GCT-SIV USER'S MANUAL

PCI, ISA Pentium® Processor-75 MHz~200 MHz Mainboard With On Board PCI Bus Master IDE and Super Multi-I/O



CE



USER'S MANUAL

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I INTRODUCTION

How this manual is organized

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I FEATURES

Features of This Motherboard

The 82430 VX/P54C PCI mainboard is a high—performance system board that supports Pentium P54CX family CPUs. The mainboard is fully compatible with industry standards and adds many technical enhancements.

KEY Features CPU One 321—socket 7 for intel Pentium (P54C/CQS/CS, P55C MMX), AMD 5k86, and Cyrix 6X86 processors CPU Clock Intel:75/90/100/120/133/150/166/180/200MHz Cyrix:P120⁺/133⁺/150⁺/166⁺ · AMD:75/90/100MHz ■ Memory Subsys- • Integrated DRAM Controller tem Expandable to 128MB With Four 72pin SIMM sockets. (Supports Fast—Page Mode & EDO DRAM) Two 168pin DIMM Sockets (Support 5V Fast-Page Mode & EDO DRAM or 3.3V Synchronus DRAM) Cache Subsys- Integrated Second level (L2) cache Controller tem Write Back Cache Modes and Direct Mapped Organization On board 64bit 256KB L2 SYNC. Cache memory (COAST Module Slot up to 512KB Pipelined Burst Synchronous ☐ IDE • Two on board PCI IDE Port (DMA Mode 0/1/2, PIO Mode 5) ☐ I/O (SMC · Supports Host/Hub & Two USB Ports. 665/669) · Two high speed 16550 compatible serial ports, one Multi-Mode Parallet Port fixed SPP/EPP/ECP standard Supports two 360KB /720KB 1.2MB/1.44MB/2.88MB floppy disk drives

I FEATURES

• 1 PS/2 Mouse port

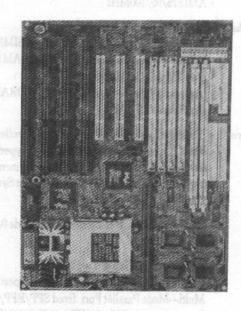
BIOS SYSTEM BIOS built-in NCR SCSI BIOS and plug & play

function

on-board supports FLASH Memory for easy upgrade BIOS

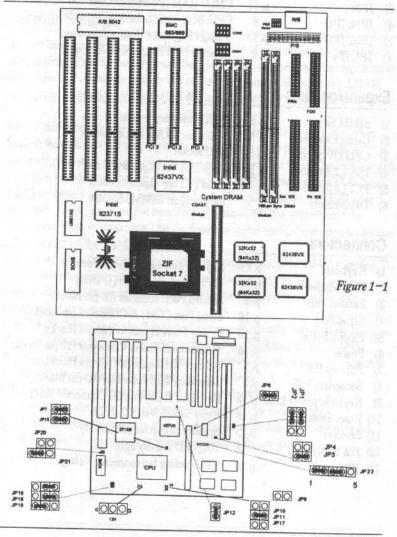
Expansion slot • Three PCI Master Slots & Four 16—bit ISA slots

Parts of the Motherboard



II INSTALLATION

Map of the Motherboard



■ INSTALLATION

Ju	mpers	ÍΤΑ	TIATALL III
1)	JP1, JP2	p, 13	DIMM Voltage Selection
2)	JP22	p. 13	Cache Size Selection
3)	JP20	p. 31	CMOS RAM (Operation/Clear CMOS Data)
4)	JP10, JP11	p. 8	CPU: BUS Ratio Selection
5)	JP16, JP17	p. 12	Voltage Regulator Output Selection
6)	JP3, JP4	p. 9	External BUS Frequency Selection
Ex	pansion Slots		
1)	SIMM Slots	p. 5	DRAM memory expansion slots
2)	Cache Expansion	p. 5	Socket for SRAM cache module
3)	CPU ZIF Socket	p. 5	CPU socket
4)	ISA 1,2,3,4 Slots	p. 5	16-bit ISA bus expansion slots
5)	PCI 1,2,3 Slots	p. 5	32-bit PCI bus expansion slots
6)	DIMM Slots	p. 5	168 pin Sync. DIMM Modules
C	onnectors		
1)	Keyboard	p. 15	Keyboard connector (5-pin Female)
2)	PS/2 Mouse	p. 16	PS/2 Mouse connector (4PIND)
3)	Parallel Port	p. 5	Parallel Port connector (26-pin Block)
4)	Serial Port	p. 16	Serial Port COM1 & COM2 (10-pin Blocks)
5)	Floppy Drive	p. 16	Floppy Drive connector (34-pin Block), J1
6)	Power	p. 16	Motherboard Power Connector (12-pin Block)
7)	Primary IDE	p. 5	Primary IDE connector (40-pin Block), J2
8)	Secondary IDE	p. 5	Secondary IDE connector (40-pin Block), J4
9)	Keylock/power LED	p. 15	Key Lock & power LED Connector J22 (1-5)
	Reset Switch	p. 16	Reset Switch lead J22 (8, 18)
11)	Speaker	p. 15	Speaker connector J22 (11, 14)
12)	J22(10,20)	p. 16	IDE LED activity light
1000	JP13	p. 15	CPU cooling fan connector Voltage

Installation Procedures

- 1. Set Jumpers on the Motherboard
- 2. Install the CPU
- 3. Setup the BIOS Software

Jumper Settings

Several hardware settings are made through the use of jumper caps to connect jumper pins (JP) on the motherboard. See "Map of the Motherboard" for locations of the jumpers. The jumpers settings will be described numerically such as [...], [1–2], [2–3] for no connection, connect pins 1 & 2, and connect pins 2 & 3 respectively. Pin 1

for our motherboards is always on top or on the right of on the right

Settings with two jumper numbers require two jumper caps to be moved together. To connect the pins, simply place a plastic jumper cap over the two pins as needed. Jumper pins without connection numbers are external connectors for LEDs or switches, not for jumper caps.

CAUTION: Computer motherboards and components contain very delicate IC chips. To protect the motherboard and other components against damage from static electric, you should follow some precautions whenever you work on your computer:

- 1. Unplug your computer when working on the inside.
- 2. Hold components by the edges and try not to touch the IC chips.
- 3. Use a grounded wrist strap before handling computer components.
- Place components on a grounded antistatic pad or the bag that came with the component whenever you work on them outside the computer.

JP10, JP11: Bus Fraction Core/Bus Ratio Select

Set this jumper according to your CPU clock.

Ratio	586 CPU Family	JP11,JP10
1.5X	Pentium-75, 90-100MHz AMD 5k86-P75, P90, P100MHz AMD 5k86(k5)-P120, P133MHz	○ ○ JP10 ○ JP11
2.0X Default	Pentium-120, 133MHz Cyrix-P120+, P133+, P150+, P166+ Pentium(MMX)-133MHz	JP10
2.5X	Pentium-150,166MHz Pentium(MMX)-150,166MHz	JP10
3.0X	Pentium-180,200MHz Pentium(MMX)-200MHz	JP1
3.5X	Pentium(MMX)-233MHz	JP10

CPU TYPE Configuration

Set the mainboard's CPU jumpers JP4, JP3, JP10 and JP11 according to CPU type as described below, and then set for the proper voltage of the CPU.

Pentium-75/90/100 CPU Settings(1.5x clock)

AMD5k86(K5)/K6-P75/P90/P100/P120/P133(1.5x,clock)

Pentium(P54C)-75/50MHz

AMD5k86(K5)/K6-P75/50 MHz

Pentium(P54C)-90/60MHz

AMD5k86(K5)/K6-P90/60 MHz

AMD5k86(K5)/K6-P120/60 MHz

Pentium(MMX)-233/66MHz Pentium(P54C)-100/66MHz AMD5k86(K5)/K6-P100/66 MHz

AMD5k86(K5)/K6-P133/66 MHz

JP4

Figure 2-1-1.CPU Jumper Settings

Note: You must equip the CPU with a fan and heat sink for system stability.

III INSTALLATION

Pentium-100/120/133 CPU Settings(2.0x clock)

Cyrix 6x86-P120⁺/P133⁺/P150⁺/P166⁺CPU Settings(2.0x clock)

AMD 5k86/K6-P150/P166 CPU Settings(2.0x clock)

Pentium(P54C)-100/

Cyrix 6x86-P120⁺/5

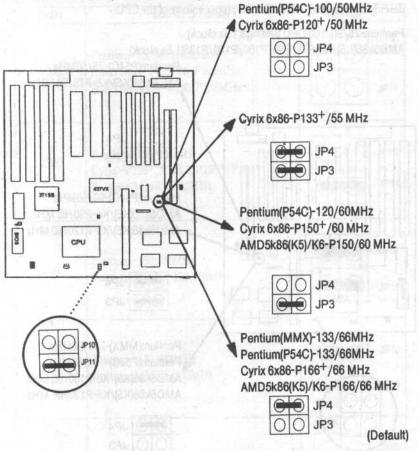
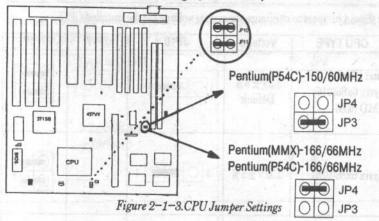


Figure 2-1-1.CPU Jumper Settings

Note:

- 1. You must equip the CPU with a fan and heat sink for system stability.
- 2. Cyrix 6x86-P166+ has to be marched with 60ns DRAMs.
- 3. If Install SDRAM pls clos JP9.

Pentlum-150/166 CPU Settings (2.5x clcck)



Note: You must equip the CPU with a fan and heat sink for system stability.

Pentium-180/200 CPU Settings(3.0x clock)

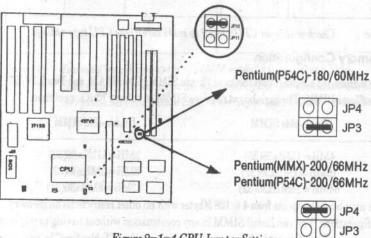


Figure 2-1-4.CPU Jumper Settings

Note: You must equip the CPU with a fan and heat sink for system stability.

JP16, JP17, JP7, JP15: CPU Voltage Select

Set these 4 jumpers to configure the proper voltage for the installed CPU.

CPU TYPE	Voltage	JP16	JP17	JP7/JP15
Intel P54C Cyrix 6x86(016) AMD 5k86	3.3V±5% Default	3 0 0 1	00	
Cyrix 6x86(028)	3.52V±5%	3 0 1	00	
P55C(MMX) Cyrix 6x86L AMD K6	2.8V±5% 1 2.9V±5%	30001		00

Note:

Check with your CPU vendor to make sure of the CPU type voltage.

Memory Configuration

The mainboard supports two banks of 72-pin SIMM, EDO DRAM, and Two 3.3V/5V Unbuffered DIMM. The mainboard requires SIMM of at least 70ns access time.

Single-side SIMM	Double-side SIMM
4MB=1MBx36(32)	2MB=512Kx36(32) 8MB=2MBx36(32)
16MB = 4MBx36(32) 64MB = 16MBx36(32)	32MB = 8MBx36(32)

The mainboard supports from 4 to 128 Mbytes with no other restrictions on memory configurations. You can install SIMM in any combination without having to rely on a memory configuration table. Memory configuration is thus "Table—Free" in any SIMM bank.

JP1, JP2: DIMM Voltage Setting

You must check the voltage of your DIMM before you install it. See JP1 and JP2 to configure the proper voltage for DIMM.

Type of DIMM	JP1, JP2
3.3V SDRAM (default)	2d
5V Fast—Page Mode and EDO	2 E 2 E 2 E 2 E 2 E 2 E 2 E 2 E 2 E 2 E

Note: 1. You must install two strips of SIMM modules to complete a bank.

 Bank 1 and DIMM1 share the same part of DRAM architecture so that the system only recognizes DIMM when you install DIMM1 and Bank1 together.

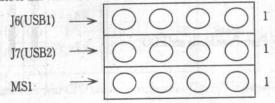
J3: Parallel Port Connector

Attach parallel port cable to this connector.

J14: Pipelined Burst SRAM Module Slot

Cache size	JP22
256K (default)	default
512K	00000

J6/J7 Connectors: USB Connectors. Attach USB cable to this connector



Multi I/O Port Addresses

Default settings for multi-I/O Port Addresses are shown in the table below.

Port	I/O Addresses	IRQ	Status
LPT1*	378H	7	NORMAL
COM1	3F8H	4	
COM2	2F8H	3	AND STATE OF THE S

* If default I/O Port Addresses conflict with other I/O cards (e. g. sound cards or I/O cards), you must adjust one of the I/O Address to avoid address conflict. (You can adjust these I/O Addresses from the BIOS.

Note:

Some sound cards have a default IRQ setting for IRQ 7, which may conflict with printing function. If this occurs do not use sound card functions at the same time you print.

Connectors

Attach the mainboard to case devices, or an external battery, via connectors on the mainboard. Refer to Figure 1–1 for connector locations and connector pin positions.

KB1-Keyboard Connector

A five—pin female DIN keyboard connector is located at the rear repetition the board. Plug the keyboard jack into this connector.

J22(1-5)-Keylock & Power LED Connector

J23 is a connector for a lock that may be installed on the system case for enabling or disabling the keyboard. J22 also attaches to the case's Power LED. (Pin 1–3 for power LED, pin4–5 for keylock.)

J22(11-14)-Speaker Connector

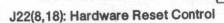
Attach the system speaker to connector J22(11-14).

JP13: CPU Cooling fan Voltage Connector



J5-Power Supply Connectors

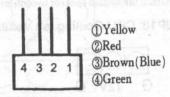
The mainboard requires a power supply with at least 200 watts and a "power good" signal. J5 has two six—pin male header connectors. Plug the dual connectors from the power directly onto the board connector while making sure the black leads are in the center.



Attach the Reset switch to J22. Closing the Reset switch restarts the system.

MS1: PS/2 Mouse Connector

Attach PS/2 mouse cable to this connector.



J2/J4: On-board Primary/Secondary IDE HDD Connectors

Attach on-board hard disk drives to these connectors.

J22(10,20): HDD LED Connectors

Attach on-board hard disk drive LEDs to these connectors. The LED lights when an HDD is active.

J12(COM1)/J11(COM2) Connectors

Attach COM1/COM2 cable to these connectors.

J1: FDC Connector

Attach floppy cable to this connector.

BIOS Setup

The mainboard's BIOS setup program is the ROM PCI/ISA BIOS from Award Software Inc. Enter the Award BIOS program's Main Menu as follows:

- Turn on or reboot the system. After a series of diagnostic checks, you are asked to press DEL to enter Setup.
- Press the (DEL) key to enter the Award BIOS program and the main screen appears:

ROM PCI/ISA BIOS CMOS SETUP UTILITY AWARD SOFTWARE, INC.

Time, Date	e, Hard Disk Type
Esc: Quit F10: Save & Exit Setup	† ↓→←: Select Item (Shift) F2: Change Color
LOAD SETUP DEFAULTS	EXIT WITHOUT SAVING
LOAD BIOS DEFAULTS	SAVE & EXIT SETUP
PNP/PCI CONFIGURATION	IDE LOW LEVEL FORMAT
POWER MANAGEMENT SETUP	IDE HDD AUTO DETECTION
CHIPSET FEATURES SETUP	USER PASSWORD
BIOS FEATURES SETUP	SUPERVISOR PASSWORD
STANDARD CMOS SETUP	INTEGRATED PERIPHERALS

- 3. Choose an option and 〈Enter〉. Modify the system parameters to reflect the options installed in the system. (See the following sections.)
- 4. Press (ESC) at any time to return to the Main Menu.
- In the Main Menu, choose "SAVE AND EXIT SETUP" to save your changes and reboot the system. Choosing "EXIT WITHOUT SAVING" ignores your changes and exits the program.

The Main Menu option of the Award BIOS are described in the sections that follow.

Standard CMOS Setup

Run the Standard CMOS Setup as follows.

 Choose "STANDARD CMOS SETUP" from the Main Menu. A screen appears.

> ROM PCI/ISA BIOS STANDARD CMOS SETUP AWARD SOFTWARE, INC.

0	Auto
0	CA.in
	Auto
0	Auto
0	Auto
ory: 640K ory: 3328K ory: 128K	
ory: 4096K	
a	ry: 128K

Use arrow keys to move between items and select values. Modify selected fields
using PgUp/PgDn/+/-keys. Some fields let you enter values directly.

Date(mm/dd/yy) Type the current date.

Time (hh:mm:ss) Type the current date.

Primary (Secondary) Choose from the standard hard disk types 1 to 46. Type
Master & Slave 47 is user definable. If a hard disk is installed choose

"AUTO" (default)

Drive A & B Choose 360KB, 51/4 in.,

1.2MB, 51/4 in., 720KB, 31/2 in., 1.4M, 31/2 in. (default), 2.88MB, 31/2 in.or

Not installed

Video Choose Monochrome,

Color 40x25,

VGA/EGA(default),

Color 80x25

3. When you finish, press the (ESC) key to return to the Main Menu.

BIOS Features Setup

Run the BIOS Features Setup as follows.

 Choose "BIOS FEATURES SETUP" from the Main Menu and a screen with a list of items appears. (The screen below shows the SETUP default settings.)

> ROM PCI/ISA BIOS BIOS FEATURES SETUP AWARD SOFTWARE, INC.

Virus Warning	: Disabled	Video BIOS Shadow	: Enabled
CPU Internal Cache	: Enabled	C8000—CBFFF Shadow	: Dinabled
External Cache	: Enabled	CC000—CFFFF Shadow	: Disabled
Quick Power on Self Test	: Enabled	D0000—D3FFF Shadow	: Disabled
Boot Sequence	: A,C	D4000—D7FFF Shadow	: Disabled
Swap Floppy Drive	: Disabled	D8000—DBFFF Shadow	: Dinabled
Boot up System speed	: high	DC000-DFFFF Shadow	: Disabled
Boot up NumLock Status	: on	THE PROJECT OF STREET SHOWING A STREET	
Gate A20 Option	: fast	CHARLES THE CASE OF THE	200
Typematic Rate Setting	: Disabled	ALCOHOL STREET, STREET	
Typematic Rate (Chars/Sec	: 6	ESC:Quit	† 1 → Select Item
Typematic Rate Delay (Msec)	: 250	F1:Help	PU/PD/+/-: Modify
Security Option	1 Setup	F5:Old Values	(Shift) F2: Color
PS/2 mouse function control	: Enabled	F6: Load BIOS Defaults	
PCI/VGA Palette Snoop	: Disabled	F7:Load Setup.Defaults	
Os Select for DRAM >64MB	: Non-OS2		

 Use the arrow keys to move between items and to select values. Modify the selected fields using the PgUp/+/-keys. (F) keys are explained below:

(F1): "Help" gives options available for each item.

Shift (F2): Change color.

(F5): Get the old values. These values are the values with which the user started the current session.

(F6): Load all options with the BIOS Setup default values.(F7): Load all options with the Power—On default values.

A short description of screen items follows:

Virus Warning This option enables/disables the HDD Boot virus check.

(The Default Setting is Disabled)

CPU Internal This option enables/disables the CPU's internal cache.

Cache (The Default setting is Enabled.)

External Cache This option enables/disables the external cache memory.

(The Default setting is Enabled.)

Quick Power On Enabled provides a fast POST at boot-up.

Self Test

Boot Sequence The default setting attempts to first boot from drive A:, drive C, or CD-ROM. You can reverse this sequence with "C:A:", but then drive A: cannot be booted up directly. (It depends on the specifications of CD-ROM or CD-ROM drivers to boot from CD-ROM.) Swap Floppy Drive Enabled changes the sequence of the A: and B: drives. (The Default setting is Disabled.) Boot Up Num Choose On or Off. On puts numeric keypad in Num Lock. Lock Status Mode at boot-up. Off puts this keypad in arrow key mode at boot-up. Boot Up System Choose High or Low. This option lets you choose system Speed bootup speed. The default is High. PS/2 Mouse function This option enables/disables the PS/2 Mouse. (The control Default Setting is Enabled) Gate A20 Option Choose Fast (default) or Normal. Fast allows RAM accesses above 1MB using the fast gate A20 line. Typematic Rate Set-Enable this option to adjust the keystroke repeat rate. ting Typematic Rate Choose the rate a character keeps repeating. (Chars/Sec) Typematic Delay Choose how long after you press a key that a character (Msec) begins repeating. Security Option Choose Setup or System. Use this feature to prevent unauthorized system boot-up or use of BIOS Setup. "System"-Each time the system is booted, the password prompt appears. "Setup"-If a password is set, the password prompt only

appears if you attempt to enter the Setup program.

PCI/VGA Palette Snoop The color of the monitor may be incorrect if uses

with MPEG card. Enable this option to make the

monitor normal.

Disabld: Default setting.

Enabled:

OS2:

OS Select for DRAM>64MB

Choose this when you are using OS/2 operation

system.

Non-OS/2: Choose this when you are using no-OS/2 opera-

tion system.

Video or Adapter BIOS Shadow BIOS shadow copies BIOS code from slower ROM to faster RAM. BIOS can then be executed from RAM. These 16K segments can be shadowed from ROM to RAM. BIOS is shadowed in a 16K segment if it is enabled and when it has BIOS present.

 After you have finished with the BIOS Features Setup program, press the 〈ESC〉 key and follow the screen instructions to save or disregard your settings.

Chipset Features Setup

The Chipset Features Setup option changes the values of the chipset registers. These registers control system options in the computer.

Note: Change these settings only if you are familiar with the Chipset.

Run the Chipset Features Setup as follows.

 Choose "CHIPSET FEATURES SETUP" from the Main Menu and the following screen appears. (The screen below shows default settings.)

> ROM PCI/ISA BIOS CHIPSET FEATURES SETUP AWARD SOFTWARE, INC.

Auto Configuration	1	Enabled	100 100 100 100	
DRAM Timing	UNION,	70 ns	DESCRIPTION OF THE PROPERTY.	
DRAM RAS# Precharge Time	2 1	4	In a little and the same	
DRAM R/W Leadoff Timing	- 1	7	to minority the unit	
Fast RAS# To CAS# Delay		2	Charles and the control of the	
DRAM Read Burst Timing		×222×333	THE TRANSPORT OF THE PROPERTY.	
DRAM Write Burts Timing		×222		
Fast MA to RAS# Delay CLK	1	1	in 122 in Pot dr. classe have	
Fast EDO Path Select	1	Enabled	A STATE OF THE PARTY OF THE PAR	
Refresh RAS# Assertion	11.50	4 CLKS	to be also to united in the own	
SA Bus CLock	:	PCICLK/4	A STATE OF THE PARTY OF T	
System BIOS Cacheable	1	Disabled		
Video BIOS Cacheable	1	Disabled	ESC: Quit	† ↓ → ←: Select Item
Bit I/O Recovery Time	:	1	F1: Help	PU/PD/+/-: Modify
6 Bit I/O Recovery Time		1	F5: Old Values	(Shift) F2: Color
Memory Hole At 15M-16M		Disabled	F6: Load BIOS Defaults	
Peer Concurrency		Enabled	F7: Load Setup Defaults	
Early NA Control		Enabled		

2. Use the arrow keys to move between items and select values. Modify selected fields using the PgUp/PgDn/+/-keys.

A short description of screen items follows:

Auto Configuration Enable this option (strongly recommended) and the

system automatically sets all options on the left side of the screen (except cache update mode & BIOS

cacheable).

If this option is Enabled you must boot from Turbo

mode.

DRAM Timing Choose the right speed to fit your DRAM's spec.

DRAM RAS Precharge Time Use the default setting.

DRAM R/W Leadoff Timing Use the default setting.

DRAM RAS to CAS Delay Use the default setting.

DRAM Read Burst Timing Use the default setting.

DRAM Write Burst Timing Use the default setting.

Fast MA to RAS # Delay CLK Use the default setting.

Fast EDO Path Select Use the default setting.

Refresh RAS # Assertion Use the default setting.

ISA Bus Clock Use BIOS default setting or choose:

/4: for 60, 66MHz CPU Bus Frequency /3: for 50, 55MHz CPU Bus Frequency.

System BIOS Cacheable Disabled: The ROM area F0000H-FFFFH is

not cached.

Enabled: The ROM area F0000H-FFFFFH is

cacheable if cache controller is enabled.

Video BIOS Cacheable Disabled: The video BIOS C0000H-C7FFFH is

not cached.

Enabled: The video BIOS C0000H-C7FFFH is

cacheable if cache controller is enabled.

8Bit I/O Recovery Time Use the default setting.

16Bit I/O Recovery Time Use the default setting.

Memory Hole At 15M-16M Choose Enabled or Disabled (default). Some inter-

face cards will map their ROM address to this area. If this occurs, you should select Enabled, otherwise

use Disabled.

Peer Concurrency Use the default setting.

Early NA Control Use the default setting.

Power Management Setup

The Power Management Setup option sets the system's power saving functions. Run the Power Management Setup as follows.

 Choose "POWER MANAGEMENT SETUP" from the Main Menu and a screen with a list of items appears.

ROM PCI/ISA BIOS POWER MANAGEMENT SETUP LAWARD SOFTWARE, INC.

Power Management :	Disabled	**	Power Down	& Resume Events	11177 100
PM Control by APM :	Yes	IRQ3	(COM 2)	: ON	
Video off Method :	V/HSYNC+Blank	IRQ4	(COM 1)	: ON	
MODEN USE IRQ :	3	IRQ5	(LPT 2)	: OFF	
		IRQ6	(Floppy Disk)	: OFF	
Doze Mode :	Disabled	IRQ7	(LPT1)	: OFF	
	Disabled	IRQ8	(RTC Alarm)	: OFF	
Suspend Mode :	Disabled .	IRQ9	(IRQ2 Redir)	: OFF	
HDD Power Down :	Disabled	IRQ10	(Reserved)	: OFF	
		IRQ11	(Reserved)	: OFF	
		IRQ12	(PS/2 mouse)	: OFF	
•• Wake Up Events In Doze &		IRQ13	(Coprocessor)	: OFF	
	ON	IRQ14	(Hard Dink)	: ON	
	ON	IRQ15	(Reserved)	: OFF	
	ON				THE PERSON
IRQ12 (Wake-Up Event) :	ON PERCHANISM		,	† ↓ → ←: Se PU/PD/+/ (Shift) F2: Co	-: Modify

2. Use the arrow keys to move between items and to select values. Modify the selected fields using the PgUp/PgDn/+/-keys.

A short description of selected screen items follows:

Power Management Options are as follows:

User Define Allows you define the HDD and system

power down times.

Disabled Disables the Green PC Features.

Min Saving Doze timer=1 Hour

Standby timer=1 Hour Suspend timer=1 Hour HDD Power Down=15 Min

Max Saving Doze timer=1 Min

Standby timer=1 Min Suspend timer=1 Min HDD Power Down=1 Min

PM Control by APM Choose No or Yes (default). APM stands for Advanced Power Management. To use APM, you must run "power.exe" under DOS v6.0 or later version.

Video Off Method Choose V/H Sync+Blank (default), Blank screen, or DPMS

for the selected PM mode.

Moden Use IRQ

The Moden IRQ us from 3/4/5/7/9/10/11/NA Default

Setting is IRQ3.

Doze Mode

When the set time has elapsed, the BIOS sends a command to the system to enter doze mode (system clock drops to 33MHz).

Time is adjustable from 1 Min to 1 Hour.

Standby Mode

The default is Disabled. Time is adjustable from 1 Min to 1

Hour.

Suspend Mode

The default is Disabled. Only an SL-Enhanced (or SMI) CPU can enter this mode. Time is adjustable from 1 Min to 1 Hour. Under Suspend mode, the CPU stops completely (no

instructions are executed.)

HDD Power

Down

When the set time has elapsed, the BIOS sends a command to the HDD to power down, which turns off the motor. Time is adjustable from 1 to 15 minutes. The default setting is Disabled. Some older model HDDs may not support this advanced function.

IRQx (Wake-Up Events) The BIOS monitors these items for activity. If activity occurs from the Enabled item the system wakes up.

Power Down Activities The BIOS monitors these items for no activity. If no activity occurs from the Enabled item the system will enter power saving mode (Doze/Standby/Suspend/HDD Power Down mode).

 After you have finished with the Power Management Setup, press the ⟨ESC⟩ key to return to the Main Menu.

PNP/PCI Configuration Setup

This option sets the mainboard's PCI Slots. Run this option as follows:

 Choose "PNP/PCI CONFIGURATION SETUP" from the Main Menu and the following screen appears. (The screen below shows default settings.)

> ROM PCI/ISA BIOS PNP/PCI CONFIGURATION AWARD SOFTWARE, INC.

Resources Controlled By	: Manual	PCI IRQ Actived By	: Level
Reset Configuration Data	: Disabled	PCI IDE IRQ Map To	: PCI-AUTO
		Primary IDE INT#	A STATE OF THE STA
IRQ-3 assigned to : Legacy ISA*		Secondary IDE INT#	. B
IRQ-4 assigned to : Legacy ISA*		, , , , , , , , ,	. B
IRQ-5 assigned to : PCL/ISA PnP*		Used MEM base addr	: C800
IRQ-7 assigned to : PCL/ISA PnP*		Used MEM Length	
IRQ-9 assigned to: PCI/ISA PnP*		Own Mishi Length	: 16K
IRQ-10 assigned to : PCI/ISA PnP*		ero i Ulifo di arrigina a la	
IRQ-11 assigned to : PCI/ISA PnP*			
IRQ-12 assigned to : PCL/ISA PnP*		THE RESERVE OF THE PARTY OF THE	
IRQ-14 assigned to : PCI/ISA PnP*		Marie Charles	
IRQ-15 assigned to : PCI/ISA PnP*		San Carlot P. Dinahetena T	
DMA-0 assigned to: PCI/ISA PnP*			
DMA-1 assigned to: PCI/ISA PnP*		PRO 0 :	
DMA-3 assigned to: PCI/ISA PnP*		ESC: Quit	† +: Select Item
DMA-5 assigned to: PCI/ISA PnPe		F1: Help	PU/PD/+/-: Modify
		F5: Old Values	(Shift) F2: Color
DMA-6 assigned to: PCL/ISA PnP* DMA-7 assigned to: PCL/ISA PnP*		F6: Load BIOS Defaults	
		F7: Load Setup Defaults	

- *: These items will disappear when Resource Controlled is Auto.
- 2. Use the arrow keys to move between items and select values. Modify selected fields using the PgUp/PgDn/+/-keys.

A short description of screen items follows:

Resources Con- Manual: BI

trolled By

: BIOS doesn't manage PCI/ISA PnP card (i.e.,

IRQ) automatically.

Auto:

BIOS auto manage PCI and ISA PnP card

(recommended).

Reset Con-

Disabled:

Retain PnP configuration data in BIOS.

figuration Data

Enabled:

Reset PnP configuration data in BIOS.

IRQX and DMAX assigned Choose PCI/ISA PnP or Legacy ISA. If the first item is set to Manual, you could choose IRQX and DMAX assigned to PCI/ISA PnP card or ISA card.

1 CD/15A Filir card of 15A card.

PCI/ISA PnP: BIOS auto assigns IRQ/DMA to the device.

Legacy ISA: User assigns IRQ/DMA to the device.

PCI IRQ Activated By Choose Edge or Level. Most PCI trigger signals are Level.

This setting must match the PCI card.

PCI IDE IRQ Map To Select PCI-AUTO, ISA, or assign a PCI SLOT number (depending on which slot the PCI IDE is inserted). The default setting is PCI-AUTO. If PCI-AUTO does not work, then assign an individual PCI SLOT number.

Primary IDE INT# Choose INTA#, INTB#, INTC#, or INTD#. The default

setting is INTA#.

Secondary IDE

Choose INTA#, INTB#, INTC#, or INTD#. The default

INT# setting is INTB#.

 After you have finished with the PCI Slot Configuration, press the (ESC) key and follow the screen instructions to save or disregard your settings.

Load Setup Defaults

This item loads the system values you have previously saved. Choose this item and the following message appears:

"Load SETUP Defaults (Y/N)? N"

To use the SETUP defaults, change the prompt to "Y" and press (Enter).

This item is recommended if you need to reset the system setup.

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Integrated Peripherals

The Integrated Peripherals option changes the values of the chipset registers. These registers control system options in the computer.

Note: Change these settings only if you are familiar with the Chipset.

Run the Integrated Peripherals as follows.

 Choose "Integrated Peripherals" from the Main Menu and the following screen appears. (The screen below shows default settings.)

ROM PCI/ISA BIOS INTEGRATED PERIPHERALS AWARD SOFTWARE, INC.

IDE HDD Block Mode IDE Primary Master PIO IDE Primary Slave PIO IDE Secondary Master PIO IDE Secondary Master PIO On-Chip Primary PCI IDE On-Chip Secondary PCI IDE	: Auto : Auto : Auto : Enabled : Enabled	a or appear to it is bouse INTA to the second	
PCI Slot IDE 2nd Channel USB Controller	: Enabled : Disabled	ESC: Quit	↑ ↓ → ←: Select Item
Onboard FDD Controller Onboard Serial Port 1	: Enabled : COM1/3F8	F1: Help F5: Old Values	PU/PD/+/-: Modify (Shift) F2: Color
Onboard Serial Port 2	: COM2/2F8	F6: Load BIOS Defaults	(Charty's as Conor
Onboard Parallel Port Parallel MODE	: 378H/IRQ7 : Normal	F7: Load Setup Defaults	

 Use the arrow keys to move between items and select valus. Modify selected fields using the PgUp/PgDn/+/-keys.

A short description of screen items follows:

IDE HDD Block Mode	Choose Enabled (default) or Disabled. Enabled invokes multi-sector transfer instead of one sector per transfer. Not all HDDs support this function
IDE Primary Master PIO IDE Primary Slave PIO IDE Secondary Master PIO IDE Secondary Slave PIO	Choose Auto (default) or mode 0~4. Mode 0 is the slowest speed, and HDD mode 4 is the fastest speed. For better performance and stability, we suggest you use the Auto setting to set the HDD control timing.
On-chip Primary PCI IDE	Enabled: Use the on-board IDE (default)

BIOS SOFTWARE

On-chip Secondary PCI IDE Disabled: Turn off the on-board IDE

PCI Slot IDE 2nd Channel Choose Enabled (default) or Disabled. When

Enabled is set, IRQ15 is dedicated for secondary IDE use. When Disabled is set, IRQ15 is released

for other devices.

USB Controller Enabled it when you use USB device.

Onboard FDC Controller Enabled: Use the on-board floppy controller

(default).

Turn off the on-board floppy control-Disabled:

Onboard Serial Port 1 Choose serial port 1 & 2's I/O address. Do no set Onboard Serial Port 2

port 1 & 2 to the same value except for Disabled.

COM 1/3F8H COM3/3E8H COM 2/2F8H COM4/2E8H

(default)

Onboard Parallel Port Choose the printer I/O address:

378H/IRQ7 (default), 3BCH/IRQ7, 278H/IRQ5

Onboard Printer Mode Choose ECP+EPP, EPP, ECP, Normal (default),

mode. The mode depends on your external de-

vice that connects to this port.

Supervisor Password

Based on the setting you made in the "Security Option" of the "BIOS FEATURES SETUP", this Main Menu item permits you configure the system so that a password is required every time the system boots up or an attempt is made to enter the Setup program. Change the password as follows:

Choose "SUPERVISOR PASSWORD" in the Main Menu and press Entero.
 The following message appears:

"Enter Password:"

2. Enter a password and press (Enter).

(If you do not wish to use the password function, you can just press (Enter and a "Password Disabled" message appears.)

After you enter your password, the following message appears prompting you to confirm the new password:

"Confirm Password:"

- 4. Re-enter your password and then Press (ESC) to exit to the Main Menu.
- You have the right to change any changeable settings in the "CMOS SETUP UTILITY."

Important: Keep a safe record of the new password. If you forget or lose the password, the only way to access the system is to discharge CMOS memory using jumper JP20.

User Password

Based on the setting you made in the "Security Option" of the "BIOS FEATURES SETUP", this Main Menu item allows you configure the system so that a password is required every time the system boots up or an attempt is made to enter the Setup program. Change the password as follows:

1. Choose "USER PASSWORD" in the Main Menu and press (Enter). The following message appears:

"Enter Password:"

2. Enter a password and press Enter.

(If you do not wish to use the password function, you can just press (Enter and a "Password Disabled" message appears.)

3. After you enter your password, the following message appears prompting you to confirm the new password:

"Confirm Password:"

- 4. Re-enter your password and then Press (ESC) to exit to the Main Menu.
- You are not allowed to change any settings in "CMOS SETUP UTILITY", except to change the user's password.

Important: Keep a safe record of the new password. If you forget or lose the password, the only way to access the system is to discharge CMOS memory using jumper JP20.

IDE HDD Auto Detection

This Main Menu item automatically detects the hard disk type and configures the STANDARD CMOS SETUP accordingly.

Note:

This function is only valid for IDE hard disks.

ROM PCI/ISA BIOS CMOS SETUP UTILITY AWARD SOFTWARE, INC.

HARD DISKS	Т	YPE	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE
Primary Master		None	0	0	0	0	0	0	***
Primary Slave	:	None	0	0	.0	0	0	0	111
Secondary Master	:	None	0	0	0	0	0	0	***
Secondary Slave	a i	None	0	0	0	0	0	0	(17.70)
			Do you a	scept this dr	ive C (Y/N)?N			
				ESC :	Skip				

Jumper setting For P55C(MMX)

	-	
CDI	Type	
1. 1.	IVIDE	

CPU TYPE	* P54C,Cyrix 6X86 ,AMD	P55C(MMX),Cyrix 6X86L
JP7 JP15	JP7	OO JP7

P55C(MMX)	P54C	JP10 /JP11	JP3/JP4
NA	75MHz (50MHz X 1.5)	OO JP10 OO JP11	OO JP4 OO JP3
NA	90MHz (60MHz X 1.5)	OO JP10 OO JP11	JP4 JP3
233MHz (66MHz X 3.5)	100MHz (66MHz X 1.5)	OO JP10 OO JP11	JP4 JP3
NA	120MHz (60MHz X 2)	○○ JP10 ●● JP11	JP4
NA	*133MHz (66MHz X 2)	OO JP10	JP4
NA	150MHz (60MHz X 2.5)	JP10	OO JP4
166MHz (66MHz x 2.5)	166MHz (66MHz x 2.5)	JP10	JP4
200MHz (66MHz X 3)	200MHz (66MHz X 3)	JP10 OO JP11	JP4

CPU Voltage

CPU TYPE	P54C/K5	6X86	P55C(MMX)/K6/6X86L
VOLTAGE	*3.3V	3.52V	2.8~2.9V
JP16	3 0 1	3 000 1	3 0001
JP17	00	00	●