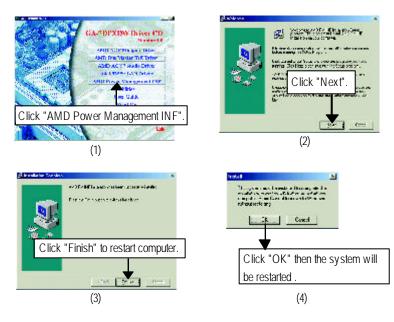
Appendix D: Intel 82550 LAN Utility

Insert the driver CD-title that came with your motherboard into your CD-ROM driver, 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.



Appendix E: AMD Power Management INF

Insert the driver CD-title that came with your motherboard into your CD-ROM driver, 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.



Appendix

Appendix F	: Acronyms		
Acronyms	Meaning		
ACPI	Advanced Configuration and Power Interface		
APM	Advanced Power Management		
AGP	Accelerated Graphics Port		
AMR	Audio Modem Riser		
ACR	Advanced Communications Riser		
BBS	BIOS Boot Specification		
BIOS	Basic Input / Output System		
CPU	Central Processing Unit		
CMOS	Complementary Metal Oxide Semiconductor		
CRIMM	Continuity RIMM		
CNR	Communication and Networking Riser		
DMA	Direct Memory Access		
DMI	Desktop Management Interface		
DIMM	Dual Inline Memory Module		
DRM	Dual Retention Mechanism		
DRAM	Dynamic Random Access Memory		
DDR	Double Data Rate		
ECP	Extended Capabilities Port		
ESCD	Extended System Configuration Data		
ECC	Error Checking and Correcting		
EMC	Electromagnetic Compatibility		
EPP	Enhanced Parallel Port		
ESD	Electrostatic Discharge		
FDD	Floppy Disk Device		
FSB	Front Side Bus		
HDD	Hard Disk Device		
IDE	Integrated Dual Channel Enhanced		
IRQ	Interrupt Request		
I/O	Input / Output		
IOAPIC	Input Output Advanced Programmable Input Controller		
ISA	Industry Standard Architecture		

to be continued.....

Acronyms	Meaning
LAN	Local Area Network
LBA	Logical Block Addressing
LED	Light Emitting Diode
MHz	Megahertz
MIDI	Musical Instrument Digital Interface
MTH	Memory Translator Hub
MPT	Memory Protocol Translator
NIC	Network Interface Card
OS	Operating System
OEM	Original Equipment Manufacturer
PAC	PCI A.G.P. Controller
POST	Power-On Self Test
PCI	Peripheral Component Interconnect
RIMM	Rambus in-line Memory Module
SCI	Special Circumstance Instructions
SECC	Single Edge Contact Cartridge
SRAM	Static Random Access Memory
SMP	Symmetric Multi-Processing
SMI	System Management Interrupt
USB	Universal Serial Bus
VID	Voltage ID

Customer/Country:		Company:		Phone No.:	
Contact Person	:	E-mail Add. :			
Model name/Lo	t Number:			PCB revision:	
BIOS version:		0.S./A.S.:			
				1	
Hardware	Mfs.	Model name	Size:	Driver/Utility:	
Configuration					
CPU					
Vemory					
Brand					
√ideo Card					
Audio Card					
HDD					
CD-ROM /					
DVD-ROM					
Modem					
Network					
AMR/CNR					
Keyboard					
Mouse					
Power supply					
Other Device					
Problem Descri	ption:				
_					

Appendix