

GS-SR275

Rack Mount Server

System Installation Guide

AMD Opteron™ Socket 940 Dual Processor Motherboard

Rev. 1.1

25A08-02750-F00

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Safety, Care and Regulatory Information

⚡ Important safety information

Read and follow all instructions marked on the product and in the documentation before you operate your system. Retain all safety and operating instructions for future use.

- * The product should be operated only from the type of power source indicated on the rating label.
- * If your computer has a voltage selector switch, make sure that the switch is in the proper position for your area. The voltage selector switch is set at the factory to the correct voltage.
- * The plug-socket combination must be accessible at all times because it serves as the main disconnecting device.
- * All product shipped with a three-wire electrical grounding-type plug only fits into a grounding-type power outlet. This is a safety feature. The equipment grounding should be in accordance with local and national electrical codes. The equipment operates safely when it is used in accordance with its marked electrical ratings and product usage instructions.
- * Do not use this product near water or a heat source.
- * Set up the product on a stable work surface or so as to ensure stability of the system.
- * Openings in the case are provided for ventilation. Do not block or cover these openings. Make sure you provide adequate space around the system for ventilation when you set up your work area. Never insert objects of any kind into the ventilation openings.
- * To avoid electrical shock, always unplug all power cables and modem cables from the wall outlets before removing covers.
- * Allow the product to cool before removing covers or touching internal components.

⚡ Precaution for Product with Laser Devices

Observe the following precautions for laser devices:

- * Do not open the CD-ROM drive, make adjustments, or perform procedures on a laser device other than those specified in the product's documentation.
- * Only authorized service technicians should repair laser devices.

⚡ Precaution for Product with Modems, Telecommunications, or Local Area Network Options

Observe the following guidelines when working with options:

- * Do not connect or use a modem or telephone during a lightning storm. There may be a risk of electrical shock from lightning.

- * To reduce the risk of fire, use only No. 26 AWG or larger telecommunications line cord.
- * Do not plug a modem or telephone cable into the network interface controller (NIC) receptacle.
- * Disconnect the modem cable before opening a product enclosure, touching or installing internal components, or touching an uninsulated modem cable or jack.
- * Do not use a telephone line to report a gas leak while you are in the vicinity of the leak.

🔧 Federal Communications Commission (FCC) Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Neither the provider nor the manufacturer are responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

🔧 FCC part 68 (applicable to products fitted with USA modems)

The modem complies with Part 68 of the FCC Rules. On this equipment is a label that contains, among other information, the FCC registration number and Ringer Equivalence Number (REN) for this equipment. You must, upon request, provide this information to your telephone company.

If your telephone equipment causes harm to the telephone network, the Telephone Company may discontinue your service temporarily. If possible, they will notify in advance. But, if advance notice is not practical, you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC.

Your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect proper operation of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

The FCC prohibits this equipment to be connected to party lines or coin-telephone service.

The FCC also requires the transmitter of a FAX transmission be properly identified (per FCC Rules Part 68, Sec. 68.381 (c) (3)).

/ for Canadian users only /

📌 Canadian Department of Communications Compliance Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of Industry Canada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Classe B prescrites dans le règlement sur le brouillage radioélectrique édicté par Industrie Canada.

📌 DOC notice (for products fitted with an Industry Canada-compliant modem)

The Canadian Department of Communications label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Department does not guarantee the equipment will operate to the user satisfaction.

Before installing this equipment, users ensure that it is permissible to be connected to the facilities of the local Telecommunications Company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions might not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present are connected together. This precaution may be particularly important in rural areas.

Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

NOTICE: The Load Number (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device, to prevent overloading. The termination on a loop may consist of any combination of devices subject only to the requirement that the sum of the Load Numbers of all the devices does not exceed 100.

/ for European users only /



CAUTION

CAUTION

- ❖ 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.



WARNING!

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

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

Introduction

Welcome to Gigabyte GS-SR275 Rack mount Server System Installation Guide. The guide provides instructions for configuration hardware for the GS-SR275 your system.

This installation guide will assist you in installing all the essential components for the sever system. For your protection, please read and undertand all of the safety and operating instructions regarding your Gigabyte Server and retain for future reference. The procedures in this guidebook assume that your are a system or network administrator experienced in installing similar hardware.

Contents Packages

When opening the package, please ensure the system components are not damaged during the shipping. Using the following checklist to verify the contents. If any component is missing or damaged in the system, please contact your vendor immediately.

- | | |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Chassis | <input checked="" type="checkbox"/> Silm type CD-ROM drive (Installed) |
| <input checked="" type="checkbox"/> GA-7A8DRH Motherboard (Installed) | <input checked="" type="checkbox"/> Silm type Floppy drive (Installed) |
| <input checked="" type="checkbox"/> Two CPU Heat Sinks | <input checked="" type="checkbox"/> Driver CD for motherboard driver & utility |
| <input checked="" type="checkbox"/> GS-SR275 System Installation Guide | <input checked="" type="checkbox"/> GSMT User's Manual |
| <input checked="" type="checkbox"/> Hard Disk Drive Trays x 8 | <input checked="" type="checkbox"/> Driver CD for GSMT |
| <input checked="" type="checkbox"/> Power Supply (Installed) | |

Chapter 1 Features Summary

Motherboard	<ul style="list-style-type: none"> GA-7A8DRH
Processor Supported	<ul style="list-style-type: none"> Support Dual Opteron processors (Sledge Hammer) The HyperTransport link of the AMD Opteron processor is capable of operating at 400, 800, 1200, and 1600 MT/s.
Chipset	<ul style="list-style-type: none"> AMD-8131 North Bridge HyperTransport PCI-X chipset provides two independent, high-performance PCI-X bus bridges, interated with a high-speed HyperTransport technology tunnel. AMD-8111 HyperTransport I/O Hub replaces the traditional southbridge. This component integrates storage, connectivity, audio, I/O expansion and system management functions into a single device.
System Memory:	
Memory Capacity	<ul style="list-style-type: none"> 8 x 184-pin DIMM Sockets CPU1 supports memory capacity up to 8GB CPU2 supports memory capacity up to 16GB
Memory Type	<ul style="list-style-type: none"> Registered DDR200/266/333/400
Memory Voltage	<ul style="list-style-type: none"> 2.6V only
Error Correction:	<ul style="list-style-type: none"> Single-bit Errors Correction, Multiple-bit Errors Detection
Expansion Slot	<ul style="list-style-type: none"> Full height/full length side (front top view), 1st, 2nd and 3rd slot, total 3 slots, Low profile side/half length side (front top view), 1st and 2nd total 2 slots support. When there is no ZCR inserted: If insert 1~3 expansion cards, the performance of each expansion card will be 64bit/66MHz; if you insert 4 and more expansion cards, the preformance of each expansion card will be 64bit/33MHz. (Jumper setting is required) When there is ZCR card inserted: Low profile side will support 2 slots; full height side supports 2 slots , if you insert 1~3 expansion cards, the performnce of each expansion card will be PCI-X 64/66MHz; if you insert 4 or more expansion cards, the performnce of each expansion card will be PCI-X 64/33MHz (Jumper setting is required) 1 x PCI-X Adaptec ZCR slot (Optional)

Drive Bay:

- | | |
|-------------------|--------------------------|
| Hard Disk Drives: | • 8 x Hot-Swap SCSI HDDs |
| Floppy Drive | • 1 slim type Floppy |
| Slim Type CDROM | • 1 slim type CD-ROM |

-
- | | |
|----------------------|------------------|
| Cooling Fans: | • 3 X System Fan |
|----------------------|------------------|
-

Integrated LANs:

- | | |
|----------------------------|-----------------------------------|
| Controller | • Intel® 82545GM & Intel® 82541GI |
| Advanced Software Function | • Adapter Fault Tolerance |
| | • Adaptive Load Balancing |
-

Integrated Graphics:

- | | |
|-----------------|-------------------------------|
| Controller | • ATI® RAGE-XL VGA Controller |
| Graphics Memory | • 8MB SDRAM |
-

Integrated Super I/O:

- | | |
|----------------|--------------------------------------------|
| Serial Ports | • 1 x Serial Port COM1 (Rear I/O-Shield) |
| Keyboard/Mouse | • 1 x PS/2 Keyboard Port (Rear I/O-Shield) |
| | • 1 x PS/2 Mouse Port (Rear I/O-Shield) |
| USB: 1.1 | • 2 x USB ports (Rear I/O-Shield) |
| | • 2 x USB Port (Front Panel) |
| VGA Connector | • 1 x VGA connector (Rear I/O-Shield) |
| LAN Ports | • 2 x RJ45 LAN ports (Rear I/O-Shield) |
-

System BIOS:

- | | |
|------------------|-------------------------------------------------------------|
| BIOS Type | • AWARD BIOS, Multi-boot BBS 1.0 Compliant 4Mb Flash Memory |
| Special Features | • ACPI 1.1, DMI, PXE, Plug and Play, A/C Power Recovery |
-

Server Management Functions

- | | |
|-------------------|----------------------------------------------------------|
| BMC Chip | • NS IPMI 1.5 controller |
| Failure Detection | • IPMI 1.5 specification of Server management |
| Event Logging | • 32KB Nonvolatile Memory to Log System Failure Events |
| Remote Management | • Follow the IPMI 1.5 specification of Server management |
-

Environment

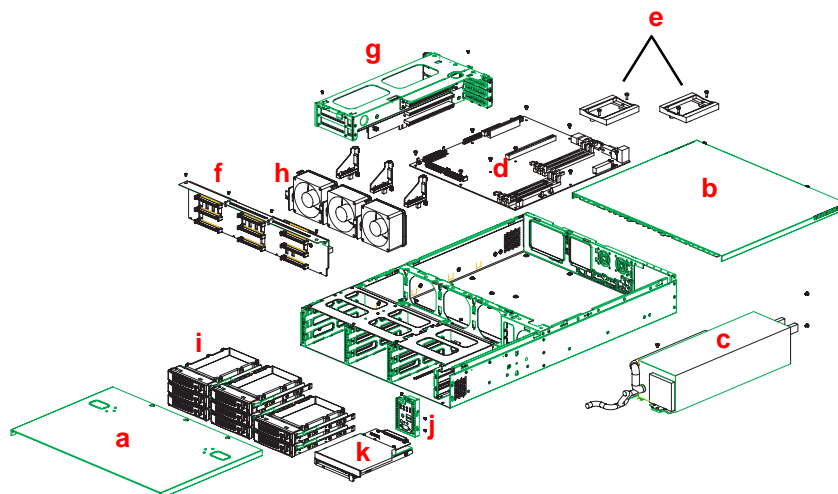
- | | |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Ambient Temperature | <ul style="list-style-type: none">• Operating Temperature: 5°C to 35°C• Non-operating Temperature: 0°C to 50°C |
| Relative Humidity | <ul style="list-style-type: none">• 10-85% operating Humidity at 30°C |

-
- | | |
|---------------------------|---------------------------------------------------------------|
| Safety Regulations | <ul style="list-style-type: none">• CE, FCC, UL |
|---------------------------|---------------------------------------------------------------|
-

Electrical Power Supply:

- | | |
|--------------------------|------------------------------------------------------------------------|
| AC Voltage and Frequency | <ul style="list-style-type: none">• 100V/240V; 47Hz/63Hz |
| DC Power Supply | <ul style="list-style-type: none">• 500W |
-

Chapter 2 System Overview



a.	Chassis front cover	g.	Riser card bracket
b.	Chassis rear cover	h.	System Fans x 3
c.	Single/Redundant Power supply	i.	SCSI HDD Trays x 8
d.	GA-7A8DRH Motherboard	j.	Front LEDs & Power Button
e.	Dual Sockets 940	k.	CD-ROM & Floppy Drives
f.	Backplane board		

Chapter 3 System Hardware Installation



Please observe the safety information in chapter “Important Safety Information.”
Do not expose the server to extreme environmental conditions. Protect it from dust, humidity, and heat.

Step 2-1: Chassis Removal

Front Cover:

Step 1 Push down the two buttons located at two sides of the chassis.

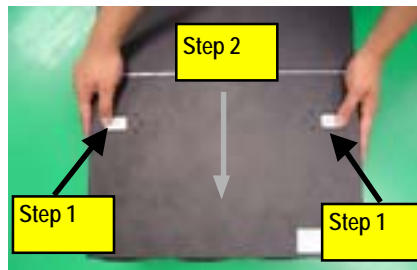
Step 2 Slide toward to remove the front cover.

Rear Cover:

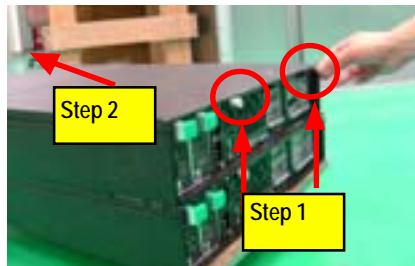
Step 1 Remove the two thumbscrews from back side of the system.

Step 2 Slide it toward to remove the rear cover.

Front Cover:



Rear Cover:



Step 2-2: CPU Installation

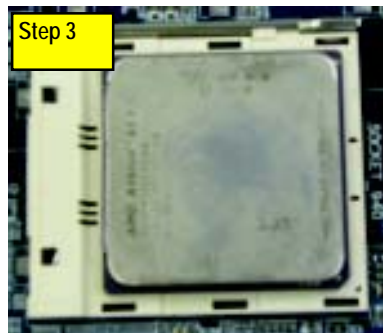
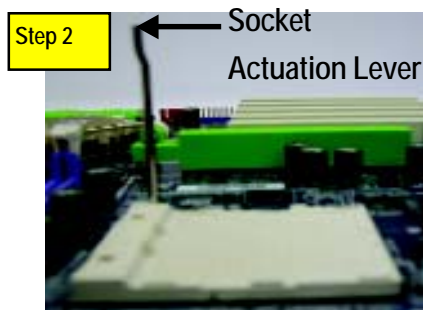
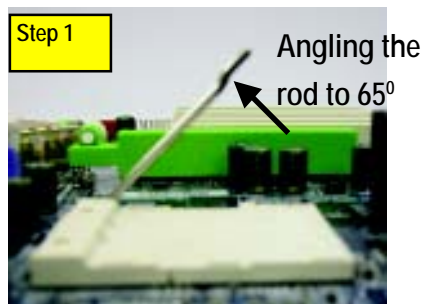


Please make sure the CPU type and speed that are supported by the motherboard.

Step 1. Rise the lever bar on the socket.

Step 2. Aligning the pins of the processor with the socket, insert the processor into the socket.

Step 3. Close the lever completely.



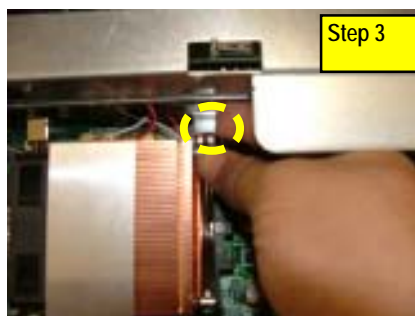
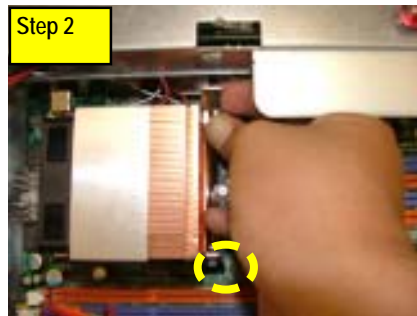
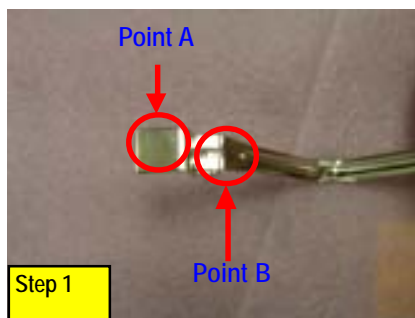
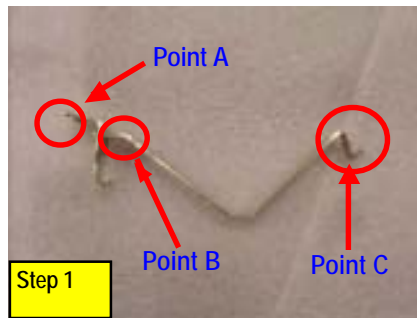
Step 2-3: CPU Heat Sink Installation

Step 1 CPU heat sink assembly clips.

Step 2 Attach the heat sink clip to the processor socket. Hook Point C into retention module

Step 3 Lift up Point A and push Point B into the remaining side of retention module.

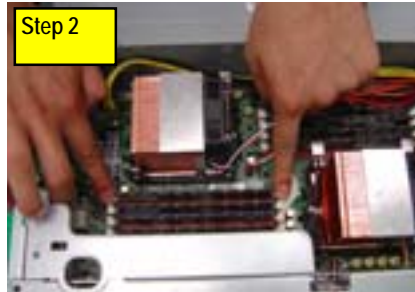
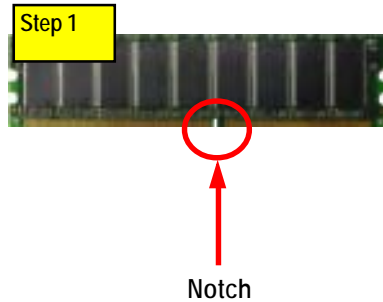
Step 4 Reverse the installation steps when you wish to remove the heat sink.



Step 2-4: Memory Installation

Step 1 The DIMM slot has a notch, the DIMM memory module only fit in one direction.

Step 2 Align the memory notch to the module and push the memory into the DIMM socket.



Step 2-5: PCI Expansion Card Installation

GS-SR275 provides expansion riser slots for four peripheral cards, three full-height 64bit/66MHz PCI-X slots and two low profile 64bit/66MHz PCI slots. To install the peripheral, please go through the following steps.

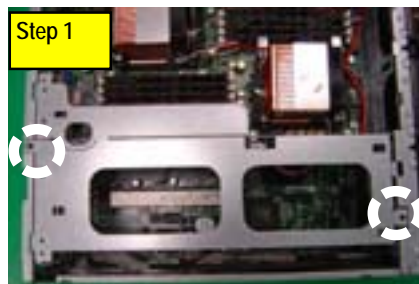
- Step 1 Remove the screws on the riser bracket.
- Step 2 Detach the riser bracket with both hands.
- Step 3 Installing the PCI Riser card. Align the expansion card with the guide groove. Slide the expansion board into the slot until the board firmly seats. Repeat **Step 2 & 3** to install the remaining add-on cards.

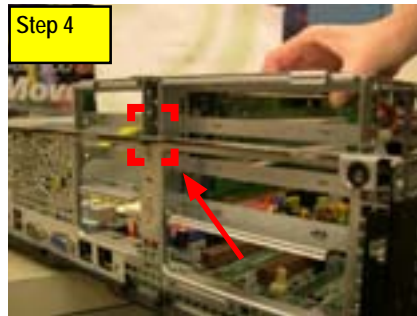
Note: When you insert ZCR card, the third full-heightfull-length slot can not work properly.
When you insert 1~3 expansion cards, the performance of the riser card will be 64bit/66MHz,
and if you insert 4 and more expansion cards, the preformance of riser card will be 64bit/33MHz.

Note: To adjust the speed of expansion cards, please refer to **page 25** for riser card jumper setting and location.

- Step 4 Align the stable racks to the system module (see the arrow direction mark), and push down vertically.

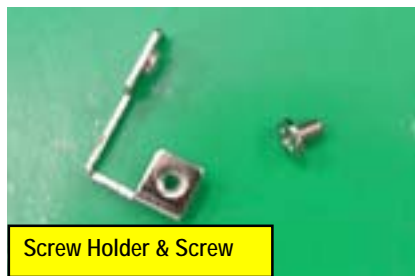
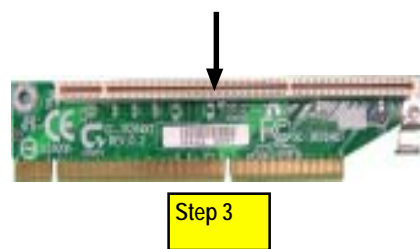
- Step 5 Reverse Step 1 & 2 to secure the riser bracket firmly. Installation completed.

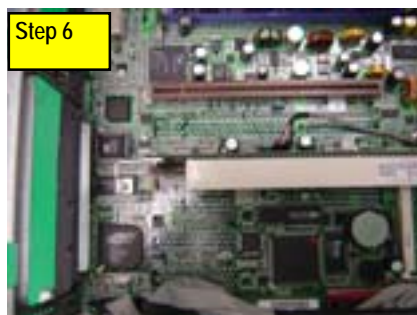
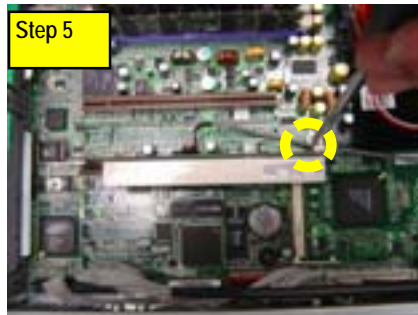
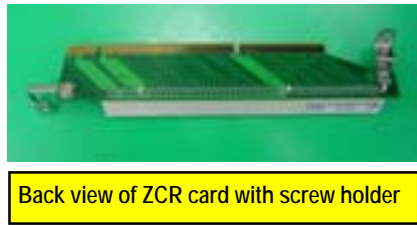
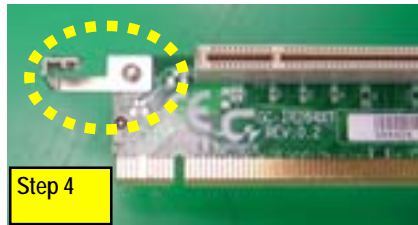




Step 2-6: PCI-X ZCR Expansion Card Installation (Optional)

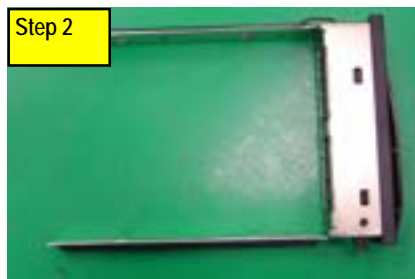
- Step 1 Remove two screws on the riser bracket.
- Step 2 Detach the riser bracket with both hands.
- Step 3 Push riser card into the ZCR slot.
- Step 4 Lock riser card with screw and screw holders.
- Step 5 Attach the ZCR card to the system. Lock it with screw.
- Step 6 Reverse Step 1 & 2 to lock the riser bracket firmly. Installation completed.





Step 2-7: Hard Disk Drive Installation

- Step 1 Push the hard disk drive trail button.
- Step 2 Pull out the trail and remove the trail from the chassis.
- Step 3 Insert the hard disk into the trail.
- Step 4 Secure each hard disk drive with 4 screws.
- Step 5 After securing the hard disk drive with the screws, hold the hard drive handle at open position, place the tray into chassis and push the hard disk drive tray handle to the locked position.



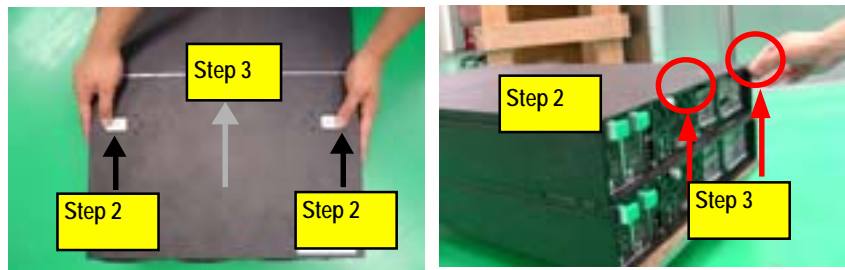
Step 2-8: Reinstall Chassis Cover

Front Cover:

- Step 1 Insert the front edge from 15 degree.
- Step 2 Close the cover in un-lock position.
- Step 3 Slide it toward to screw lock position.

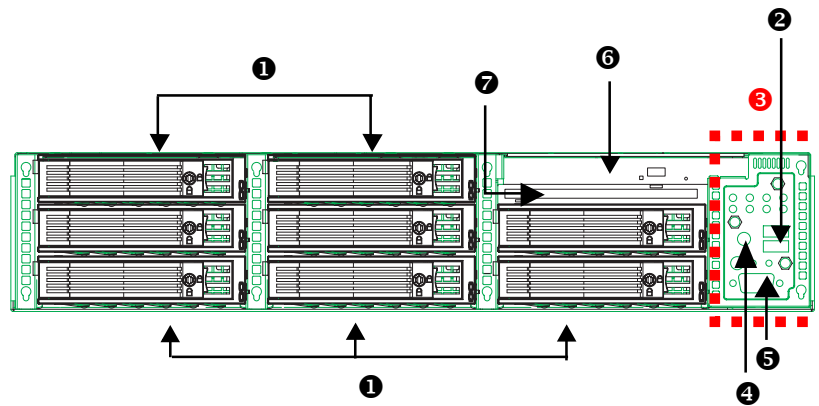
Rear Cover:

- Step 1 Close the cover in un-lock position.
- Step 2 Slide it to lock position.
- Step 3 Attach the two thumbscrews to the back of chassis. Secure the screw to lock position.



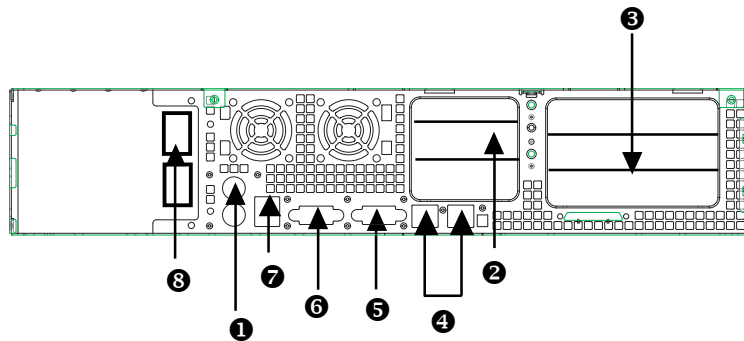
Chapter 3 Appearance of GS-SR275

3-1: Front View of GS-SR275



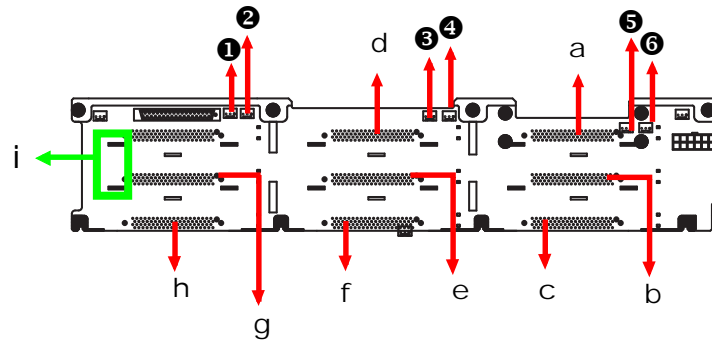
❶	8 Hot-Swap SCSI HDDs
❷	USB Connectors
❸	Front LED
❹	Power Button
❺	Front COM port
❻	CD-ROM Drive
❼	Floppy Drive

3-2: Rear View of GS-SR275



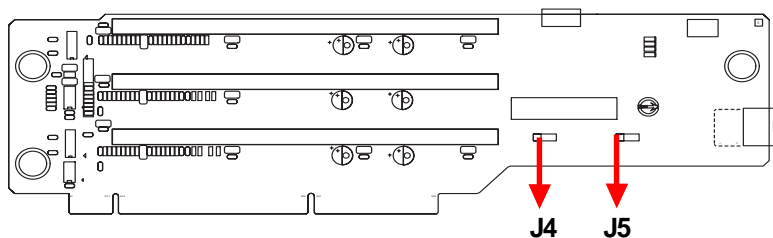
❶	PS/2 Keyboard & Mouse Connector
❷	Low Profile PCI-X Riser Slot
❸	Full-Height / Full- Length Riser Slot
❹	LAN 1 / 2 Ports
❺	VGA Port
❻	COM Port
❼	USB Connectors
❽	Power Connector

3-3: SCSI Backplane Layout and Description



a	SCA_1	i	Power
b	SCA_2	①	FAN 1
c	SCA_3	②	FAN 2
d	SCA_4	③	FAN 3
e	SCA_5	④	FAN 4
f	SCA_6	⑤	FAN 5
g	SCA_7	⑥	FAN 6
h	SCA_8		

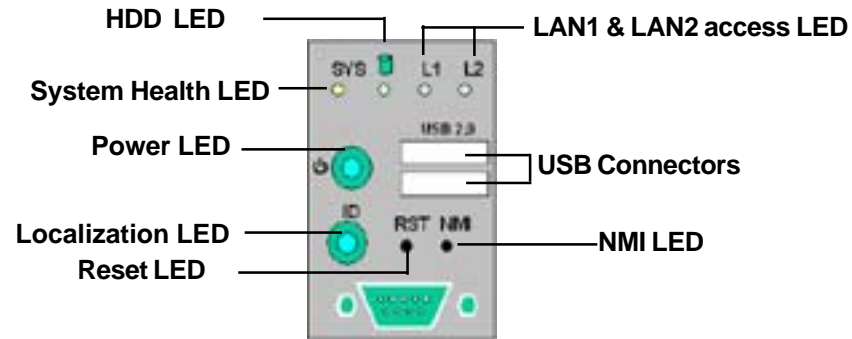
3-4: GC-IR264AT Jumper Setting



Please note: When you insert ZCR card, the third full-heightfull-length slot can not work properly. When you insert 1~3 expansion cards, the performance of the riser card will be 64bit/66MHz, and if you insert 4 and more expansion cards, the preformance of riser card will be 64bit/3c.

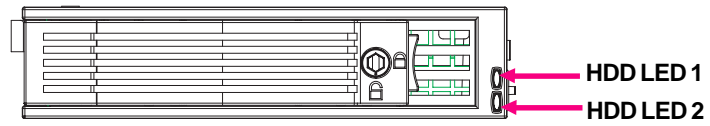
Speed	Jumper Setting
PCI-X-64Bit/66MHz (Default value)	J4 : 2-3 Closed J5 : 2-3 Closed
PCI-X-64Bit/33MHz	J4 : 1-2 Closed J5 : 1-2 Closed

3-5: Switch and LED Indicators Description









	Acting	Color	Status
Power LED	On	Green	Power On
	On	Amber	Power cable is plugged in
	Off	N/A	No power
SYS Health LED	On	Amber (Please check with GSMT User's Manual)	System is ready but degraded: some CPU Fault, Critical PowerModules Failure, Critical FANs Failure, Voltage (Power Supply), critical Temperature and Voltage
		Green	Normal operating
	Off	N/A	No power
LAN1&2 LED	On	Green	LAN online
	Off	N/A	LAN offline
	Blink	Green	LAN active
ID (Localization LED)	On	Blue	Identified by users
	Off	N/A	N/A

3-6: HDD LED Indicators Description



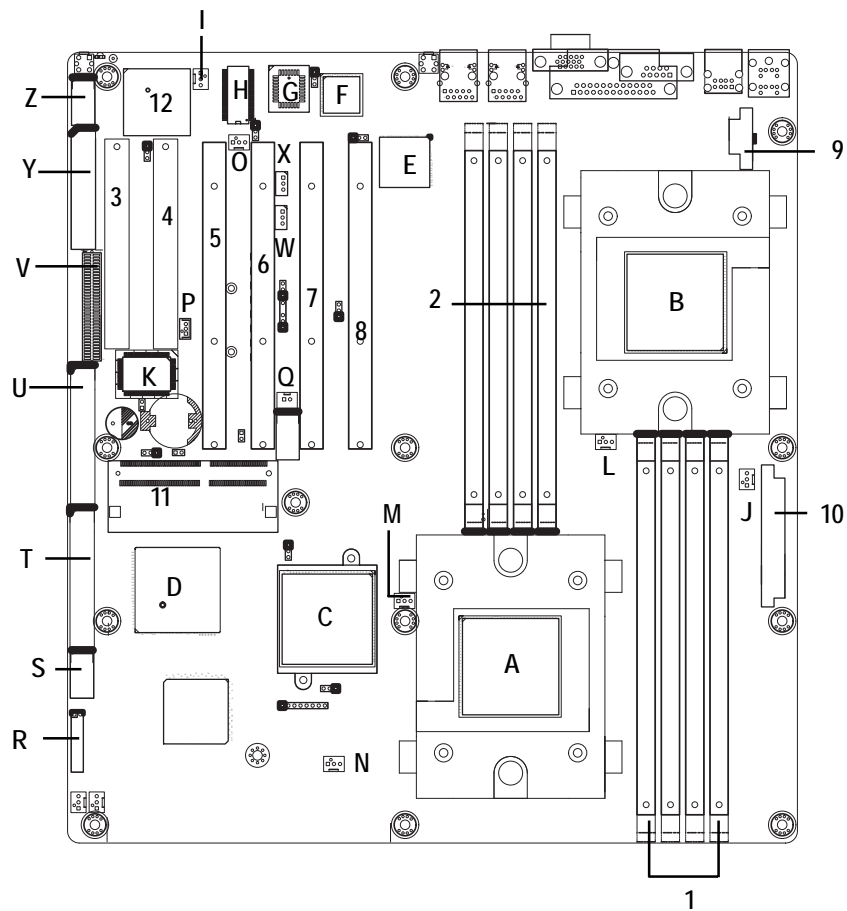
	Acting	Color	Status
HDD LED 1	Off	N/A	HDD power off
HDD LED 1	On	Green	HDD power on
HDD LED 2	Off	N/A	HDD non-active
HDD LED 2	Blink	Green	HDD active

3-7 : Connector Icon Description

Suggest Icon	Description
	Keyboard
	VGA
	Mouse
	LAN
	Serial Port
	USB

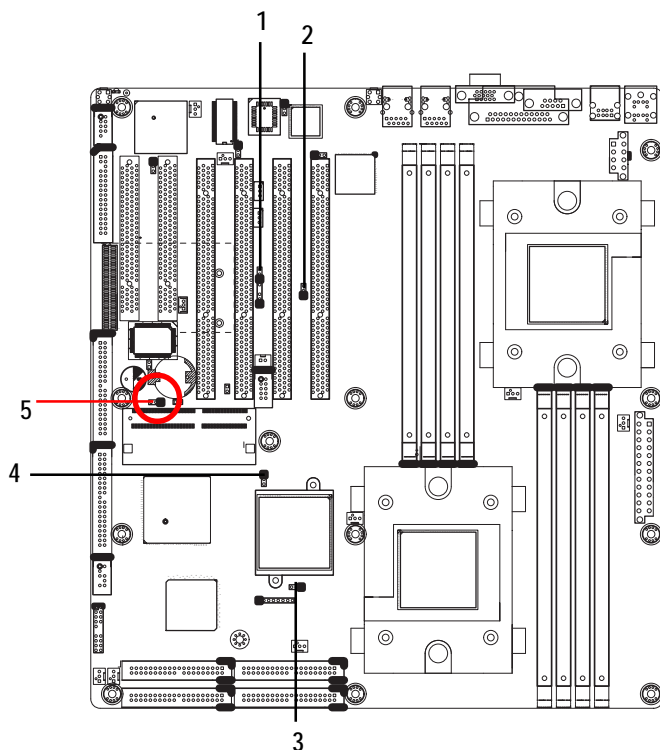
Chapter 4 Motherboard Layout and Jumper

4-1: GA-7A8DRH Motherboard Layout



A.	CPU1	1.	CPU1 DIMM 0~3
B.	CPU2	2.	CPU2 DIMM 0~3
C.	AMD8131	3.	PCI_6
D.	AMD8111	4.	PCI_5
E.	Intel 845GM	5.	PCI-X_4
F.	Intel 82541GI	6.	PCI-X_3
G.	BIOS	7.	PCI-X_2
H.	EM638325TS-6	8.	PCI-X_1
I.	PWR_FAN2 (Power Fan)	9.	ATX2 (SSI power connector)
J.	PWR_FAN1 (Power Fan)	10.	ATX1 (SSI power connector)
K.	ITE8712	11.	ZCR_CON1 (SCSI connector)
L.	CPU_FAN2 (CPU Fan)	12.	ATI_Rage XL
M.	CPU_FAN1 (CPU Fan)		
N.	SYS_FAN2 (System Fan)		
O.	SYS_FAN1 (System Fan)		
P.	WOL		
Q.	WOM		
R.	Front Panel		
S.	USB1 (Front USB)		
T.	IDE2		
U.	IDE1		
V.	GSMI (IPMI)		
W.	IPMB2		
X.	IPMB1		
Y.	FDD1		
Z.	COMB		

4-2: GA-7A8DRH Motherboard Layout



1) JP1

4) JP7

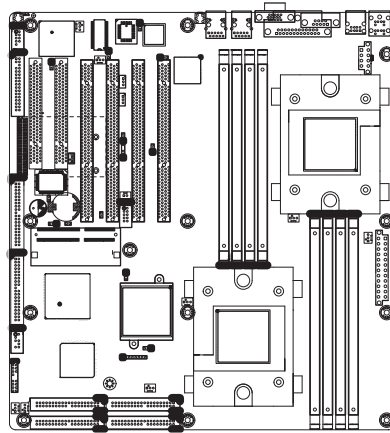
2) JP2



5) CLR_CMOS1 (Clear CMOS)

3) JP4

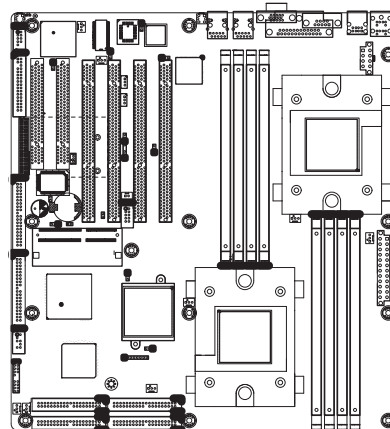
	PCI-X 66MHz	PCI-X 100MHz	PCI-X 133MHz
PCI-X 1.2 82545GM	JP2 PIN2-3 short	JP2 PIN1-2 short JP7 PIN1-2 short	JP2 PIN1-2 short JP7 PIN2-3 short
PCI-X 3.4 SCSI 7902	JP1 PIN2-3 short	JP1 PIN1-2 short JP4 PIN1-2 short	JP1 PIN1-2 short JP4 PIN2-3 short



1) JP1 (PCI-X Bus Speedy Function)



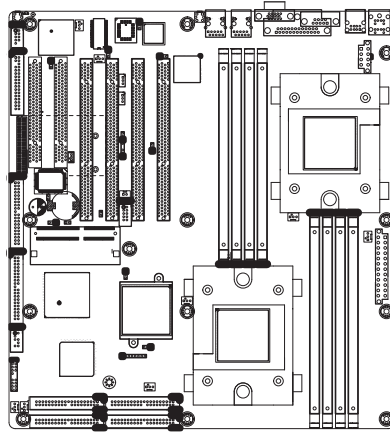
- 1  1-2 close: Enable PCI-X 3 & 4 and SCSI 100/133 Mhz (default)
- 1  2-3 close: Enable PCI-X 3 & 4 and SCSI 66Mhz



2) JP2 (PCI-X Bus Speedy Function)



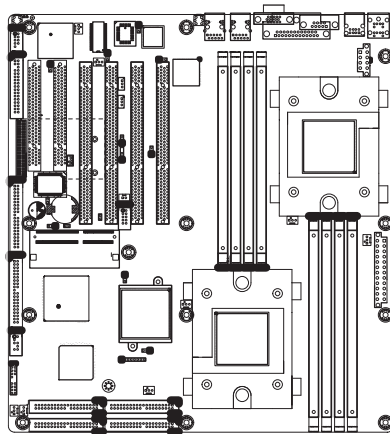
- 1  1-2 close: Enable PCI-X 1 & 2 and 545GM 100/133 Mhz (default)
- 1  2-3 close: Enable PCI-X 1 & 2 and 545GM 66Mhz



3) JP4 (PCI-X Bus Speedy Function)



- 1  1-2 close: Enable PCI-X 3 & 4 and SCSI at 100 Mhz (default)
- 1  2-3 close: Enable PCI-X 3 & 4 and SCSI at 133 Mhz

4) JP7 (PCI-X Bus Speedy Function)

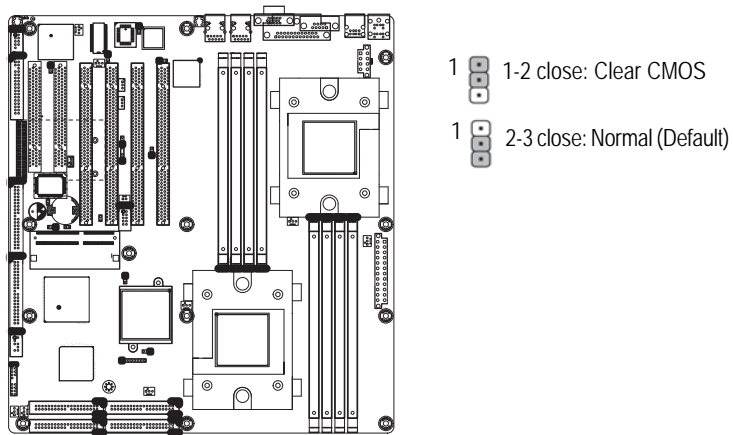


- 1  1-2 close: Enable PCI-X 1&2 and 545GM 100 Mhz (default)
- 1  2-3 close: Enable PCI-X 1 & 2 and 545GM 133 Mhz

5) CLR_CMOS1 (Clear CMOS Function)

You may clear the CMOS data to 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.



** Recommendation frequency setting and slot:

Mode	Frequency	Maximum slots or devices (on board)
PCI-X	133	1
PCI-X	100	2
PCI-X	66	3
PCI	66	3

Chapter 5 Appendix

5-1: Acronyms

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

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