GA-6TXSL-RH Intel[®] Core i7 Series Processor Motherboard

USER'S MANUAL

Intel[®] Core[™]2 Quad processorMotherboard Rev. 1001



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Product Manual Classification

In order to assist in the use of this product, Gigabyte has categorized the user manual in the following:

- For detailed product information and specifications, please carefully read the "Product User Manual".
- For detailed information related to Gigabyte's unique features, please go to "Technology Guide" section on Gigabyte's website to read or download the information you need.

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Item Checklist

- ☑ The GA-6TXSL-RH motherboard
- Floppy cable
- ☑ CD for motherboard driver & utility
- GA-6TXSL-RH Quick Reference Guide
- Serial ATA cable x 6
- I/O Shield Kit
- SATA Power cable x 6
- ☑ USB+1394 cable x 1



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

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Chapter 1 Introduction

1.1 Features Summary

Form Factor	• 12" x 9.6"(3.5cm X 24.4cm) ATX form factor, 6 layers PCB.
CPU	 Supports single Intel[®] Core i7 processor
	 Intel[®] Dual Core/Quad Core in LGA 1366 socket
	 L3 cache varies with CPU up to 12M
Chipset	 Intel[®] X58 IOH Chipset
	 Intel[®] 82801JR ICH10 RAID
Memory	6 x DDR3 DIMM sockets
	 Supports up to 24GB DDR3 1066/1333 MHz memory
	Triple Channel memory bus
QPI	• 4.8GT/s, 5.6GT/s, 6.4AGT/s
I/O Control	ITE IT8720 Super I/O Support
Expansion Slots	 Supports 1 PCI-Express x16 slot Run at X16
	 Supports 1 PCI-Express x16 slot Run at X8
	 Supports 1 PCI-Express x8 slot
	 Supports 2 PCI-Express x4 slot
	 Supports 1 PCI slots 32-Bit/33MHz
SATA Controller	 Built in Intel[®] 82801JR ICH10 RAID with Software RAID 0,1,10, 5
	 Supports 6 SATA 3.0 Gb/s connectors
On-Board Sound	 Relteak[®] ALC 889A Chipset
	High Definition Audio
	• 2/4/5.1/7.1-channel
On-BoardIEEE 1934	• TI TSB43AB23
	 1 x 1394a box headers

GA-6TXSL-RH Motherboard

On-Board LAN	 Intel[®] 82567LM GbE controller
	 Supports WOL, PXE
On-Board Peripherals	 1 x Floppy connector
	• 2 x PS/2 connectors
	 1 x Parallel port supports Normal/EPP/ECP mode
	• 2 x Serial port (COM)
	 2 x IEEE 1394 connectors
	 8 x USB 2.0 (4 x Rear, 4 x by cable)
	• 6 x Audio ports (4 x Line-out/ 1 x Line-in/ 1 x MIC/ 1 by cable)
	• 1 x LAN RJ45
	• 6 x SATA 3.0Gb/s connectors
Hardware Monitor	• Enhanced features Voltage detection (+3.3V/+5V/+12V/Vbat/Vcore)
	 Temperature auto detection (CPU/VRM/chassis)
	 CPU shutdown when overheat
	 System Voltage Detect
BIOS	 PHOENIX BIOS on 16MB SPI ROM
Additional Features	 PS/2 Mouse wake up from S1 under Windows Operating System
	 External Modem wake up
	 Supports S1, S4, S5 under Windows Operating System
	 Wake on LAN (WOL)
	 Wake on Ring (WOR)
	AC Recovery
	Supports Console Redirection
	 Supports 4-pin Fan controller

1.2 GA-6TXSL-RH Motherboard Components

- 1. CPU
- 2. Intel X58 ICH
- 3. Intel 82801IJR ICH10R
- 4. ITE IT 8720
- 5. PCIE x 16 Slot
- 6. PCIE x 4 Slot
- 7. PCIE x 16 Slot(@x8)
- 8. PCIE x 8 Slot
- 9. PCIE x 4 Slot
- 10. 32bit / 33MHz PCI Slot
- 11. SPI BIOS Chip
- 12. CMOS Battery
- 13. Rear fan conn
- 14. Intel 82567LM
- 15. Realtelc ALC889A
- 16. SPDIF Conn
- 17. IEEE TI 1394
- 18. Front Auio Cable connector
- 19. Front USB connector
- 20. Front USB connector
- 21. Front IEEE TI 1394 connector
- 22. Front panel connector
- 23. System fan conn

- 24. SATA Cable1.4
- 25. SATA Cable2.5
- 26. SATA Cable3.6
- 27. 24pin ATX power connector
- 28. Floppy connector
- 29. Channel 3 DDR3 Slot1
- 30. Channel 3 DDR3 Slot2
- 31. Channel 2 DDR3 Slot1
- 32. Channel 2 DDR3 Slot2
- 33. Channel 1 DDR3 Slot1
- 34. Channel 1 DDR3 Slot2
- 35. PS2/Keyboard/ mouse port
- 36. com port
- 37. Printer port
- 38. COM Port
- 39. USB2.0 + IEEE 1394 port
- 40. USB2.0 + GbLan port
- 41. Audio port
- 42. 4pin 12V ATX power connector



2-1: Install Memory Modules

GA-6TXSL-RH has 6 triple inline memory module (DIMM) sokcets. It supports Triple Channels Technology. The BIOS will automatically detects memory type and size during system boot. For detail DIMM installation, please refer to the following instructions.



Table 1. Supported DIMM Module Type

▶ Dual Channel Memory Configurations Table

	DDR3_2	DDR3_1	DDR3_4	DDR3_3	DDR3_6	DDR3_5
Two Modules		DS/SS		DS/SS		
Four Modules	DS/SS	DS/SS	DS/SS	DS/SS		

▶ 3 Channel Memory Configurations Table

	DDR3_2	DDR3_1	DDR3_4	DDR3_3	DDR3_6	DDR3_5
Three Modules		DS/SS		DS/SS		DS/SS
Four Modules	DS/SS	DS/SS		DS/SS		DS/SS
Six Modules	DS/SS	DS/SS	DS/SS	DS/SS	DS/SS	DS/SS



2-2: Connect ribbon cables, cabinet wires, and power supply

2-2-1 : I/O Back Panel Introduction



2-3: Connectors Introduction & Jumper Setting



- 1. 24pin ATX power connector
- 2. 4pin 12V ATX power connector
- 3. Floppy connector
- 4. SATA Cable1.4
- 5. SATA Cable2.5
- 6. SATA Cable3.6
- 7. Front Auio Cable connector
- 8. Front USB connector
- 9. Front USB connector
- 10. Front IEEE TI 1394 connector
- 11. System Power LED Heade
- 12. Front panel connector
- 13. CMOS Battery
- 14. Cpu fan conn
- 15. Rear fan conn
- 16. System fan conn
- 17. Password Jumper
- 18. BIOS Relovery Jumper
- 19. COMS Clear Jumper
- 20. SPDIF connector for RCA

1) ATX1 (Auxuliary Power Connector)

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





PIN No.	Definition
1	+3.3V
2	+3.3V
3	GND
4	+5V
5	GND
6	+5V
7	GND
8	POK
9	5VSB
10	+12V
11	+12V
12	+3.3V
13	+3.3V
14	-12V
15	GND
16	PSON
17	GND
18	GND
19	GND
20	-5V
21	+5V
22	+5V
23	+5V
24	GND

2) ATX2 (Auxuliary +12V Power Connector)





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

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

3) FDD (Floppy Connector)

Please connect the floppy drive ribbon cables to FDD. It supports 720K,1.2M,1.44M and 2.88Mbytes floppy disk types. The red stripe of the ribbon cable must be the same side with the Pin1.



4/5/6) S_ATA 1~6 (Serial ATA cable connectors)

You can connect the Serial ATA device to this connector, it provides you high speed transfer rates (3.0Gb/s).



Definition
GND
TXP
TXN
GND
RXN
RXP
GND

7) FAUDIO_ACZ (Front AUDIO cable connector)

If you want to use Front Audio connector, you must remove 5-6, 9-10 Jumper. In order to utilize the front audio header, your chassis must have front audio connector. Also please make sure the pin assignment on the cable is the same as the pin assignment on the MB header. To find out if the chassis you are buying support front audio connector, please contact your dealer.



8) F_USB1 (Internal USB cable connector)

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



	Pin No.	Definition
	1	VCC
2	2	VCC
	3	D1-
:	4	D2-
:	5	D1+
:	6	D2+
	7	GND
10	8	GND
	9	No Pin
	10	GND

9) F_USB2 (Internal USB cable connector)

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

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	Pin No.	Definition	
	1	VCC	
2	2	VCC	
	3	D3-	
	4	D4-	
	5	D3+	
	6	D4+	
	7	GND	
0	8	GND	
	9	No Pin	
	10	GND	

10) 1394 (IEEE 1394 cable connectors)



11) PWR_LED(System Power LED Header)

This header can be used to connect a system power LED on the chasis to indicate system power status. The LED is on when the system is opering. The LED keeps blinking when the system is in S1 sleep state. The LED is off when the system is in S3/S4 sleep state or power off(S5)



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

MSG Status		
S0	LED On	
S1	Blinking	
S3/S4/S5	Off	

12) F_Panel (2X10 Pins Front Panel connector)

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

NOTE!! Please note that the onborad front panel connector must attach with adapt cable to enable front panel function.





MSG Status		
S0	LED On	
S1	Blinking	
S3/S4/S5	Off	

Pin No	Signal Name	Description
1	HDD+	Hard Disk LED anode (+)
2	MSG+	Message anode (+)
3	HDD-	Hard Disk LED cathode(-)
4	MSG-	Message anode (-)
5	RESET-	Reset button cathode(-)
6	PW+	Power button switch anode (+)
7	RESET+	Reset button anode (+)
8	PW-	Power button switch cathode(-)
9	No Pin	Pin removed
10	No Pin	Pin removed
11	No Pin	Pin removed
12	No Pin	Pin removed
13	No Pin	Pin removed
14	No Pin	Speaker anode(+)
15	MPD+	Pin removed
16	No Pin	ND
17	MPD-	Pin removed
18	No Pin	ND
19	SLEEP LED	Pin removed
20	No Pin	Speaker cathode(-)

13) BAT1 (Battery)





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

- If you want to erase CMOS...
- 1. Turn OFF the computer and unplug the power cord.
- 2.Remove the battery, wait for 30 second.
- 3.Re-install the battery.
- 4.Plug the power cord and turn ON the computer.

14) CPU_FAN (CPU fan cable connector)

Please note, a proper installation of the CPU cooler is essential to prevent the CPU from running under abnormal condition or damaged by overheating. The CPU fan connector sup ports Max. current up to 1A.



1	Pin No.	Definition
	1	GND
h•1	2	12V
Ľ:	3	Sense
	4	Control

15) REAR_FAN (Front Fan and Rear fan cable connectors)

This connector allows you to link with the cooling fan on the system case to lower the system temperature. These connectors are for system use only.



Pin No.	Definition
1	GND
2	12V
3	Sense
4	Control

16) SYS_FAN (System Fan Connector)

This connector allows you to link with the cooling fan on the system case to lower the system temperature. These connectors are for system use only.



1	Pin No.	Definition	
÷	1	GND	
:	2	12V	
•	3	Sense	
	4	Control	

17) JP2 (Skip password jumper)



18) JP3 (BIOS recovery jumper)



19) JP1 (Clear CMOS jumper)

You may clear the CMOS data to restore its default values by this jumper.

Default value doesn't include the "Shunter" to prevent from improper use this jumper. To clear CMOS, temporarily short 1-2 pin.



20) SPDIF (SPDIF connector for RCA)

This header supports digital S/PDIF in and can connect to an audio device that supports digital audio out via an optional S/PDIF in cable. For purchasing the optional S/PDIF in cable, please contact the local dealer.



2-4: Block Diagram



Chapter 3 BIOS Setup

BIOS (Basic Input and Output System) includes a CMOS SETUP utility which allows user to configure required settings or to activate certain system features.

The CMOS SETUP saves the configuration in the CMOS SRAM of the motherboard.

When the power is turned off, the battery on the motherboard supplies the necessary power to the CMOS SRAM.

ENTERING SETUP

When the power is turned on, press the <F2> button during the BIOS POST (Power-On Self Test) will take you to the CMOS SETUP screen. You can enter the BIOS setup screen by pressing "Ctrl + F1".

CONTROL KEYS

<u><^></u>	Move to previous item
<↓>	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
<f6></f6>	Reserved
<f7></f7>	Reserved
<f8></f8>	Reserved
<f9></f9>	Load the Optimized Defaults
<f10></f10>	Save all the CMOS changes, only for Main Menu
	04

GETTING 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>.

Select the Load Setup Defaults item in the BIOS Exit Setup menu when somehow the system is not stable as usual. This action makes the system reset to the default settings for stability.

• Main

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

Advanced

This setup page includes all the items of Phoenix BIOS special enhanced features. (ex: Auto detect fan and temperature status, automatically configure hard disk parameters.)

Security

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

• Server

Server additional features enabled/disabled setup menus.

• Boot

This setup page include all the items of first boot function features.

• Exit

There are five options this selection: Exit Saving Changes, Exit Discarding Changes, Load Optimal Defaults, Load Failsafe Defaults, and Discard Changes.

3-1 Main

Once you enter Phoenix BIOS Setup Utility, the Main Menu (Figure 1) will appear on the screen. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.

P	hoenix Secur	eCore(tm) Set	tup Utility	J	
Main Advanced	Power	Secur i ty	Server	Boot	Exit
Sucton Data:	F 12 /04/200	91		Item Spec	ific Help
System Time: BIOS Version: BIOS Date:	[12:17:00] 6TXSL-D01 03/31/2009			Tab>, <shi Enter> selo</shi 	ft-Tab>, or ects field.
CPU Type: CPU Speed: CPU Count:	Genuine In 2.40 GHz 1	tel(R) CPU			
Total Memory Size: > Hardware Monitor	1022 MB				
F1 Help ^∪ Sele Esc Exit ◇ Sele	ct Item -/+ ct Menu Ent	Change Va er Select >	i lues Sub-Menu	F9 Setuj F10 Save	p Defaults and Exit

C System Date

Set the System Date. Note that the "Day" automatically changed after you set the date.

🗢 System Time

The time is calculated based on the 24-hour military time clock. Set the System Time (HH:MM:SS)

The BIOS Version

displays the BIOS version.

T BIOS Date

displays the BIOS established date.

∽ CPU Type/CPU Speed/ CPU Count

This category includes the information of CPU type, Speed ,and number of CPU count.

Total Memory

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

3-2 Advanced

Phoenix SecureCore(tm) Setup Utility								
🔰 Main	Adva	inced	Power	Secur i ty	Serve	r B	oot	Exit
> Proc > Memo > Adva > PCI > SATA > I/O > Boot > Ther	essor Con ry Config Configura Configur Device Co Configur mal and f	nfigurat puration uset Con ition ation mfigura vation iccoustic	ion figuratio tion Configur	n ation	Uniung	Item Select Proces	Specif option sor Cor	ic Help is for if iguration
Esc	Exit 🛇	Select	Menu En	ter Select	> Sub-Men	u F10	Save a	ind Exit

Processor Configuration

Phoenix SecureCore(tm) Setup Utility				
Advanced Advanced				
Processor Configuration	<u>.</u>	Item Specific Help		
Processor 1 Information: Processor Speed: Processor CPUID: Processor L2 Cache: Processor L3 Cache:	2.40 GHz 000106A2 1024 KB 8192 KB	Configures the MP Specification revision level. Some operating systems will require 1.1 for compatibility reasons.		
QPI Frequency: Multiprocessor Specification:	5.866 GT/s [<mark>1.4</mark>]			
Intel Virtualization Technology: Execute Disable Bit: Hardware Prefetcher: Adjacent Cache Line Prefetch: CPU Thermal Trip:	[Enabled] [Enabled] [Enabled] [Enabled] [Enabled] v			
F1 Help ^∪ Select Item -/+ Esc Exit ◇ Select Menu Enter	Change Values Select > Sub-Mer	F9 Setup Defaults nu F10 Save and Exit		
Phoenix SecureCo	ore(tm) Setup Uti	lity		
Processor Configuration	1.	Item Specific Help		
Processor Retest: > Processor Power Management	[Disabled] ^	Enable Thermal Monitor		
ACPI SRAT Report: Active Processors: Hyper-Threading Technology: A20M Support: Machine Checking: Fast String operations: Set Max Ext CPUID = 3: Echo TPR: Discrete MTRR Allocation: Thermal Hanagement:	Disabled] [Max. Cores] [Enabled] [Enabled] [Enabled] [Disabled] [Disabled] [Disabled] [Disabled] [Disabled]			
F1 Help ^∪ Select Item -/+ Esc Exit ◇ Select Menu Enter	Change Values Select > Sub-Mer	F9 Setup Defaults nu F10 Save and Exit		

→ Processor Configuration

This category includes the information of CPU Speed/Processor CPUID/Processor L2,L3 Cache/QPI Frequency

Multiprocessor Specification

This option allows user to configure the multiprocessor(MP) specification revision level.ome operating system will require 1.1 for compatibility reasons.

- ▶ 1.4 Support MPS Version 1.4. (Default setting)
- ▶ 1.1 Support M PS Version 1.1.

-Intel (R) Virtualization Technology

Intel(R) Virtualization Technology will allow a platform to run multiple operating systems and applications in independent partitions. With virtualization, one computer system can function as multiple "virtual" systems. With processor and I/O enhancements to Intel's various plat forms, Intel Virtualization Technology can improve the performance and robustness of today's software only virtual machine solutions.

- Enabled Enable Intel Virtualization Technology. (Default setting)
- ► Disabled Disable this function.

→ Execute Disable Bit

Enabled	Enable Execute Disable Bit. (Default setting

Disabled Disable this function.

Hardware Prefetcher

The Hardware Prefetcher looks the streams of data. The data is prefetched into L2 from ex ternal memory. Disabling of this item may impact processor performance.

Enabled Enabled Hardware Prefetcher. (Default setting)

▶ Disabled Disables this function. ⊂ IP Prefetcher

CAdjacent Cache Line Prefetch

When enable this item, both cache lines that comprise a cache line pair when it determines data required is not currently in its cache.

▶ Enabled	Adjacent Cache Line Prefetch. (Default setting)	
Disabled	Disables this function.	
🗢 CPU Thermal Trip)	
Enabled	Enable CPU Thermal Trip. (Default setting)	
Disabled	Disable CPU Thermal Trip.	
Processor Retest		
Enabled	Enable Processor Retest.	
Disabled	Disable Processor Retest. (Default setting)	
∽ACPI SRAT Repor	rt	
Enabled	Enable ACPI SRAT Report. (Default setting)	
Disabled	Disable ACPI SRAT Report.	
-Active Processor C	fores	
▶Options	One Core, Two cores, Max Cores. Default setting is Max Cores.	
→ Hyper-Threading	Fechnology	
Enabled	Enable Intel Hyper Threading Technology. (Default setting)	
Disabled	Disable Intel Hyper Threading Technology.	
∽A20M Support		
Enabled	Enable A20M Support. (Default setting)	
Disabled	Disable A20M Support.	
∽ Machine Checking		
Enabled	Enable Machine Checking. (Default setting)	
Disabled	Disable Machine Checking.	
Tast String Operat	tions	
Enabled	Enable Fast String Operations. (Default setting)	
Disabled	Disable Fast String Operations.	

∽ Set Max Ext CPUID=3

Enabled		Enable Set Max Ext CPUID=3.
Disablec	ł	Disable Set Max Ext CPUID=3. (Default setting)
🗢 Echo TP	'R	
Enabled		Enable Echo TPR.
Disablec	ł	Disable Echo TPR.(Default setting)
🗇 Discrete	MTRR All	location
Enabled		Enable Discrete MTRR Allocation.
Disablec	ł	Disable Discrete MTRR Allocation. (Default setting)
🗇 Therma	l Managem	ient
Enabled		Enable Thermal Management. (Default setting)
Disabled	ł	Disable Thermal Management.

Memory Configuration

Phoenix SecureCore(tm) Setup Utility Advanced						
Memory Configu	Item Specific Help					
Base Memory: Extended Memory: Memory Frequency: DIMM D1 : DIMM D2 : DIMM E1 : DIMM E2 : DIMM F1 : DIMM F2 : Memory Retest: Memory Retest: Memory RAS Mode:	633 KB 1021 MB 1066 MHz 1024 MB Not Installed Not Installed Not Installed Not Installed Not Installed IND IManuall IChanmel for Indeply	Clears the memory error status.				
F1 Help ^∪ Select Item Esc Exit ↔ Select Menu	-/+ Change Values Enter Select > Sub-Me	F1 Help ^u Select Item -/+ Change Values F9 Setup Defaults Esc Exit <> Select Menu Enter Select > Sub-Menu F10 Save and Exit				
Phoenix SecureCore(tm) Setup Utility Advanced						
Phoenix S Advanced	ecureCore(tm) Setup Uti	lity				
Phoenix S Advanced Memory Configu	ecureCore(tm) Setup Uti ration	lity Item Specific Help				
Phoenix S Advanced Memory Configu DIMM D1 : DIMM D2 : DIMM E1 : DIMM E1 : DIMM F1 : DIMM F2 : Memory Retest: Memory Retest: Memory RAS Mode : Memory RAS Mode : Memory Frequency : Channel Interleave setting Rank Interleave setting :	ecureCore(tm) Setup Uti ration 1024 MB Not Installed Not Installed Not Installed Not Installed Not Installed INol [Manual] [Channel for Indep] [Auto] : [6-way] [4-way]	lity Item Specific Help Valid options are 1, 2, 3, 4. Defalut to 4-way.				

∽ Base Memory/Extended Memory/memory Frequency/DIMM Status

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

🗢 Memory Reset

→ Yes	Select 'Yes', system will clear the memory error status. Save the
	changes and restart system. After rebooting system, the Memory
	Reset item will set to 'No' automatically.

► No No chnages. (Default setting)

C Memory Control Settings

- Manual Select 'Manual" will pops up sub-menu for configuration.
- ►Auto Auto configuration. (Default setting)

C Memory RAS Mode

► Identify the Memory RAS mode.

C Memory Frequency

▶ Select the desire value of Memory frequency. Options available: Auto, DDR-3 800,

DDR-3 1066, and DDR-3 1333.

Change Interleave setting

▶ Change the interleave setting. Options available: 1-way, 2-way, 3-way, 4-way, and 6-way.

CRank Interleave setting

▶ Configure interleave setting. Options available: 1-way, 2-way, and 4-way.

Advanced Chipset Configuration

Phoenix SecureCore(tm) Setup Utility Advanced				
Advanced Chipset Configura	ation	Item Specific Help		
<pre>> Intel UT for Directed I/O (UT-d) Course Grain Clocking Gating: Intel(R) I/OAT: IOH IOxAPIC: 4GB PCI Hole Granularity: QPI Control Settings: QPI Link Fast Mode: QPI Frequency Selection: QPI Isoch-support: QPI DCA support: QPI DCA support: QPI Scramble Selection: QPI Error Report: Memory ECC Error Log: Enable Multimedia Timer:</pre>	Disabled] [Enabled] [Enabled] [1.0 GB] [Enabled] [Auto] [Auto] [Disabled] [Disabled] [Disabled] [Disabled] [Disabled] [Yes]	Press <enter> to bring up the Intel VI for Directed I/O (VI-d) Configration menu.</enter>		
F1 Help ^∪ SelectItem -/+ Esc Exit ◇ SelectMenu Enter	Change Values Select > Sub-Me	F9 Setup Defaults mu F10 Save and Exit		

☞ Course Grain Clocking Gating

►Enabled	Enable Course Grain Clocking Gating.
►Disabled	Disable Course Grain Clocking Gating. (Default setting)
☞ Intel (R) I/OAT	
►Enabled	Enable configuration mapped accesses to the I/OAT configura tion sapce. (Default setting)
► Disabled	Disable I/OAT.
☞ IOH IOxAPIC	

Enabled Enable IOH IOxAPIC. (Default setting)Disabled Disable IOH IOxAPIC.

∽ 4GB PCI HoleGranularity

Select the granularity of PCI hole for PCI resource. If MTRRS are not enough, we may use this option to reduce the MTRR occupation.

▶ 512MB Select 512MB as granularity of PCI hole.

- ▶1GB Select 1GB as granularity of PCI hole. (Default setting)
- ▶2GB Select 2GB as granularity of PCI hole.

QPI Control Setting	55
▶Enabled	Enable QPI Control settings. (Default setting)
►Disabled	QPI Control settings.
QPI Link Fast Mod	e
▶Enabled	Enable QPI Link Fast Mode. (Default setting)
►Disabled	Disable QPI Link Fast Mode.
QPI Frequency Sele	ction
► Identify the desire visit of the series of the serie	alue of QPI frequency. Option available: Auto, 4.800GT, setting is Auto.
N Enabled	Enable OPI Isaah Support
	Disable OP Isoch Support (Default setting)
QPI DCA Support	Disable Qi Fisoch Support. (Derault setting)
▶Enabled	Enable QPI DCA Support. (Default setting)
►Disabled	Disable QPI DCA Support.
QPI scramble selec	tion
▶Enabled	Enable QPI scramble selection.
►Disabled	Disable QPI scramble selection. (Default setting)
QPI Error Report	
▶Enabled	Enable QPI Error Report.

∽ Memory ECC Error Log

▶Disabled

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►Identify the the memory ecc error log. Option available: Disable, Correctable Error, Uncorrectable Error, and Both. The default setting is Both.

Disable QPI Error Report. (Default setting)

∽ Enable Multimedia Timer

▶ Yes	Enable Multimedia	Timer support.	(Default setting)

►No Disable this function.

Intel VT for Directed I/O (VT-d)

Phoenix SecureCore(tm) Setup Utility Advanced			
Intel VI for Directed I/O (JT-d)	Item Specific Help	
Intel VI for Directed I/O (VI-d): Interrupt Remapping: Coherency Support: ATS: PassThrough DMA: VI-d for Port 1: VI-d for Port 2: VI-d for Port 3: VI-d for Port 3: VI-d for Port 4: VI-d for Port 5: VI-d for Port 5: VI-d for Port 6: VI-d for Port 6: VI-d for Port 8: VI-d for Port 9:	[Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled]	Enable/Disable Intel Virtualization Technology for Directed I/O (VT-d) by reporting the I/O device assigment to VMM through DMAR ACPI Tables.	
F1 Help ^∪ Select Item -/+ Esc Exit ◇ Select Menu Enter	Change Values Select > Sub-Me	F9 Setup Defaults nu F10 Save and Exit	
Phoenix SecureCore (tm) Setup Utility			
Phoenix SecureCon	re(tm) Setup Uti	lity	
Phoenix SecureCon Advanced	re(tm) Setup Uti	lity	
Phoenix SecureCon Advanced Intel VI for Directed I/O (0	re(tm) Setup Uti JT-d)	lity Item Specific Help	
Phoenix SecureCon Advanced Intel VT for Directed I/O (0 Interrupt Remapping: Coherency Support: ATS: PassThrough DMA: VT-d for Port 1: UT-d for Port 2: UT-d for Port 2: UT-d for Port 3: UT-d for Port 3: UT-d for Port 5: UT-d for Port 5: UT-d for Port 6: UT-d for Port 7: UT-d for Port 8: UT-d for Port 9: UT-d for Port 9: UT-d for Port 10:	re(tm) Setup Uti JT-d) [Enabled]	lity Item Specific Help Enable/Disable VT-d support for Port-10 Port through ATSR Structures in ACPI Tables	

→ Intel VT for Directed	d I/O (V1-d)
►Enabled	Intel VT for Directed I/O (VT-d). (Default setting)
►Disabled	Disable Intel VT for Directed I/O (VT-d).
🗢 Interrupt Remappin	Ig
►Enabled	Enable Interrupt Remapping. (Default setting)
►Disabled	Disable Interrupt Remapping.
∽ Coherency Support	
►Enabled	Enable Coherency Support.
►Disabled	Disable Coherency Support. (Default setting)
∽ ATS	
►Enabled	Enable ATS. (Default setting)
►Disabled	Disable ATS.
→ PassThrough DMA	
►Enabled	Enable PassThrough DMA. (Default setting)
►Disabled	Disable PassThrough DMA.
∽ VT-d for Port1~Port	t 10
►Enabled	Enable VT-d support for Port 1~Port 10 ports through ATSR
	structures in ACPI Tables. (Default setting)

. . .

► Disabled Disable VT-d for Port1~Port 10.

PCI Configuration

Phoenix SecureCore(tm) Setup Utility Advanced				
PCI Configurati	Item Specific Help			
PCI Slot 1 Option ROM: PCI Slot 2 Option ROM: PCI Slot 3 Option ROM: PCI Slot 4 Option ROM: PCI Slot 5 Option ROM: PCI Slot 6 Option ROM: Slot1 Latency Timer: Slot2 Latency Timer: Slot3 Latency Timer: Slot4 Latency Timer: Slot5 Latency Timer: Slot5 Latency Timer: Slot6 Latency Timer: Onboard LAN 82567 Switch Onboard LAN 82567 ROM Onboard LAN iSCSI Boot ROM:	[Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Default] [Default] [Default] [Default] [Default] [Default] [Default] [Default] [Default] [Disabled] [Disabled]	Initialize device expansion ROM		
F1 Help ^∪ Select Item - Esc Exit ↔ Select Menu I	/+ Change Values inter Select > Sub-Me	F9 Setup Defaults mu F10 Save and Exit		
Phoenix Secure(ore(tm) Setum Itility				
Phoenix Sec	cureCore(tm) Setup Uti	lity		
Phoenix Sec Advanced	ureCore(tm) Setup Uti	lity		
Phoenix Sec Advanced PCI Configurati	on	lity Item Specific Help		
Phoenix Sec Advanced PCI Configurati PCI Slot 2 Option ROM: PCI Slot 3 Option ROM: PCI Slot 4 Option ROM: PCI Slot 5 Option ROM: PCI Slot 6 Option ROM: PCI Slot 6 Option ROM: Slot1 Latency Timer: Slot2 Latency Timer: Slot3 Latency Timer: Slot4 Latency Timer: Slot5 Latency Timer: Slot5 Latency Timer: Slot6 Latency Timer: Slot6 Latency Timer: Onboard LAN 82567 Switch Onboard LAN 82567 ROM Onboard LAN 82567 ROM	IEnabled] IEnabled] IEnabled] IEnabled] IEnabled] IEnabled] IEnabled] IDefault]	lity Item Specific Help Enable support for Legacy Universal Serial Bus		

→ PCI Slot 1/2/3/4/5/6 Option 1	ROM
► Enabled	Enable this item to initialize device expansion ROM.
	(Defualt setting)
► Disabled	Disable this function.
C Slot 1/Slot2/Slot3/Slot4/Slot5	5/Slot6 Latency Timer
Defualt setting is to Defualt	
🗁 Onboard Swith	
→ LAN1Option ROM	
► Enabled	Enable onboard LAN1 device and initialize device
	expansion ROM. (Default setting)
➡ Disabled	Disable this function.
C Onboard LAN iSCSI Boot	ROM
► Enabled	Enable Onboard LAN iSCSI Boot ROM.
▶ Disabled	Disable this function. (Defualt setting)
🗁 Onboard Lan 82567 Switch	
► Enabled	Enable onboard Lan 82567 device. (Default setting)
► Disabled	Disable this device.
🗇 Onboard Lan 82567 ROM	
➡ Enabled	Enable onboard Lan 82567 ROM.
➡ Disabled	Disable this device. (Default setting).
🗢 Legacy USB Support	
➡ Enabled	Enable Legacy USB Support. (Default setting)
➡ Disabled	Disable this function.

SATA Configuration

Phoenix SecureCore(tm) Setup Utility Advanced				
SATA Configuration	1	Item Specific Help		
Serial ATA: Native Mode Operation: SATA Controller Mode Option: SATA RAID Enable: SATA AHCI Enable: SATA Port 0 SATA Port 1 SATA Port 1 SATA Port 2 SATA Port 3 SATA Port 3 SATA Port 4 SATA Port 5	[<mark>Enabled]</mark> [Auto] [Enhanced] [Disabled] [Disabled] [None] [None] [None] [None] [None] [None]	Enable the SATA		
F1 Help ^∪ SelectItem -/+ Esc Exit ◇ SelectMenu Ente	Change Values r Select > Sub-Men	F9 Setup Defaults nu F10 Save and Exit		
Phoenix Secure Advanced	Core(tm) Setup Util	lity		
SATA Port 0 [None]	Item Specific Help		
Type: Land Control: Disab BA Mode Control: Disab 32 Bit I/O: Disab Transfer Mode: IStand Ultra DMA Mode: Disab	led] led] led] ard] led]	User = you enter parameters of hard-disk drive installed at this connection. Auto = autotypes hard-disk drive installed here.		

					is i ATAF remo inst	nstalled here. II Removable = wable disk drive is alled here.
F1 Fee	Help	ÎU O	Select Item	-/+ Enter	Change Values FS Select > Sub-Menu F1	Setup Defaults

🗢 Serial ATA	
► Enabled	Enables on-board serial ATA function. (Default setting)
►Disabled	Disables on-board serial ATA function.
Native Mode Opera	tion This option allows user to set the native mode for Serial
	ATA function.
► Auto	Auto detected. (Default setting)
Serial ATA	Set Native mode to Serial ATA.
SATA Controller M	lode Option
➡ Compatible Mode	SATA and PATA drives are auto-detected and placed
	in Legacy mode.
➡ Enhanced Mode	SATA and PATA drives are auto-detected and placed
	in Native mode. (Default setting)
Note: Pre-Win2000 o	perating system do not work in Enhanced mode.
SATA RAID Enable	e
➡ Enabled	Enabled SATA RAID function.
➡ Disabled	Disable this function. (Default setting)
SATA AHCI Enable)
► Enabled	Set this item to enable SATA AHCI function for
	WinXP-SP1+IAA driver supports AHCI mode.
▶ Disabled	Disabled this function. (Default setting)

C SATA Port 0/1/2/3/4/5

The category identifies the types of Serial SATA hard disk from drive 0 to 5 that has been installed in the computer. System 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.

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

► TYPE

1-39: Predefined types.

Users: Set parameters by User.

Auto: Set parameters automatically. (Default setting)

CD-ROM: Use for ATAPI CD-ROM drives or double click [Auto] to set all HDD param eters automatically.

ATAPI Removable: Removable disk drive is installed here.

Multi-Sector Transfer

This field displays the information of Multi-Sector Transfer Mode.

Disabled: The data transfer from and to the device occurs one sector at a time. Auto: The data transfer from and to the device occurs multiple sectors at a time if the device supports it.

••	LBA Mode Control	This field shows if the device type in the specific \ensuremath{IDE}
		channel support LBA Mode.
••	32-Bit I/O	Enable this function to max imize the IDE data
		transfer rate.

✤ Transfer Mode This field shows the information of Teansfer Mode.

Ultra DMA Mode This filed displays the DMA mode of the device in the specific IDE channel.

I/O DeviceConfiguration

Phoenix SecureCore(tm) Setup Utility				
Advanced				
I/O Device Con	figuration	Item Specific Help		
Serial Port A: Base I/O Address:	[<mark>Enabled]</mark> [3F8/IRQ 4]	PilotII Configure serial port A using options:		
Serial Port B: Base I/O Address: NumLock:	lEnabled] [2F8/IRQ_3] [On]	[Disabled] No configuration		
Parallel port: Mode: Base I/O Address: Interrupt:	[Enabled] [Bi-directional] [378] [IRQ 7]	User configuration		
Floppy disk controller: Legacy Diskette A:	[Disabled] [Disabled]			
F1 Help ^∪ Select Ite Esc Exit ◇ Select Mem	m -/+ Change Values u Enter Select∋Sub-Men	F9 Setup Defaults nu F10 Save and Exit		

∽ Serial Port A

This allows users to configure serial prot A by using this option.

► Enabled	Enable the configuration. (Default setting)	
► Disabled	Disable the configuration.	
Base I/O Address/	IRQ	
►> 3F8/IRQ4	Set IO address to 3F8/IRQ4.(Default setting)	
► 2F8/IRQ3	Set IO address to 2F8/IRQ3.	
► 3E8/IRQ7	Set IO address to 3E8/IRQ7.	
► 2E8/IRQ5	Set IO address to 2E8/IRQ5.	
🗢 Serial Port B		
This allows users to c	configure serial prot B by using this option.	
► Enabled	Enable the configuration (Default setting)	
► Disabled	Disable the configuration.	
Base I/O Address/	IRQ	
► 3F8/IRQ4	Set IO address to 3F8/IRQ4.	

▶ 2F8/IRQ3	Set IO address to 2F8/IRQ3. (Default setting)
▶ 3E8/IRQ7	Set IO address to 3E8/IRQ7.
▶ 2E8/IRQ5	Set IO address to 2E8/IRQ5.
▶ 3E8/IRQ7	Set IO address to 3E8/IRQ7.
▶ 2E8/IRQ5	Set IO address to 2E8/IRQ5.

\bigcirc NumLock

▶On Ena	ble NumLock function.	(Default setting)
---------	-----------------------	-------------------

► Disabled Disable NumLock function.

\bigcirc Mode

This option allows user to set Parallel Port transfer mode.

►EPP Using	Parallel port as Enhanced Parallel Port.
➡Bi-directional	Use this setting to support bi-directional transfers on the parallel
	port. (Default setting)
ECP Using	Parallel port as Extended Capabilities Port.

┌─ Base I/O Address

▶ 378	Set IO address to 378. (Default setting)
▶ 289	Set IO address to 27
► 3BC	Set IO address to 3BC

∽ Interrupt

► IRQ5	Set the Interrupt to IRQ5.
▶ IRQ7	Set the Interrupt to IRQ7. (Default setting)

∽ Floppy disk controller

>> Enabled Enable Floppy disk controller function. (Default setting)

Disabled Disable Floppy disk controller function.

∽ Legacy Diskette A

► Enabled Enable Legacy Diskette A function. (Default setting)

Disabled Disable Legacy Diskette A function.

Boot Configuration

Phoenix SecureCore(tm) Setup Utility								
Ĥ	dvanced							
	Boot Configuration					Item	Specific Help	
Boot-time Post Error NumLock:	Diagnostic Pause:	Screen:	[<mark>]) is</mark> [A1] [On]	sabled , but]	Keyboard]	Displa screen	y the diagnostic during boot	
F1 Help	^∪ Select	Item -	/+	Change	Values	F9	Setup Defaults	
Esc Exit	<u>↔ Select</u>	<u>Menu</u> stie Serv	nter 2011	Select	> Sub-Men	u F10	Save and Exit	
							avetara haat	
when this in	em is enable	a, system	i will sh	iows Dia	ignostic stati	us when	system boot.	
	Enable Boot-time Diagnostic screen.							
► Disabled Disable this function. (Default setting)								
↔ Post Erre	or Pause							
The category determines whether the computer will stop if an error is detected during power up.								
►All Er	ror	When stoppe	Whenever the BIOS detects a non-fatal error the system will be stopped.					
► No E	No Error The system boot will not stop for any error that may be detected and you will be prompted.				d			

► All, But Keyboard The system boot will not stop for a keyboard error; it will stop for all other errors. (Default setting)

\bigcirc NumLock

This option allows user to select power-on state for NumLock.

₩On	Enable NumLock. (Default setting)	
► Off	Disable this function.	
	15	

Thermal and Acoustic Configuration

Phoenix SecureCore(tm) Setu Advanced	p Utility
Thermal and Acoustic Configuration	Item Specific Help
Open-ioop Thermal Throttle:[Enabled]Temperature Chasis inlet:[35]Temperature Rise:[10]Air speed to the DIMMs:[1500]System Altitude:[0]Pitch between DIMMs:[400]Close-loop Thermal Throttle:[Enabled]Temperature hysteresis:[1]Temperature guardband:[3]Temperature Chasis inlet:[35]Temperature Rise:[10]Air speed to the DIMMs:[1500]System Altitude:[0]Pitch between DIMMs:[400]	Enable/Disable Open-loop Thermal Throttle
F1 Help ^∪ Select Item -/+ Change Val Esc Exit ◇ Select Menu Enter Select > S	ues F9 Setup Defaults Gub-Menu F10 Save and Exit

∽ Open loop Thermal Throttle

► EnabledOpen loop Thermal Throttle. (Default setting)

Disabled Disable Open loop Thermal Throttle.

→ Temperature Chassis inlet

▶ This item is user defined. Use nuber key to adjust desired value.

∽ Temperature Rise

>> This item is user defined. Use nuber key to adjust desired value.

~Air speed to the DIMMs

>> This item is user defined. Use nuber key to adjust desired value.

🗢 System Altitude

➤This item is user defined. Use nuber key to adjust desired value.

→ Pitch between DIMMs

▶ This item is user defined. Use nuber key to adjust desired value.

∽ Close loop Thermal Throttle

► EnabledClose loop Thermal Throttle. (Default setting)

Disabled Disable Close loop Thermal Throttle.

~ Temperature hysteresis

▶ This item is user defined. Use nuber key to adjust desired value.

→ Temperature guardband

▶ This item is user defined. Use nuber key to adjust desired value.

→ Temperature Chassis inlet

▶ This item is user defined. Use nuber key to adjust desired value.

∽ Temperature Rise

▶ This item is user defined. Use nuber key to adjust desired value.

~Air speed to the DIMMs

➤This item is user defined. Use nuber key to adjust desired value.

∽ System Altitude

▶ This item is user defined. Use nuber key to adjust desired value.

∽ Pitch between DIMMs

▶ This item is user defined. Use nuber key to adjust desired value.

3-3 Power

				Pho	enix Se	ecureCo	ore(tm) S	Setup Uti	lity		
	Main		Adva	nced	Power	s S	Security	Serv	er I	oot	Exit
	Main Powe Powe Wake Wake Afte	er On er On er On : Up b : Up b er Pow	Adva by P by M y PS y US er F	nced TC Alar CI & PC odem Ri /2 KB/M B KB/Mo ailure:	Power IE Deu i ng : ouse : use :	ices:	Comity (Off) (Enabled (Enabled (Enabled (Enabled (Last St	Serv 1] 1] 1] 1] tate]	Enable System Specif	oot Speci d wake up at ic tim	Exit fic Help s the a e.
F	1	Help	^U	Select	Item	-/+ Factors	Change	Values	F9 F10	Setup	Defaults

~ Power On by RTC Alarm

You can set item to Enabled and key in Date/Time to power on system.

- ➤On Enable alarm function to POWER ON system. (Default setting)
- ► Off Disable this function.
- If Resume On Time is set to On status:
- ► RTC Alarm control select: Manual/Auto
- ▶ Time (0~23) : (0~59) : (0~59)

→ Power On by PCI & PCIE Devices

EnabledEnable Power On PCI & PCIe Devices. (Default setting)

► Disabled Disable this function.

∽ Power On by Modem Ring

- EnabledEnable Power On by Modem Ring. (Default setting)
- ✤Disabled Disable Power On by Modem Ring.

∽ Wake Up by PS/2 KB/Mouse

► EnabledEnable Wake Up by PS/2 KB/Mouse. (Default setting)

Disabled Disable Wake Up by PS/2 KB/Mouse function.

Wake Up by USB KB/Mouse

► EnabledEnable Wake Up by USB KB/Mouse. (Default setting)

Disabled Disable Wake Up by USB KB/Mouse function.

C-After Power Failure

This option provides user to set the mode of operation if an AC / power loss occurs.

- ▶ Power On System power state when AC cord is re-plugged.
- Stay Off Do not power on system when AC power is back.
- ► Last State Set system to the last sate when AC power is removed. Do not power on system when AC power is back. (Default setting)

3-4 Security

		Ph	oenix S	ecureCo	ore(tm) S	Setup Uti	lity		
Mai	n Ad	vanced	Powe	r S	Security	Serv	er B	oot	Exit
Sum	ervisor	Password	Is:	Clear			Item	Spec i :	fic Help
Sup Use: Set Pas:	ervisor r Passwo Supervi User Pa sword or	Password rd Is: sor Pass ssword: boot:	Is:	Clear Clear I <mark>Enter1</mark> IEnter1 IDisabl	ed]		Superv contro setup	isor Pa ls acco utiliti	assword ess to the J.
F1	Help	v Selec	t Item	-/+	Change	Values	F9	Setup	Defaults
Esc	Exit <	> Selec	t Menu	Enter	Select	> Sub-Me	nu F10	Save a	and Exit

∽ Set Supervisor Password

You can install and change this options for the setup menus. Type the password up to 6 characters in lengh and press <Enter>. The password typed now will clear any previously entered password from the CMOS memory. You will be asked to confirm the entered password. Type the password again and press <Enter>. You may also press <Esc> to abort he selection and not enter a specified password or press <Enter> key to disable this option.

C=Set User Password

You can only enter but do not have the right to change the options of the setup menus. 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 6 characters in lengh and press <Enter>. The password typed now will clear any previously entered password from the CMOS memory. You will be asked to confirm the entered password. Type the password again and press <Enter>. You may also press <Esc> to abort the selection and not enter a specified password.

∽Password on boot

Password entering will be required when system on boot.

- ► Enabled Requries entering password when system on boot.
- Disabled Disable this function. (Default setting)

3-5 Server

			Pho	enix S	ecureCo	re(tm)	Setup Util	lity		
Ma i	n	Adva	nced	Powe	r S	lecur i ty	Serve	er	Boot	Exit
L Suc	ton Ma		mont					Ite	m Speci	fic Help
> Sys > Con	tem Ma sole R	nage	ment ection					Addit view∷ featu	ional s server res.	etup menu to managment
F1	Help	^U	Select	Item	-/+	Change	Values	F9	Setup	Defaults
Esc	Exit	\diamond	Select	Menu	Enter	Select	> Sub-Mer	nu F10	Save	and Exit

3-6 System Management

This category allows user to view the system management features. Including infor mation of System Manufacture, System Product Name, System Serial Number, Base Board Product Name, Base Board Serial Number and UUID.

Phoenix S	ecureCore(tm) Setu	p Utility
		Server
System Manager	ment	
System Manufacture: System Product Name: System Serial Number: Base Board Product Name: Base Board Serial Number: UUID:	Gigabyte GA-61XSL-RH 0123456789 GA-6TXSL-RH 9876543210 8088888888788FFFFF	FFFFFFFFFFFFF
F1 Help ^∪ Select Item Esc Exit ◇ Select Menu	-/+ Change Valu Enter Select > Su	ues F9 Setup Defaults ub-Menu F10 Save and Exit

Console Redirection

Phoen i	x SecureCore(tm) Setup Uti Serv	lity er
Console Red	Item Specific Help	
Console Redirection: Flow Control: Baud Rate: Terminal Type: Continue CR after POST:	L <mark>Dn-board COM A</mark> LCTS/RTSJ [19.2k] LPC ANSJJ LOFFJ	If enabled, it will use a port on the motherboard.
F1 Help ^∪ Select It Esc Exit ↔ Select Me	em -/+ Change Values mu Enter Select > Sub-Me	F9 Setup Defaults mu F10 Save and Exit

∽ Console Redirection

If this option is set to enabled, it will use a port on the motherboard to run console redirection function.

- ▶ On-board COM A Use Serial Port A as the COM port address.
- ▶ On-board COM B Use Serial Port B as the COM port address.
- ✤ Disabled Disable this function. (Default setting)

C-Flow Control

This option provide user to enable the flow control function.

- ► None Not supported.
- ► XON/XOFF Software control.
- CTS/RTS Hardware control. (Default setting)

🗢 Baud Rate

This option allows user to set the specified baud rate.

➡ Options 300, 1200, 2400, 9600, 19.2K, 38.4K, 57.6K, 115.2K.

TerminalType

This option allows user to select the specified terminal type. This is defined by IEEE.

▶ Options VT100, VT100 8bit, PC-ANSI 7bit, PC-ANSI, VT100+, VT-UTF8, ASCII.

∽ Continue C.R. after POST

This option allows user to enable console redirection after O.S has loaded.

- ►On Enable console redirection after O.S has loaded.
- ► Off Disable this function. (Default setting)

3-7 Boot

	Phoenix SecureCore(tm) Setup Utility							
Main	Advanced	Power	Security	Serve	r Boot	Exit		
Main Boot pu 2: 3: 4: 5: 6: 7: 8:	Advanced	Power	Secur i ty	Serve	r Boot Item Sp Keys used configure Up and Do select a <+> and < the devic <f> and <</f>	Exit Decific Help I to view or e devices: Dwn arrows device (-> moves ce up or down. (r> specifies		
Exclude :] :]	ed from boot o Legacy Networl Bootable Add-	order: (Card in Cards 	Change U	alues	the devid removable <x> exclu the devid <shift +<br="">disables <1 - 4> I boot sequ</shift></x>	e fixed or e. de or include e to boot. 1> enables or a device. .oads default uence.		
Esc Ex	it 💠 Selec	Menu E nt	ter Select >	Sub-Men	u F10 Sa	we and Exit		

C Boot Priority Order

This field determines which type of device the system attempt to boot from after PhoenixBIOS Post completed. Specifies the boot sequence from the available de vices. If the first device is not a bootable device, the system will seek for next avail able device.

Key used to view or configure devices:

Up and Down arrows select a device.

<+> and <-> moves the device up or down.

<f> and <r> specifies the device fixed or removable.

<x> exclude or include the device to boot.

<Shift + 1> Enable or disable a device.

<1-4> Loads default boot secquence.

3-8 Exit

	Pho	enix SecureCor	e(tm) Setup Uti	lity
Main	Advanced	Security	Server Boo	Exit
Exit	Saving Changes	1		Item Specific Help
Exit Load Disca Save	Discarding Chan Setup Defaults rd Changes Changes	nges	-	Exit System Setup and save your changes to CMOS.
F1 H Esc E	elp ^∪ Seleo xit ◇ Seleo	:t Item -/+ :t Menu Enter	Change Values Execute Comman	F9 Setup Defaults nd F10 Save and Exit

About This Section: Exit

Once you have changed all of the set values in the BIOS setup, you should save your changes and exit BIOS setup program. Select "Exit" from the menu bar, to display the following sub-menu.

- Exit Saving Changes
- ➢ Exit Discarding Changes
- ➢ Load Settup Default
- > Discard Changes
- ➢ Save Changes

☞ Exit Saving Changes

This option allows user to exit system setup with saving the changes.

Press <Enter> on this item to ask for the following confirmation message:

Pressing 'Y' to store all the present setting values tha user made in this time into CMOS. Therefore, whenyou boot up your computer next time, the BIOS will reconfigure your

system according data in CMOS.

CExit Discarding Changes

This option allows user to exit system setup without changing anyprevious settings values in CMOS. The previous selection remain in effect.

This will exit the Setup Utility and restart your compuetr when selecting this option.

∽Load Settup Default

This option allows user to load default values for all setup items.

When you press <Enter> on this item, you will get a confirmation dialog box with a message as below:

CDiscard Changes

This option allows user to load previos values from CMOS for all setup item.

When you press <Enter> on this item, you will get a confirmation dialog box with a message as below:

- Save Changes

This option allows user to save setup dat ato CMOS.

When you press <Enter> on this item, you will get a confirmation dialog box with a message as below:
