
EXP8059P
(PHOENIX BIOS)
P54C 90/100MHZ
ALI M1449/M1461
PCI HOST
USER'S MANUAL

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RMA FORM

CHAPTER 1 INTRODUCTION

1.1 OVERVIEW

The *EXP8059* is complemented by a 1M second-level Write-Back cache providing workstation level computing performance, and SIMM sockets support up to 128MB of DRAM.

The *EXP8059* motherboard offers outstanding I/O capabilities. Four PCI Local Bus slots provide a high bandwidth data path for data-movement intensive function such as Graphics. Three ISA slots complete the I/O mix.

The *EXP8059* Baby-AT motherboard provides the foundation for cost effective, high performance, highly expandable platforms which deliver the latest *EXP8059* in CPU and I/O technologies.

1.2 SYSTEM FEATURES

- Supports INTEL P54C
- Supports 4 MASTER 32-bit PCI Bus
- Supports L1/L2 Write Back/Write Through Cache Feature
- Supports 256KB/ 512KB /1M Cache Size
- Supports 72pin SIM MODULES

1.3 SYSTEM SPECIFICATIONS

Processor :	INTEL P54C
CPU Clock :	90/100 MHz CPU
Memory :	2MB to 128MB
SRAM Configuration :	256K/512K/1M
BIOS Subsystem :	PHOENIX/AWARD BIOS
Additional BIOS Feature :	Set Program Resides in ROM
I/O Subsystem No. Slot :	Three 16-bit ISA Bus Four PCI 32-bit Bus
Dimension :	Baby AT Size

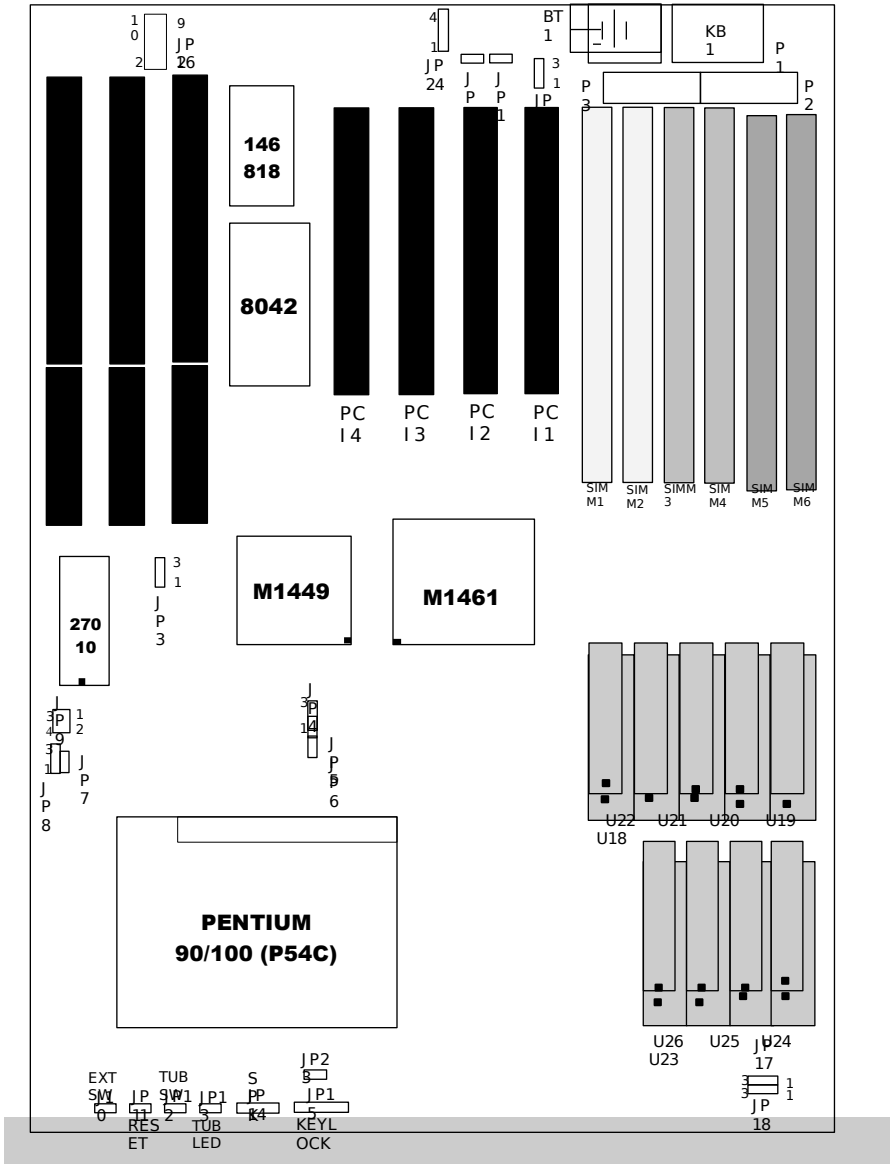
Additional Features

Miscellaneous Connectors : Reset Button, Internal Battery
Board Design : 4-layer Implementation for Low Noise Operation

1.4 SYSTEM PERFORMANCE

SOFTWARE CPU TYPE	LANDMARK V2.0	POWER METER V1.8 MIPS	NORTON V8.0 CPU SPEED
90MHz	519.36MHz	40.60MIPS	285.20
100MHz	574.47MHz	45.10MIPS	315.40

1.5 EXP8059 BOARD LAYOUT



CHAPTER 2

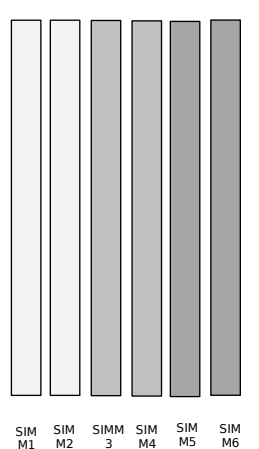
INSTALLATION

Before the system is ready to operate, the hardware must be set up for various functions of the system. To set up the *EXP8059* motherboard is a simple task. The user only has to set a few jumpers, connectors and sockets.

2.1 DRAM INSTALLATION

The *EXP8059* motherboard can support expanded memory from 2MB to 128MB.

v The board layout below shows the locations of the DRAM memory banks :

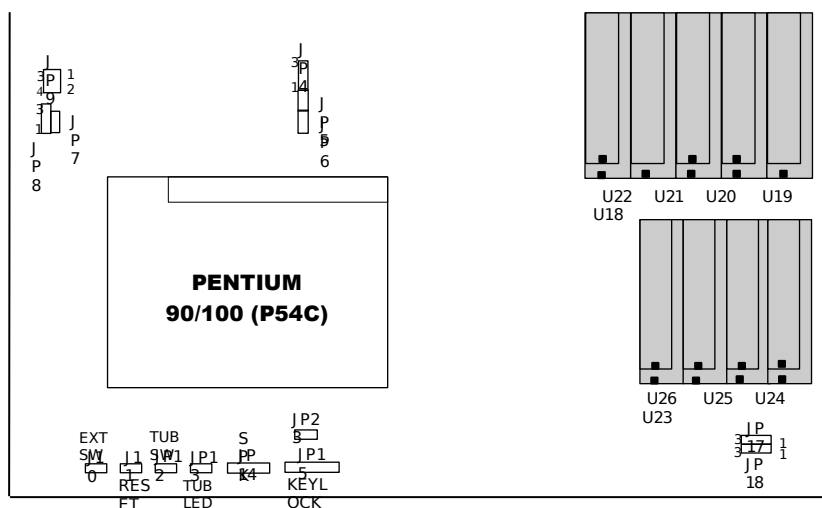


DRAM INSTALLATION

$$\boxed{\text{SIMM1+SIMM2}} + \boxed{\text{SIMM3+SIMM4}} + \boxed{\text{SIMM5+SIMM6}} = \boxed{\text{TOTAL}}$$

Each group includes two SIMMs each SIMM size can be 1, 2, 4, 8, 16, 32MB, please install the same DRAM size in one group.

2.2 SRAM INSTALLATION

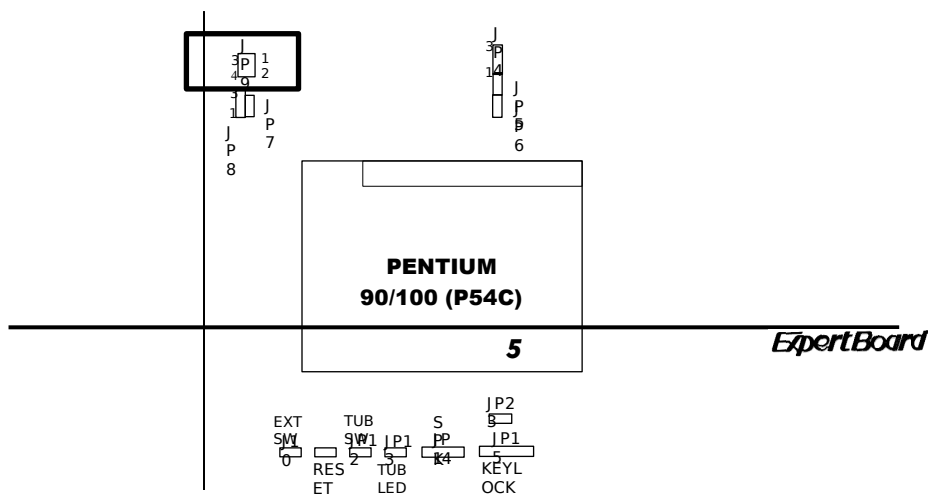


CACHE SIZE CONFIGURATION

256K ♦		512K		1M	
TAG RAM	DATA RAM	TAG RAM	DATA RAM	TAG RAM	DATA RAM
U22 8KX8	U18-U21 U23-U26 32KX8	U22 32KX8	U18-U21 U23-U26 64KX8	U22 32KX8	U18-U21 U23-U26 128KX8
JP1 3 2 1 JP1 3 2 1		JP1 3 2 1 JP1 3 2 1		JP17 3 2 1 JP18 3 2 1	




♦ : Default Setting

2.3 CPU INSTALLATION



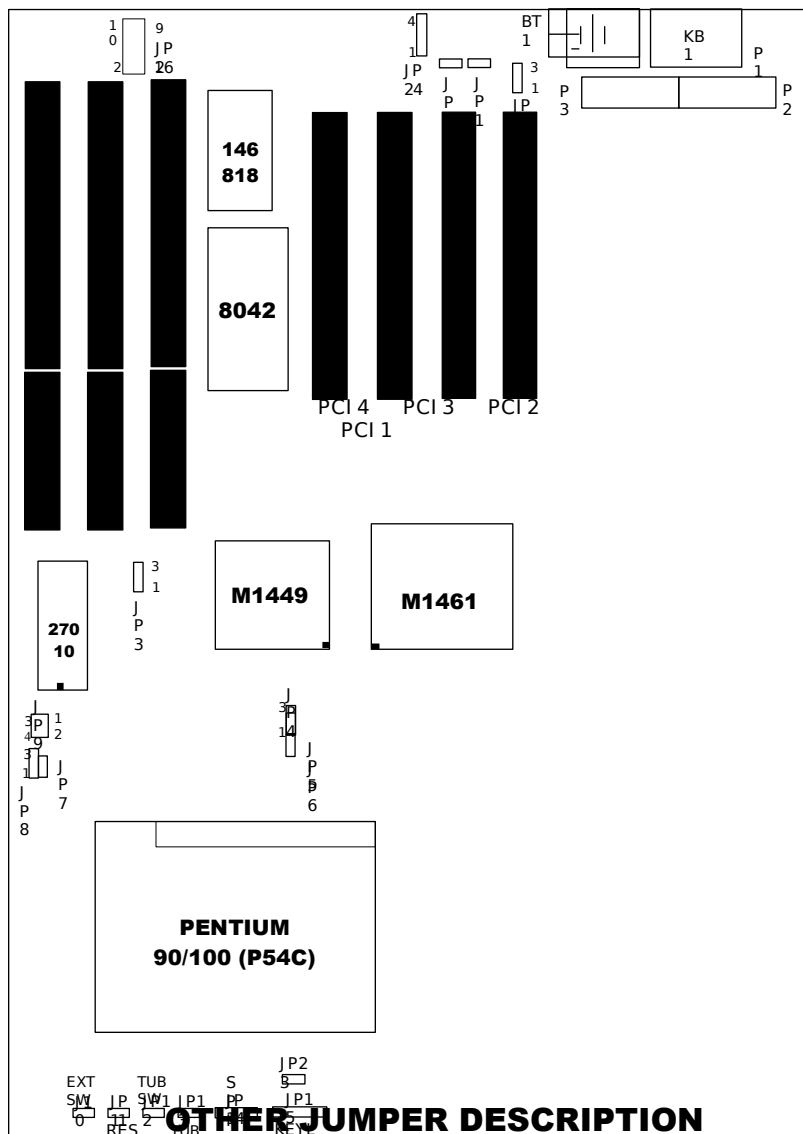
JP
11

CPU FREQUENCY SETTING







P54C 75 MHz	P54C 90 MHz◆	P54C 100 MHz
		

◆ : Default Setting

2.4 OTHER JUMPER & CONNECTOR INSTALLATION



JUMPER	DESCRIPTION	
JP1		
JP2	NORMA NORMAL RTC ♦	 BUILD IN BATTERY RTC

JP3	 POWER SUPPLY ♦	 POWER GOOD COMES FROM LM393
JP4	 NORMA	 DELAY
JP8	 L ♦ NORMAL ROM	 ADS# FLASH ROM

♦ : Default Setting

CONNECTOR DESCRIPTION

CONNECTOR	PIN OUT	SIGNAL NAME
JP15 : KEY LOCK	1	LED POWER
	2	NOT USED
	3	GROUND
	4	KEYBOARD INHIBITOR
	5	GROUND
JP14 : SPEAKER	1	DATA OUT
	2	NOT USED
	3	GROUND
	4	+5V DC
JP11 : RESET	1	GROUND
	2	RESET IN
P1: KEYBOAR D CONNECT OR	1	KEYBOARD CLOCK
	2	KEYBOARD DATA
	3	SPACE
	4	GROUND
	5	+5V
P2 : POWER CONNECT OR	1	POWER GOOD
	2	+5V DC
	3	+12V DC
	4	-12V DC
	5,6,7,8	GROUND
	9	-5V DC
	10,11,12	+5V DC
J24	1 2 3 4	2-3 : N.C. , 1-4 : EXTERNAL BATTERY
JP7		CLOCK GENERATOR PWR DOWN GRADE
JP16		2-3 NORMAL
JP26		EXTERNAL POWER SAVING CONNECTOR 1-2 FOR VGA V-SYNC 3-4 FOR VGA H-SYNC 5-6 FOR MONITOR POWER 7-8 FOR POWER FAN 9-10 RESERVED

CHAPTER 3 SYSTEM BIOS SETUP

PHOENIX BIOS SYSTEM CONFIGURATION SETUP

Use the *EXP8059* to record changes in your hardware and to control its special features. The setup program uses a number of menus in

which you can specify changes to your hardware and turn the special features on or off.

1. To start the *EXP8059* setup program, take the following steps:

Press to enter setup while turning on or rebooting your system.

The Phoenix BIOS for EXP8059 displays this message:

2. The Main Menu which looks like this appears:

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

MAIN MENU			
<ul style="list-style-type: none">• System Setup• Fixed Disk Setup• Advanced System Setup• Boot Options• Security and Anti-Virus• Green PC Features			
Load ROM Default Values			
Load Values from CMOS			
Save Values to CMOS			
↓ Move	Enter Select		
F1 Help	ESC Exit	F10	Save &
Exit			

3. Select an option by moving the highlight with your up-and-down arrow keys and press. <Enter>.

4. After making your changes, select Save Values to CMOS to make them operative. Press <Esc> to exit the setup program. The following pages describe each one of these selections.

3.1 SYSTEM SETUP

Selecting "**System Setup**" on the Main Menu displays this menu:

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

SYSTEM SETUP	
System Time:	[14:29:46]
System Date:	[10/19/1994]
Video System:	[EGA / VGA]
System Memory:	640 KB

Extended Memory:	7 MB
Diskette Drive A:	[1.44 MB, 3.5"]
Diskette Drive B:	[Not Installed]
Keyboard:	[Not Installed]

↓ Move	ESC	Exit	PgUp	Previous Value
	F5	Previous Configuration		
	F1	Help	PgDn	Next Value
			F6	Default Configuration

3.2 FIXED DISK SETUP

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

MAIN MENU			
<ul style="list-style-type: none">• System Setup• Fixed Disk Setup• Advanced System Setup• Boot Options• Security and Anti-Virus• Green PC Features			
Load ROM Default Values Load Values from CMOS Save Values to CMOS			
↓ Move	Enter Select	F10	Save &
F1 Help	ESC Exit		
Exit			

Selecting "**Fixed Disk Setup**" on the Main Menu displays this menu:

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

FIXED DISK SETUP			
541MB)	IDE Adapter 0	Master	(C:)
	IDE Adapter 0	Slave	(None)
	Large Disk Access Mode: [DOS]		
↓ Move	Enter Select	F10	Save &
F1 Help	ESC Exit		
Exit			

Selecting either option and pressing <Enter> displays a menu like this:

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

IDE ADAPTER 0 MASTER (C: 541MB)	
Autotype Fixed Disk:	[Press Enter]
Type:	[User] 541 MB
Cylinders:	[1120]
Heads:	[16]
Sectors / Track:	[59]
Write Precomp:	[None]

Multi-Sector Transfers:	[Disabled]
LBA Mode Control:	[Disabled]
32 Bit I / O:	[Disabled]
Transfer Mode:	[Standard]
↓ Move	Enter Select
F1 Help	ESC Exit
Exit	F10 Save & Exit

3.3 ADVANCED SYSTEM SETUP

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

MAIN MENU	
<ul style="list-style-type: none"> • System Setup • Fixed Disk Setup • Advanced System Setup • Boot Options • Security and Anti-Virus • Green PC Features 	
Load ROM Default Values	
Load Values from CMOS	
Save Values to CMOS	
↓ Move	Enter Select
F1 Help	ESC Exit
	F10 Save & Exit

Selecting **“Advanced System Setup”** from the Main Menu displays the following menu:

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

ADVANCED SYSTEM SETUP	
<p>Warning!</p> <p>Items on this menu, if set incorrectly, could cause your system to malfunction.</p>	
<ul style="list-style-type: none"> • Memory Cache • Memory Shadow • Advanced Chipset Control • PCI Devices 	
↓ Move	Enter Select
F1 Help	ESC Exit
Exit	F10 Save & Exit

Choose an option and press <Enter>. See the following pages for a description of each feature and its options.

3.3.1 Memory Cache

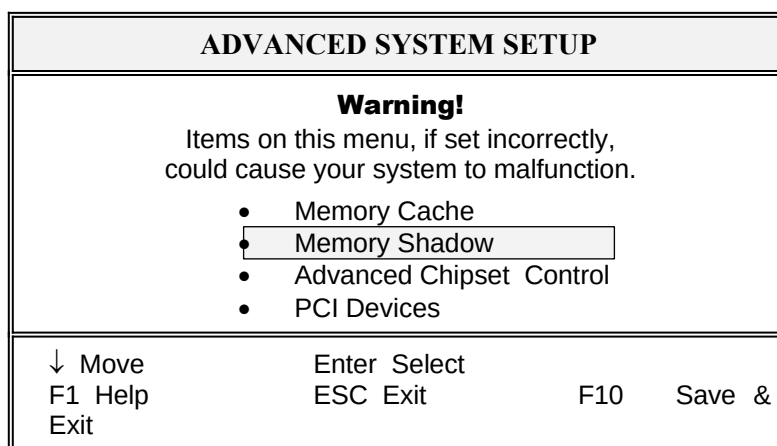
Selecting "**Memory Cache**" from the Advanced Setup menu displays a menu like the one shown here. The actual features displayed depend on the capabilities of your system's hardware.

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

MEMORY CACHE			
External Cache:		[Enabled]	
External Cache Method:		[Write-Back]	
External Cache Write Timing:		[Normal]	
External Cache Read Timing:		[Normal]	
Cache Hit Sampling Time:		[Normal]	
PCI FEATURES			
PCI Master Cycles:		[Normal]	
↓ Move	ESC Exit	PgUp	Previous
Value	F5 Previous Configuration		
Configuration	F1 Help PgDn Next Value	F6	Default

3.3.2 Memory Shadow

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.



Selecting **"Memory Shadow"** from the Advanced Setup menu displays a menu like the one shown here. The actual features displayed depend on the capabilities of your system's hardware.

MEMORY SHADOW	
System Shadow:	[Enabled]
Video Shadow:	[Enabled]
Shadow Memory Regions:	
[Disabled]	C800 - CBFF:
[Disabled]	CC00 - CFFF:
[Disabled]	D000 - D3FF:
[Disabled]	D400 - D7FF:
[Disabled]	D800 - DBFF:
[Disabled]	DC00 - DFFF:
[Disabled]	E000 - E3FF:
[Disabled]	E400 - E7FF:
[Disabled]	E800 - EBFF:
[Disabled]	EC00 - EFFF:
↓ Move ESC Exit PgUp Previous Value F5 Previous Configuration	
F1 Help PgDn Next Value F6 Default Configuration	

3.3.3 Advanced Chipset Control

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

ADVANCED SYSTEM SETUP			
<p>Warning! Items on this menu, if set incorrectly, could cause your system to malfunction.</p> <ul style="list-style-type: none"> • Memory Cache • Memory Shadow • Advanced Chipset Control • PCI Devices 			
↓ Move	Enter Select	F10	Save &
F1 Help	ESC Exit		
Exit			

Selecting "**Advanced Chipset Control**" from the Advanced Setup menu displays a menu like the one shown here.

Technicians use this menu to change the values in the chipset registers and optimize your system's performance.

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

ADVANCED CHIPSET CONTROL			
DRAM Timing:		[Normal]	
DRAM Refresh Period:		[2048 us]	
DRAM Hidden Refresh:		[Disabled]	
CPU Piped Address:		[Disabled]	
↓ Move	ESC Exit	PgUp Previous Value	F5 Previous Configuration
	F1 Help	PgDn Next Value	F6
Default Configuration			

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

ADVANCED CHIPSET CONTROL		
PCI FEATURES		
CPU/PCI Write Buffer:		[Enabled]
CPU/PCI Write-Byte-Merge:		[Enabled]
CPU/PCI Write-Fast:		[Disabled]
CPU/PCI Write-Burst:		[Disabled]
CPU/PCI Read Buffer:		[Disabled]
PCI Read-Line Command:		[Disabled]
CPU/PCI Burst Read:		[Disabled]
PCI/CPU Write Buffer:		[Enabled]

PCI/CPU Read Buffer:	[Disabled]
PCI Cycle Decoding:	[Normal]
PCI/CPU Wait State:	[1 ws]
Burst on Non-Bufferable Cycle:	[Disabled]
Flash PCI/CPU Buffer:	[Enabled]
BRIDGE FEATURES	
DMA Line Buffer:	[Disabled]
ISA Line Buffer:	[Disabled]
PCI Posted Write Buffer:	[Disabled]
Arbiter Bus Lock:	[Disabled]
Arbiter Bus Park:	[Enabled]
DMA Write Cycle Timing:	[Normal]
ISA Clock Select:	[CLK2/8]
I/O Recovery:	[Disabled]
I/O Recovery Period:	[1 us]
ISA I/O Cmd Wait Count:	[Normal]
ISA Memory Cmd Wait Count:	[Normal]
Refresh Period:	[15 us]
↓ Move ESC Exit PgUp Previous Value F5 Previous Configuration F1 Help PgDn Next Value F6 Default Configuration	

NOTE: The contents of this menu depends on the chipset installed on your motherboard, and chipsets vary widely. Consult your dealer or the <F1> help screens before changing the items on this menu. Incorrect settings can cause your system to malfunction.

3.3.4 PCI Devices

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

ADVANCED SYSTEM SETUP			
<p>Warning!</p> <p>Items on this menu, if set incorrectly, could cause your system to malfunction.</p> <ul style="list-style-type: none"> • Memory Cache • Memory Shadow • Advanced Chipset Control • PCI Devices 			
↓ Move	Enter Select	F10	Save &
F1 Help	ESC Exit		
Exit			

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

PCI DEVICES	
Base I/O Address:	[3000]
Base Memory Address:	[008000000]
Multimedia Mode:	[Disabled]



Parity:	[Disabled]
PCI Interrupt INTB#:	[None]
PCI Interrupt INTC#:	[None]
PCI Interrupt INTD#:	[None]
PCI INT-1 Level/Edge Selection:	[Edge]
PCI INT-2 Level/Edge Selection:	[Edge]
PCI INT-3 Level/Edge Selection:	[Edge]
PCI INT-4 Level/Edge Selection:	[Edge]
PCI INT-5 Level/Edge Selection:	[Edge]
PCI INT-6 (INTB#) Level/Edge Selection:	[Edge]
↓ Move ESC Exit PgUp Previous Value F5 Previous Configuration F1 Help PgDn Next Value F6 Default Configuration	

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

PCI DEVICES	
PCI INT-7 (INTC#) Level/Edge Selection:	[Edge]
PCI INT-8 (INTD#) Level/Edge Selection:	[Edge]
PCI Device, Slot #1:	
Enable Device:	[Disabled]
Enable Master:	[Disabled]
Use Default Latency Timer Value:	[Yes]
Latency Timer Value:	[0040]
IRQ Line:	[None]
PCI Device, Slot #2:	
Enable Device:	[Disabled]
Enable Master:	[Disabled]
Use Default Latency Timer Value:	[Yes]
Latency Timer Value:	[0040]
IRQ Line:	[None]
↓ Move ESC Exit PgUp Previous Value F5 Previous Configuration F1 Help PgDn Next Value F6 Default Configuration	

PCI DEVICES	
PCI Device, Slot #3:	
Enable Device:	[Disabled]
Enable Master:	[Disabled]
Use Default Latency Timer Value:	[Yes]
Latency Timer Value:	[0040]
IRQ Line:	[None]
PCI Device, Slot #4:	
Enable Device:	[Disabled]
Enable Master:	[Disabled]
Use Default Latency Timer Value:	[Yes]
Latency Timer Value:	[0040]
IRQ Line:	[None]
↓ Move	ESC Exit
Configuration	PgUp Previous Value
	F5 Previous Configuration
	F1 Help
Configuration	PgDn Next Value
	F6 Default Configuration

NOTE: The number of PCI device slots depends on motherboard specifications. When you install PCI IDE card on any PCI slot, you must set that slot's IRQ line [14] and [Enabled Device] [Enable Master] items must set Enable.

3.4 BOOT OPTIONS

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

MAIN MENU		
•	System Setup	
•	Fixed Disk Setup	
•	Advanced System Setup	
•	Boot Options	
•	Security and Anti-Virus	
•	Green PC Features	
	Load ROM Default Values	
	Load Values from CMOS	
	Save Values to CMOS	
↓ Move	Enter Select	
F1 Help	ESC Exit	F10 Save & Exit

Selecting "**Boot Options**" from the Main Menu displays this menu:

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

BOOT OPTIONS						
Boot Sequence: [A:then C:]						
↓ Move	ESC Exit	PgUp	Previous Value	F5	Previous	Configuration
	F1 Help	PgDn	Next Value	F6		Default Configuration

3.5 SECURITY AND ANTI-VIRUS

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

MAIN MENU	
•	System Setup
•	Fixed Disk Setup
•	Advanced System Setup
•	Boot Options
•	Security and Anti-Virus
•	Green PC Features

Load ROM Default Values			
Load Values from CMOS			
Save Values to CMOS			
↓ Move	Enter Select		
F1 Help	ESC Exit	F10	Save &
Exit			

Selecting "**Security and Anti-Virus**" from the Main Menu displays a menu like this:

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

SECURITY AND ANTI-VIRUS	
Supervisor Password is:	Disabled
User Password is:	Disabled
Set Supervisor Password:	[Press Enter]
Set User Password:	[Press Enter]
Password on Boot:	[Disabled]
Diskette Access:	[Supervisor]
Fixed Disk Boot Sector:	[Normal]
↓ Move	ESC Exit PgUp Previous Value F5 Previous Configuration
F1 Help	PgDn Next Value F6 Default Configuration

"Supervisor Password is" shows whether supervisor password is set or not. **"User Password is"** shows whether user password is set or not. Setting Supervisor Password requires a password on entering Setup. The passwords are not case sensitive. Pressing <Enter> at either Set Supervisor Password or Set User Password displays a dialog box like this:

SET SUPERVISOR PASSWORD	
Enter New Password:	[]
Re-enter New Password:	[]
Enter Accept	

SET USER PASSWORD	
Enter New Password:	[]
Re-enter New Password:	[]
Enter Accept	

NOTICE
Changes have been saved. [Continue]

3.6 GREEN PC FEATURES

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

MAIN MENU
<ul style="list-style-type: none">• System Setup• Fixed Disk Setup• Advanced System Setup• Boot Options• Security and Anti-Virus• Green PC Features <p>Load ROM Default Values Load Values from CMOS Save Values to CMOS</p>
↓ Move Enter Select F1 Help ESC Exit F10 Save & Exit

Selecting " **Green PC Features** " on the main menu displays an information window like this:

GREEN PC FEATURES	
Power Saving Mode:	[Enabled]
System Doze Timer:	[10 sec]
System Standby Timer:	[10 sec]
System Suspend Timer:	[10 sec]
Wakeup System During Suspend:	[Disabled]
Wakeup Time at (hour):	[0 hr]
Wakeup Time at (minute):	[0 min]
Hard Disk Standby Timer:	[Disabled]
Video Standby Timer:	[Disabled]
VGA With Power Down Feature:	[None]
Advanced Power Management Setup	
System Enters Power Down/Wakeup Modes By:	
VGA Access Event:	[Off]
IRQ 1	(Keyboard):
[On]	
IRQ 3	(COM2): [On]
IRQ 4	(COM1): [On]
IRQ 5	(Alt Printer):
[On]	
IRQ 6	(Diskette): [On]
IRQ 7	(Printer): [On]
IRQ 9	(IRQ2 Redir):
[On]	
IRQ10	(Reserved):
[On]	
IRQ11	(Reserved):
[On]	
IRQ12	(PS/2 Mouse):
[On]	
IRQ14	(Fixed Disk):
[On]	
IRQ15	(Reserved):
[On]	
DMA1(LAN Card) :	[On]
DMA3(LAN Card) :	[On]
LPT IO Address:	[On]
PCI Master Event:	[Off]
↓ Move ESC Exit PgUp Previous Value F5 Previous Configuration	
F1 Help PgDn Next Value F6 Default Configuration	

3.7 LOAD ROM DEFAULT VALUES

MAIN MENU

<ul style="list-style-type: none">• System Setup• Fixed Disk Setup• Advanced System Setup• Boot Options• Security and Anti-Virus• Green PC Features <p>Load ROM Default Values Load Values from CMOS Save Values to CMOS</p>		
↓ Move F1 Help	Enter Select ESC Exit	F10 Save & Exit

Selecting "**Load ROM Default Values**" on the Main Menu displays this menu:

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

NOTICE
Default values have been loaded. [Continue]

3.8 LOAD VALUES FROM CMOS

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

MAIN MENU		
<ul style="list-style-type: none">• System Setup• Fixed Disk Setup• Advanced System Setup• Boot Options• Security and Anti-Virus• Green PC Features <p>Load ROM Default Values Load Values from CMOS Save Values to CMOS</p>		
↓ Move F1 Help	Enter Select ESC Exit	F10 Save & Exit

Selecting " **Load Values from CMOS** " on the Main Menu displays this menu:

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

NOTICE
Previous values have been loaded. [Continue]

3.9 SAVE VALUES TO CMOS

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

MAIN MENU
<ul style="list-style-type: none">• System Setup• Fixed Disk Setup• Advanced System Setup• Boot Options• Security and Anti-Virus• Green PC Features Load ROM Default Values Load Values from CMOS <input type="button" value="Save Values to CMOS"/>
↓ Move Enter Select F1 Help ESC Exit F10 Save & Exit

Selecting " **Save Values to CMOS** " on the Main Menu displays this menu:

Phoenix BIOS Setup - Copyright 1985-94 Phoenix Technologies Ltd.

NOTICE
Changes have been saved. [Continue]

RMA FORM

When the motherboard can not work well, please fill up this form to describe related situations. If the space is not enough to use, you can attach separate paper.

MODEL:

MODEL NO:

HARDWARE

CPU: Brand _____, Model _____, Speed _____ MHz

CO-PROCESSOR: Brand _____, Model _____, Speed _____ MHz

SIMM: Brand _____, Speed _____ ns, Q'ty _____ pcs, Total _____ MB

CACHE: Brand _____, Speed _____ ns, Total _____ K

TAG RAM: Brand _____, Speed _____ ns

BIOS DATE CODE: _____

SYSTEM SPEED RUNNING _____ MHz

VIDEO CARD: Chip _____, RAM _____, VGA Mode _____
Bus _____ (ISA, VESA or PCI)

OTHER ADD-ON CARDS:

SOFTWARE

OPERATING SYSTEM _____ VERSION

SOFTWARE _____ PROGRAM

BIOS SETUP: DRAM Wait State _____ CACHE Wait State _____

If you change BIOS SETUP, please describe the changes:

<A> ERROR

HANG UP ERROR NO SCREEN FLOPPY R/W

HARD DISK R/W ERROR
 MEMORY ERROR

PARITY
 OTHER

** ERROR MESSAGES ON YOUR SCREEN (PLEASE SHOW US THE WHOLE SENTENCE)**

<C> PROBLEM DESCRIPTION