GS-SR326

Rack Mount / Tower

System Installation Guide

Dual Xeon™ Processor Motherboard / Server Solution

Rev. 1001

22ME2-SR326-00

Table of Content

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, ot 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 present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de Classe B prescrites dans le reglement sur le brouillage radioelectrique edicte 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 resent 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 /

Introduction

Welcome to the Gigabyte GS-SR326 Rack mount / Tower Server System Installation Guide. The guidebook provides instructions for configuration hardware for the GS-SR326 to your system.

This installation guide will assiste 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 assusme that your are a system or network administrator experienced in installing similar hardware.

Item Checklist

- ☑ Chassis
- ☑ The GA-8EGXDR motherboard
- ☑ Silm type Floppy drive (Installed)
- ☑ Two CPU Heat Sinks
- ☑ GA-8EGXDR user's manual
- ☑ Accessory Kits
- ☑ Power Supply (Installed)
- ☑ Silm ype CD-ROM drive (Installed)
- ☑ Six Hadr Disk Drive Trays
- ☑ Driver CD for motherboard driver & utility
- ☑ SR326 System Installation Guide

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.

Chapter 1 Introduction

Features Summary

Motherboard	• GA-8EGXDR
CPU	• Dual socket 603 for Intel® FC-PGA Xeon processor suopprts 1.8 GB to 2.8GB and upper • Intel Pentium®4 Xeon 400MHz FSB • 512KB internal cache depend on CPU
Chipset	• Serverworks CMIC-SL Northbridge • Serverworks CIOB-X2 PCI-X Bridge • Serverworks CSB6 Southbridge
Memory	• 4 184-pin DDR DIMM sockets • Supports 4 ECC Register DIMM DDR200 • Supports up to 4 GB DRAM (Max)
Network Interface	• Build-in Intel 82550PM 10/100 Fast Ethernet
Intelligent Management	• Support IPMI V1.0 (Optioal)
RAID Supported	• Support LSI software IDE RAID 0,1,5 **(Optional)**
Mass Storage System	• 6 Hot-Swappable SCSI HDD • One slim type flexible FDD Drive • One silm type CD-ROM drive
I/O Expansion Slots	• PCI-X 100MHz x 2 slots • PCI 64/66 MHz x 2 Slots • PCI 64/33 MHz x 1 Slot • PCI 32/33 MHz x 1Slot

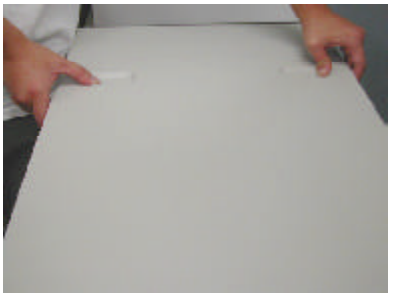
to be continued.....

Buiild-in I/O Ports	• One Floppy port (up to 2.88MB) • One Parallelport (EPP/ECP) • Two Serial ports • 4 USB ports Version 1.1 • One RJ45 LAN ports • PS/2 Keyboard and Mouse connectors
BIOS	• Licensed Award BIOS, 4Mb flash ROM
Power Supply	• Maximum 350W redundant Power Supply supported

Chapter 2 System Hardware Installation

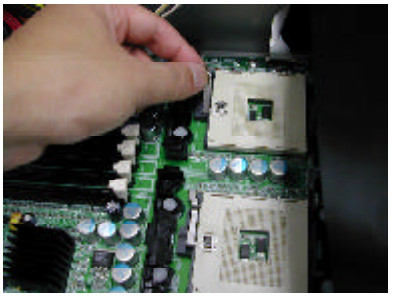
PLease remove the protective thin films (top and button) from the server when installing.

Step 2-1: Chassis Removal



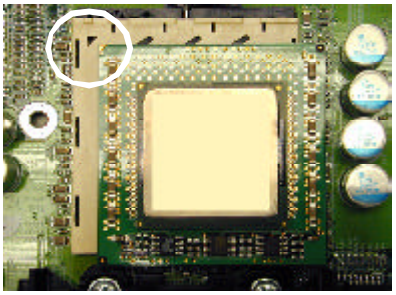
1. Push down the two buttons located at two sides of the chassis.
2. Gently apply force to the indentures with your thumbs and push toward the chassis to remove the top cover.
3. After removing the top cover, you can install CPU and other essential components.

Step 2-2: CPU Installation

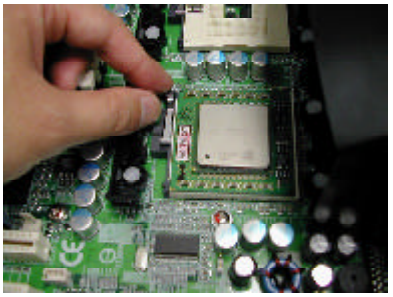


1. Please make sure the CPU type and speed that are supported by the motherboard.
2. To install the CPU(s), lift up the bar that located next to the socket.

3. The noticed corner should point toward the end of lever. The CPU will only it in the orientation as shown below.

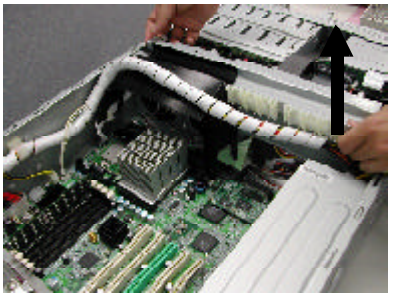


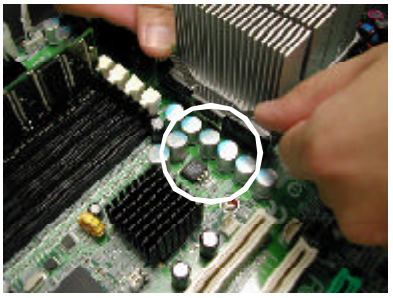
4. Then, align the CPU and insert it into the socket. Then, push the lever to the original position.



Step 2-3: Heat Sink Installation

1. Put the heat heak on the retention module. Unscrew and pull up the holding bracket.



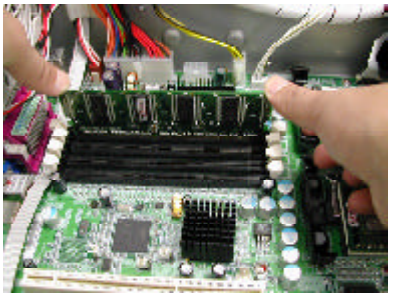


2. Hook one end of the cooler bracket to the CPU. Make sure middle part of bracket is clicked into the desired position. Then, hook the other end of the cooler bracket by gripping it to another side of retention module

Step 2-4: Memory Installation

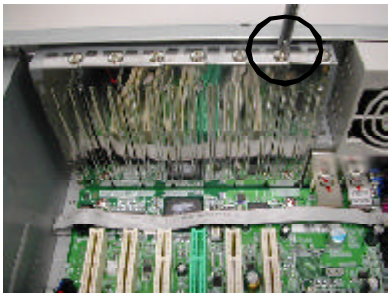
1. The DIMM slot has a notch, the DIMM memory module only fit in one direction.

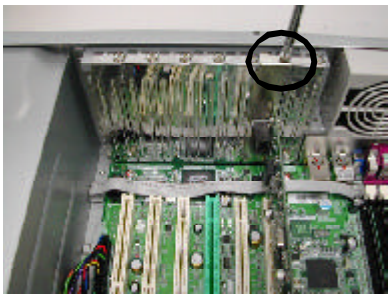
2. Align the memory notch to the module and push the memory into the DIMM socket.



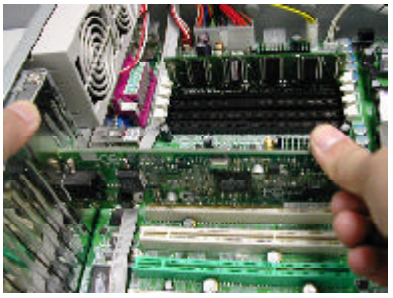
Step 2-5: PCI Expansion Card Installation

1. Remove the screw on the top of the bracket.





2. Push the expansion card firmly into expansion slot in motherboard.

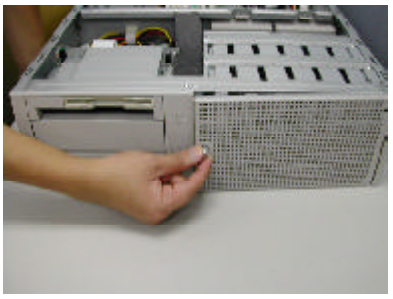


3. Replace the screw to secure the slot bracket of the expansion card.

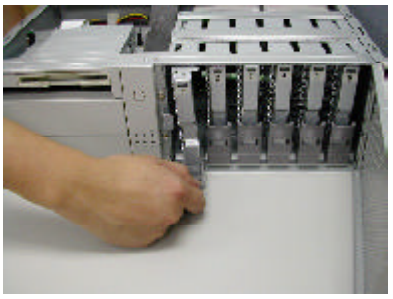
4. Installation is completed.

Step 2-6: Hard Disk Drive Installation

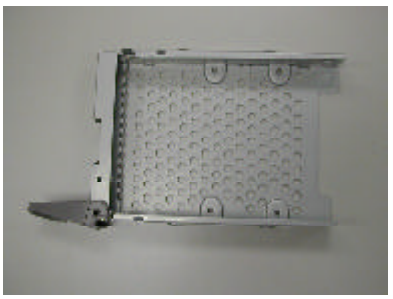
1. Uncrew the thumbscrew from the front of server.



2. Pull out the Hard Disk try.

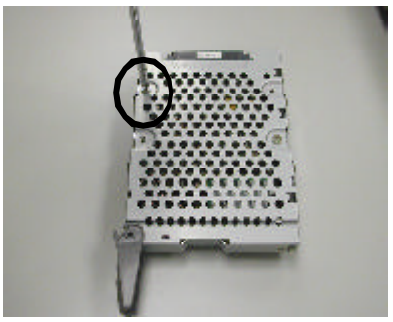


3. Hard Disk Tray

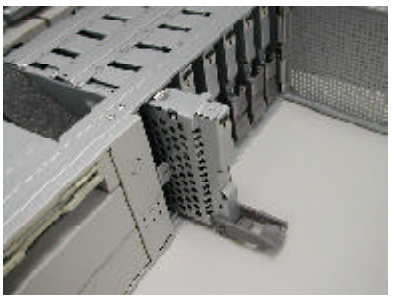


4. Place hard disk into the hard disk tray.

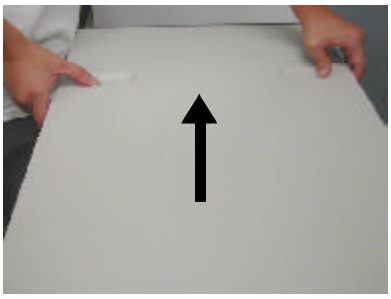
5. Secure hard disk in the hard disk tray with screws. For security reason, you should tighten all screws into the pointed position.



6. Relace hard disk tray into the server. Installation completed.



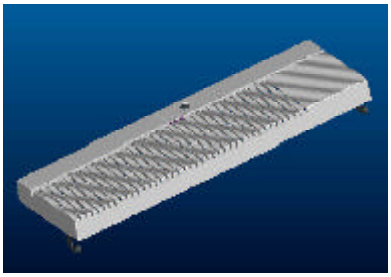
Step 2-7: Reinstall Top Cover



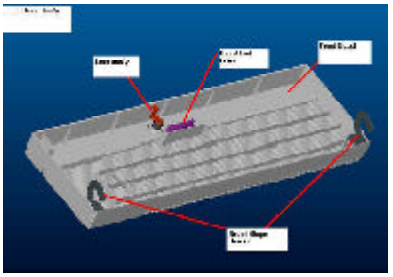
1. Gently apply force to the indentures with your thumbs and push toward the chassis to replace the top cover.

Step 2-8: Accessory Kits Installation

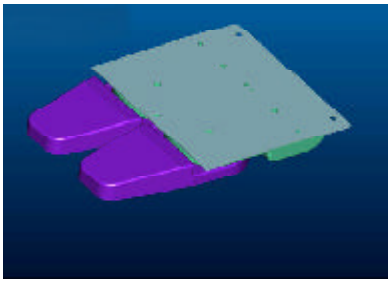
1. Accessory kits introduction.



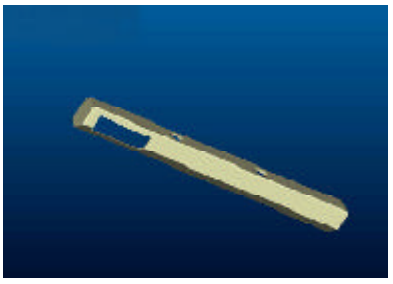
Front view of bezel welding LED



Rear view of bezel welding LED

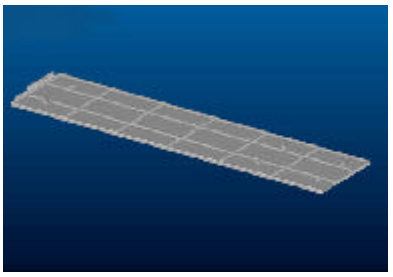


Foot-stand plates



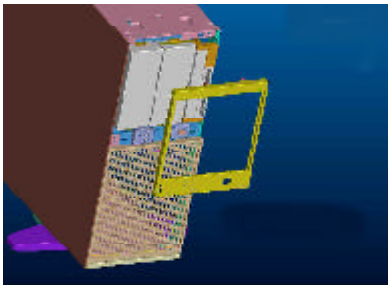
Hinge cover asscessory

Lock bracket

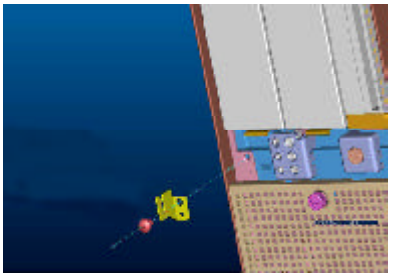


Top plastic cover

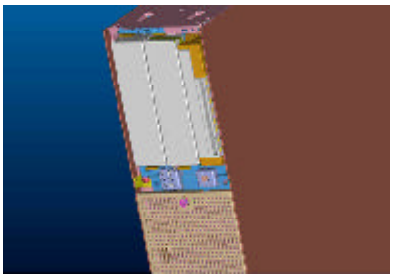
2. Remove CR-R door.



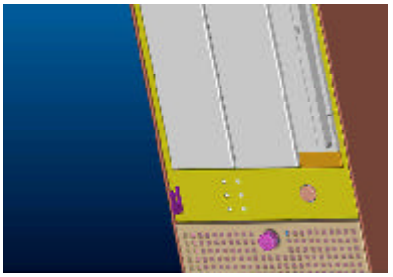
3. Secure lock-bracket with screw.



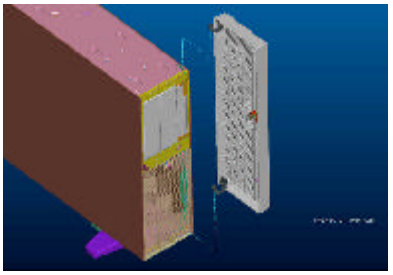
4. Make sure lock-bracket is firmly screwed.

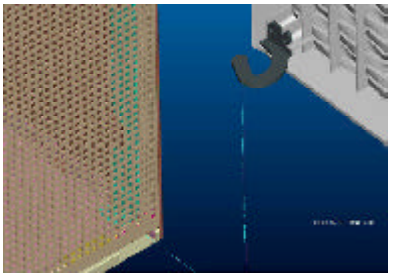


5. Reinstall CR-R door.

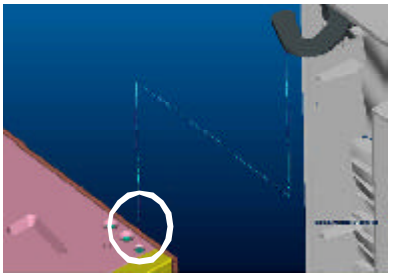


6. Follow the direction shown in the picture to install the front bezel.



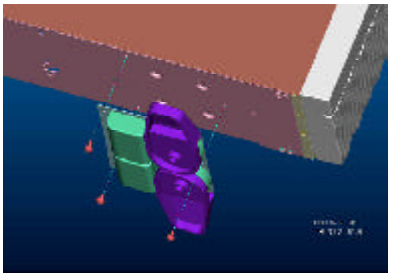


7. Gripping the hook into the system as the cip circle pointed.

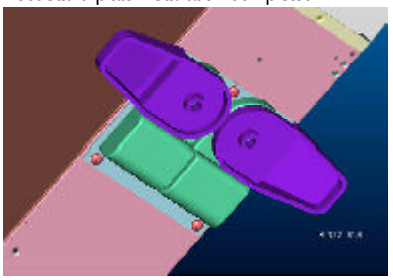


8. Then, push the other side of bezel LED into the system.

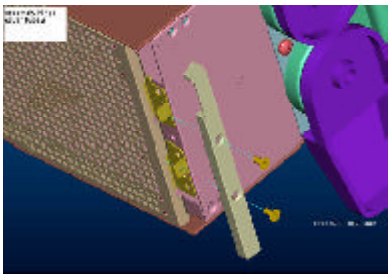
9. Secure foot-stand plate with screws.



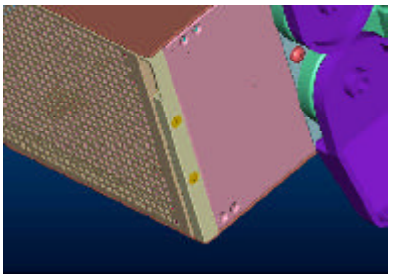
10. Foot-stand plate installation completed.



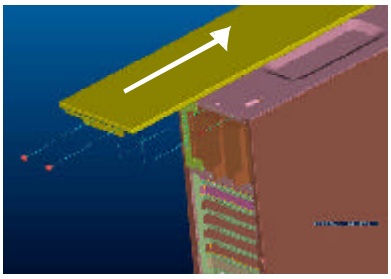
11. Assembly hinge cover acccseeory with 2 screws.



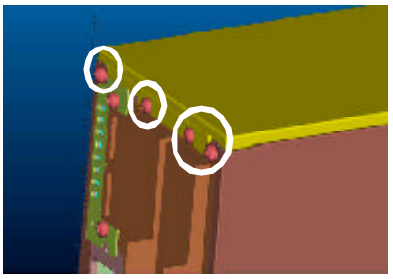
12. Installation completed.



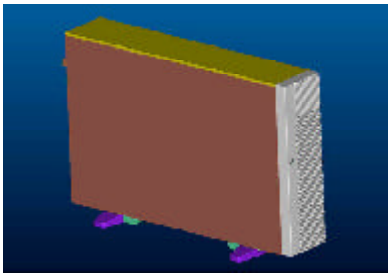
13. Insert top plastic cover follow the arrow direction.



14. Secure the cover with srews as the clip circles show.

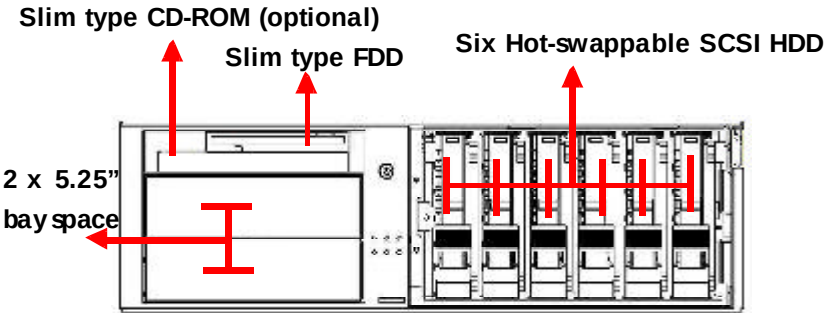


15. Accessory kits installation completed.

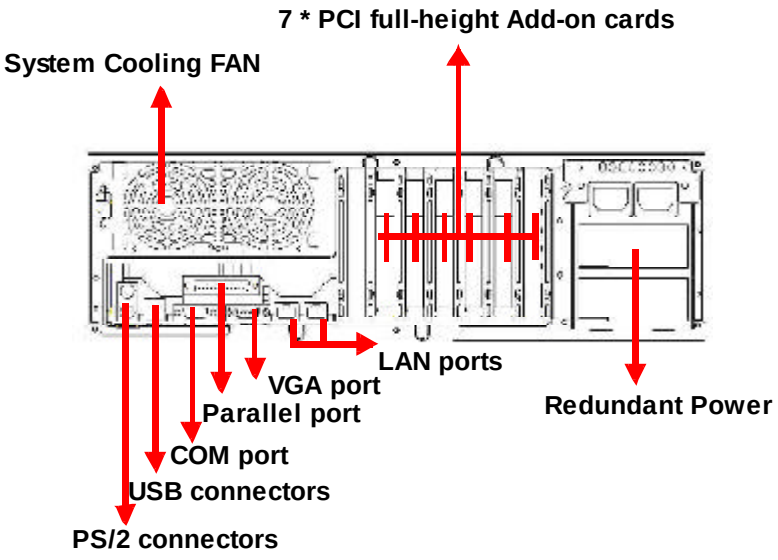


Chapter 3 Appearance of GS-SR326

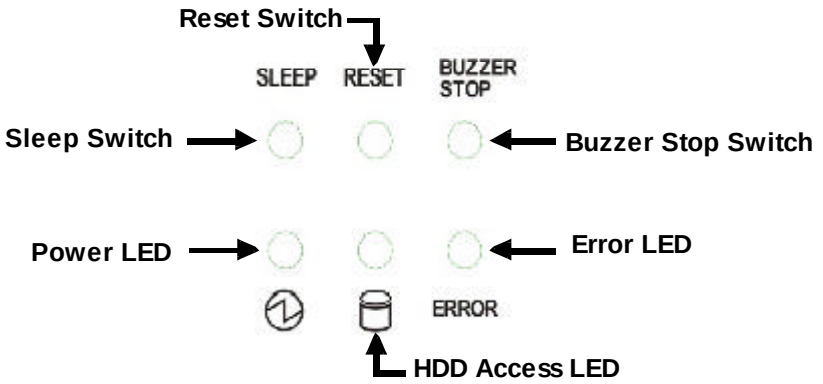
3-1: Front View of GS-SR326



3-2: Rear View of GS-SR326



3-3: Switch and LED Indicators Description



	Acting	*Color*	*Status*
Sleep Switch	Push Gently	N/A	Sleep mode
Reset Switch	Push Gently	N/A	Reseting
Buzzer Stop Switch	Push Gently	N/A	Buzzer stop
Power LED	On Off	Green N/A	System power on System power off
HDD Access LED	Blink Off	Green N/A	HDD accessing HDD idle
ERROR LED	On Off	Amber N/A	System error occurs System status normal

Chapter 4 Appendix

4-1: Connector Icon Description

Suggest Icon	Description
	Keyboard
	VGA
	Mouse
	LAN
	Parallel Port
	Serial Port
	USB