GS-SR104
Rack Mount Server
System Installation Guide

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1. INTRODUCTION

1.1. Preface

Using this manual will help you get the most from your Rack Mount Server. Keeping the manual with your Rack Mount Server to refer when you want information and help.

In order to get the optimal usage out of your Rack Mount Server and you should Remember the following:

- Read through all the instruction for your Rack Mount Server .
- Keep the area free of static electricity and magnetic fields. These can damage the Serve .
- When cleaning the server or its components, apply the proper cleaning solutionor sprays only on the cloth ,not to the server or its components .

1.2. Features

Our Rack Mount Server use 1U Chassis and support the following features:

Processor Support

- Single Socket 370 for Intel Coppermine ‘ Celeron (0.13 u) and Tualatin processor
- Up to 1 GHz and above
- Optimal CPU Keep Out Zone for Type C Heat-sink
- 100/133MHz FSB

- AUTO detect CPU voltage

BIOS

- Award BIOS 2M bit flash ROM
- Auto configure IDE HDD type
- Multiple boot options
- User setting for hardware monitoring
- DMI 2.0 compliant

Chipset

- VIA Apollo Pro Family AGP set (VT82C694T ,VT82C686B) Chipset
- ATI Rage XL VGA Chip with 8MB Video Memory
- Intel 82559 Dual LAN chip

Memory Support

- 2 x 168-pin 25 degree DIMM sockets for SDRAM modules
- Supports PC-100/PC-133 either un-buffered or registered memory and VCM SDRAM
- Supports up to 2GB SDRAM
- Supports only 3.3V SDRAM DIMM

Storage Controller

- Max 2 IDE ATA channels (2 x ATA-100)
- 44MB Floppy Disk Drive
- High Speed IDE CD-ROM Drive (Slim type)

Networking

- On board dual LAN , Ethernet 10/100 WOL (Wake On LAN)
- Adaptive fail over feature
- Load balance feature

I/O Expansion Slot

- PCI riser , 1 slot ,support 33MHz & PCI 2.2 compliant

Build-in I/O ports

- 1 x PS/2 Keyboard port
- 1 x PS/2 Mouse port
- 2 x COM port (1 x back side and 1 x front side)
- 1 x VGA port
- 1 x LPT port
- 2 x RJ-45 ports
- 2 x USB ports

Power

- Total output power 150 W
- Input : Rating switch full range 90V~250V 47~63 Hz

Operating Temperature

- 5 to 35 degree C

Thermal Solution

- Special-designed Heat-sink and hi-efficiency chassis fans for dual 1 GHz plus processor thermal solution

Chassis Dimensions

- Height 44 mm (1.73 In.)
- Width 482.6 mm (19.0 In.)
- Depth 495.3 mm (19.5 In.)

2. Hardware Inventory

When you unpack your GS-SR104 Rack Mount Server ,Check that all the items that you ordered are present in good condition. Review the inventory checklist below to be sure that the components and optional components that you ordered are included. If anything is miss or damage ,contact your retailer as soon as possible.

- Chassis
- Power Supply (Installed)
- Motherboard GA-6VTMR (Installed)
- Power Cord x1
- Manual (M/B User's Manual & System Installation)
- Flat Screw # 6-32 * 5L x 12 (For HDD)
- Heat sink x 1
- Case Handle x 2
- Flat Screw M4*10L x 4 (For Handle)
- Support CD x1
- Support Floppy Disk x 2

3. System Installation Procedures

Warning: Please remove the protective thin films (Top and Bottom) from the system when installing.

3.1. Chassis Cover Removal

a. Unscrew the two thumbscrews from top cover of the system (Fig-1).

b. Standing at the front of the system. Gently apply force to the indentures with your thumbs and push toward the rear of the chassis for about 3/4 of an inch. Top cover may be lifted straight up (Fig-2).

Fig-1

Fig-2

c. With the top cover removed, you will see a transparent plastic air duct over the CPU and Memory. Remove the air duct to install the CPU and Memory (Fig-3).

Fig-3

3.2. CPU Installation

Lift the ZIF (Zero Insertion Force) socket lever up 90 degree. Insert CPU into the socket. Make sure CPU is seated properly, then push the level back to the original locked position. (Fig-4 and Fig-5)

Fig-4

Fig-5

3.3. Heat Sink Installation

Place the heat sink on top of the CPU with the clip handle on the same side as DIMM slot . Clip one side (without handle) onto the CPU socket's hook and gently push the other side of the clip (with handle) on to the opposite side of the CPU socket's hook. (Fig-6)

Fig-6

3.4. Memory Installation

The motherboard contains four slanted DIMM (Dual Inline Memory Module) sockets. The system BIOS will auto detect the size of the memory. To install memory simply push the memory modules into the DIMM sockets. (Fig-7) After that re-install a plastic air duct into system .(Fig-8)

Fig-7

Fig-8

3.5. Hard Disk Drive Installation

a. First, remove the screw on the top of the

cable plate.(Fig-9)

b. And then remove the screw from Hard Disk Plate.(Fig-10)

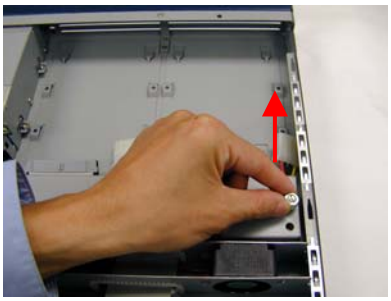


Fig-9

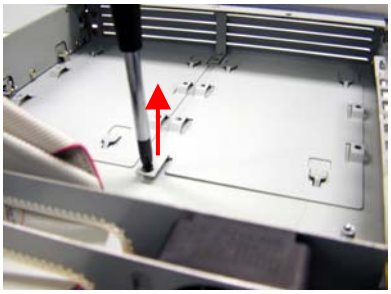


Fig-10

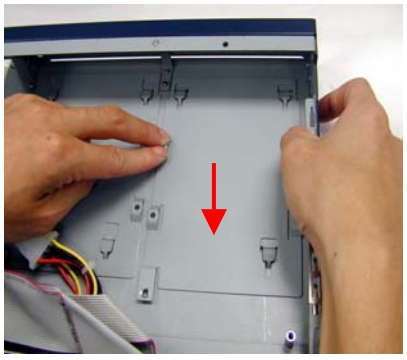


Fig-11

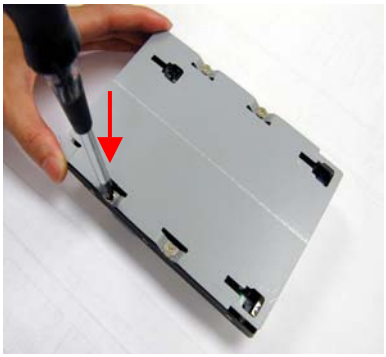


Fig-12

c. Carefully remove the Hard Disk Plate from system . (Fig-11).

d. Put Hard Disk Drive on to Hard Disk Plate and secure each hard disk drive with screws . (Fig-12)

e. Re-install the Hard Disk plate with Hard Drive into system and secure each hard disk plate with screw . (Fig-13)

f. Connect the Power cable to Hard Drive. (Fig-14)

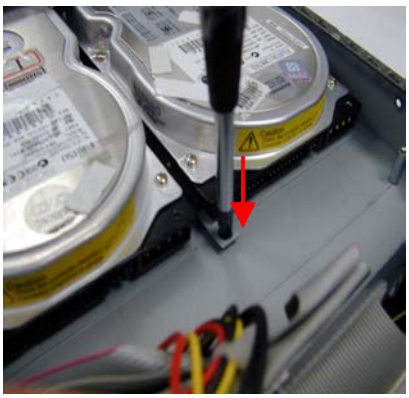


Fig-13

Fig-14

g. Connect signal cable to Hard Drive . (Fig-15)

h. After connect the power and signal cable to each hard drive , please re-install the cable plate with screw . (Fig-16)

Fig-15

Fig-16

3.6. PCI Expansion Card Installation

GS-SR104 provides two PCI slot on the one expansion raiser card for a peripheral card . One PCI slot supports standard PCI card and other slot for low profile PCI card .

Attention : GS-SR104 low profile slot only provides MD1 form factor [length : 121.79mm (4.795 inch) and width : 58.09mm(2.287inch)]

a. First, remove the screws located at the rear . (Fig-17 & Fig-18)

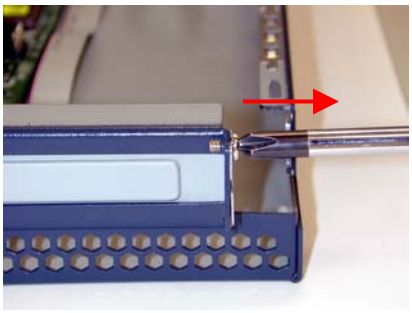


Fig-17

Fig-18

b. And then install the PCI card into place and secure the card with screw .(Fig-19 & Fig-20)

Fig-19

Fig-20

3.7. Reinstall Top Cover

When you are finish installing all the essential components from above step , re-install the top cover to the system .(Fig-21)
And then secure with screws from top side .
(Fig-22)

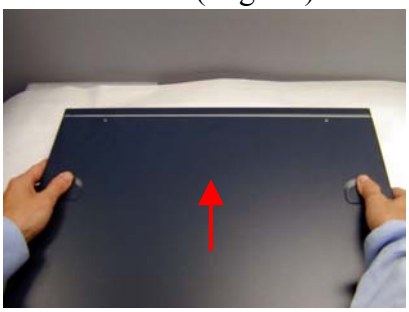


Fig-21

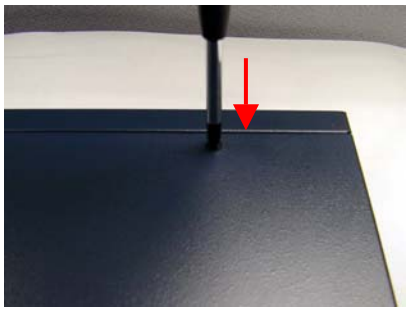


Fig-22

3.8. Dock Handles Installation

Remove dock handles from the package. Put two on each side of the chassis, secure with screws provided (Fig-23).

Fig-23

3.9. Front Panel

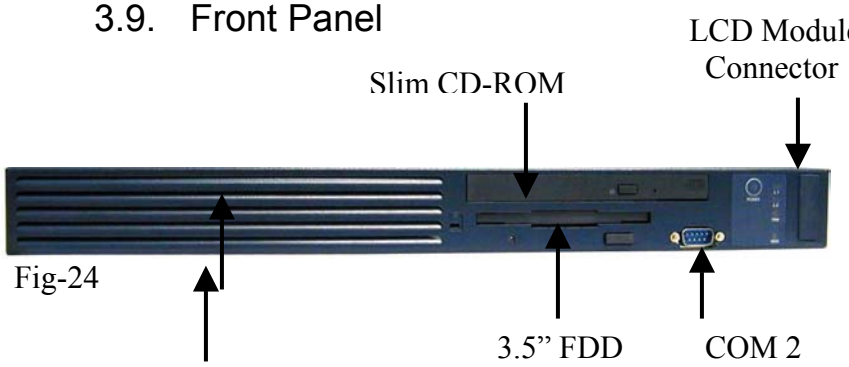


Fig-24

LED Panel

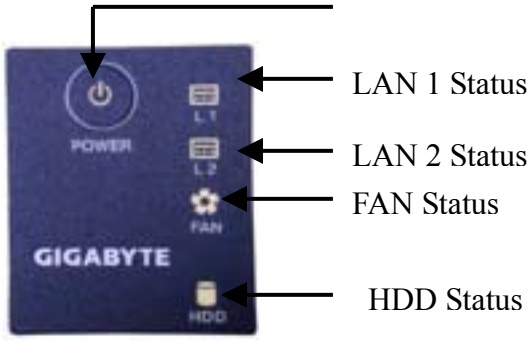


Fig-25

Power LED : Green—Online
Off—Offline
LAN LED : Green—Online
Off—Offline
Flashing—LAN Activity
Fan LED : Orange— Fan fail
Off—Normal
HDD LED : Flashing – Data Access
Off - Normal

3.10. Rear Panel

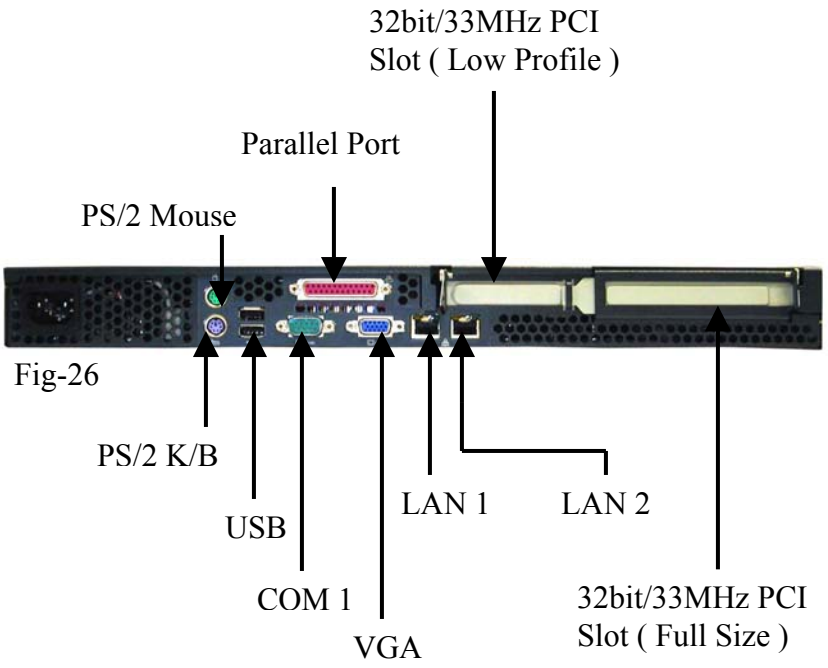


Fig-26

3.10.1. LCD Module Installation (Optional)

LCD module including LCD module ‘ locker and screw . Fig-27

First , put locker into the case . Fig-28

Fig-27

Fig-28

And then LCD module cable connect to system connector . (Fig- 29)
After that install the LCD module and secure with screw . (Fig-30)

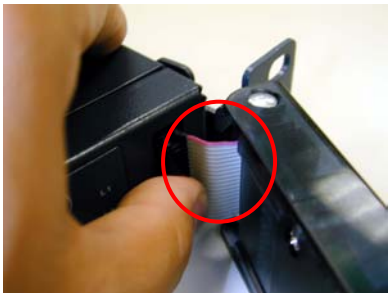


Fig-29

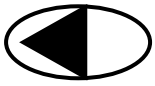
Fig-30

3.10.2. LCD Module Setting Instruction

The **Up** arrow button for menu selection and increase the digit number and character located at the cursor position .

The **Down** arrow button for menu selection and decreases the digit number and character located at the cursor position .

The **Right** arrow button moves the cursor to the right .



The **Left** arrow button moves the cursor to the left .

The **Enter** accepts the selection.

3.10.3. LCD Display Information

LCD screen will show the following information:

(1) Host Name
(2) LAN 1 IP address
(3) LAN 2 IP address
(4) FAN speed
(5) CPU temperature
(6) Hard Disk space
(7) Virtual Memory capacity
(8) Physical Memory capacity
(9) System time

3.10.4. Using the LCD module

LCD module serves following purposes ;

(1) Configure the LAN 1 IP address ‘ Netmask and Gateway .
(2) Configure the LAN 2 IP address ‘ Netmask and Gateway .
(3) Display time setting (Default 2 sec)
(4) Display information menu : user can setting which information will be show or not .
(5) Reboot system .
(6) Power off system .
(7) Return to display information
(8) System time setting

3.11. Connector Icons

Suggested icons	Description
	Keyboard
	VGA
	Mouse
	LAN
	Parallel Port
	Serial Port
	USB