GR-ES604

Server / Storage Server

Quick Installation Guide

Ver: 1.0

Table of Contents

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.

Precautions for Products 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.

Precautions for Products 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 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 /

European Community Directive Conformance Statement

This product is in conformity with the protection requirements of EC Council Low Voltage Directive (Safety) 73/23/EEC, EMC Directive 89/336/EEC on the approximation of the laws of the Member States relating to electro-magnetic compatibility.

R&TTE Directive (applicable to products fitted with European modems)

This modem does not require any physical and/or software additional switch settings from the User and is suitable for use only on telephone lines provided with Multi-Frequency Dialing facilities.

The equipment has been approved in accordance with Council Decision 99/5/EC on radio equipment and terminal telecommunication equipment and the mutual recognition of their conformity.

Chapter 1 Packing List

Packing content list
1. GR-ES604 system * 1
2. Quick installation guide * 1
3. Mother board manual * 1
4. Mother board driver CD * 1
5. SATA cable * 2
6. SATA power Y-cable * 1
7. ATA cable * 1
8. Power cable * 1
9. Screw set * 1
10. WSS license label * 1 (Storage Server Only)
11. WSS recovery DVD * 1 (Storage Server Only)

Chapter 2 System Overview

Front view and rear view

Power socket
Voltage switch
Power switch
Keyboard port
Mouse port
Serial port
Parallel port
VGA port
USB port
LAN port

LCD module
Power switch
Power LED
Hard disk LED
USB port

GIGABYTE

Chapter 3 System Specification

Hardware specification	
CPU Support	Intel P4 3.8GHz
FSB	800MHz
Memory Type	Un-Buffer DDR2 - 400 / 533
Memory ECC Support	Yes
Memory Slot	DIMM * 4
Memory Size Support	4GB
RAID Type	Firmware
RAID	0, 1
Disk Type	SATA
Disk Number	2 / 4 (option)
DVD-ROM	1 (Server Only)
FDD	1 (Server Only)
VGA	MCH internal Graphic
Ethernet Port	Gigabit * 1
LCD module	YES, Configuration and Monitor (Storage Server Only)
Available Slot (LP: Low Profile)	X8 PCI-E * 1 X1 PCI-E * 1 PCI 32bit/33MHz * 2
Dimension(W*H*D)	195*350*370 mm
Form Factor	Tower
Power Supply	300W

Software specification (Storage Server Only)	
Build-in Operating System	Microsoft Windows Storage Server 2003
Network Protocol Support	TCP/IP, AppleTalk, IPX
File Sharing Protocol Support	CIFS, NFS, NCP, AFP, HTTP

Note: When system enable Firmware RAID function, only two hard disks can be reached.
Storage Server does not support firmware RAID function.
The specification is subject to change without notice.

Chapter 4 Hardware Installation

4.1. Remove & Install Chassis Cover

Step 1.   Unlock the 3 screws from the back of the server.
Step 3.   Slide toward to remove the side cover.
Step 3.   Reverse Step 1, and 2 to replace the chassis cover.

4.2. Install Memory DIMM Module

Step 1. Insert the DIMM memory module vertically into the DIMM slot. Then push it down.

Step 2. Close the plastic clip at both edges of theDIMM slots to lock the DIMM module.

4.3. Install HDD and connect cable

Step 1.   Inset a hard disk into hard disk blank.
Step 2.   Secure the hard disk wit h two screws.
Step 3.   Reverse the server system, lock another screw.
Step 4.   Connect the power cable to the hard disk. (See the arrow illustrated below)
Step 5.   Connect the power cable to the motherboard connector. Installation completed.
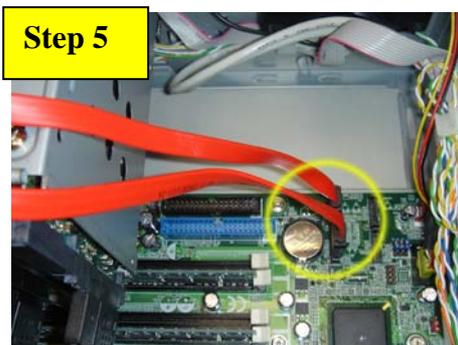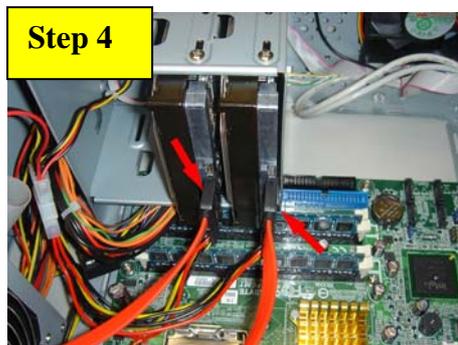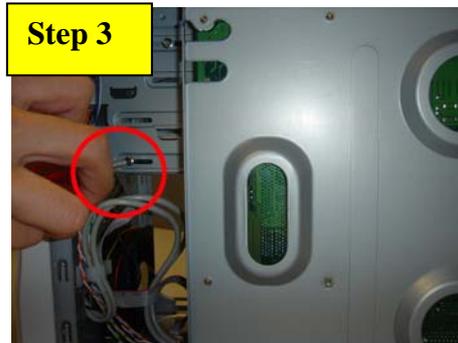
4.4. Install CPU and heat sink

Step 1. Gently lift the metal lever located on the CPU socket to the upper-right position.

Step 2. Remove the plastic covering on the CPU socket.

Step 3. Align the indented corner of the CPU with the triangle and gently insert the CPU into position. (Grasping the CPU firmly between your thumb and forefinger, carefully place it into the socket in a straight and downwards motion. Avoid twisting or bending motions that might cause damage to the CPU during installation.)

Step 4. Once the CPU is properly inserted, please replace the plastic covering and push the metal lever back into its original position.

Step 5. Apply heatsink paste on the surface of the installed CPU.

Step 6. Remove the heatsink, turning the push pin along the direction of arrow; and reverse the previous step to install the heat sink.
Please note the direction of arrow sign on the male push pin doesn't face inwards before installation. (This instruction is only for Intel boxed fan)

Step 7. Place the heatsink on top the CPU and make sure the push pins align to the pin hole on the motherboard. Push down the push pins diagonally.

Step 8. Make sure the Male and Female push pin are brought together.

Step 9. Check the back side of teh motherboard. Make sure the push pin is seated firmly as the picture shown. Installation completed.

Step 10. Attach the power connector of the heatsink to the CPU fan header located on the motherboard.

Step 3

Step 4

Step 5

Step 6

Male Push Pin

The top of Female Push Pin

Female Push pin

Step 7

Step 8

Step 9
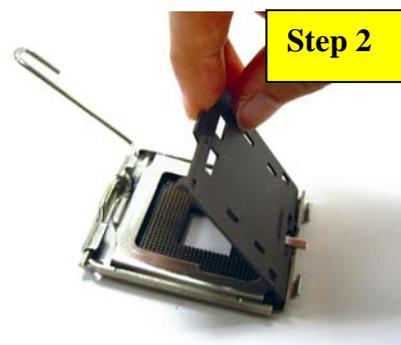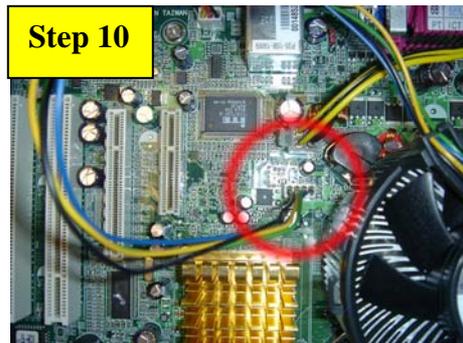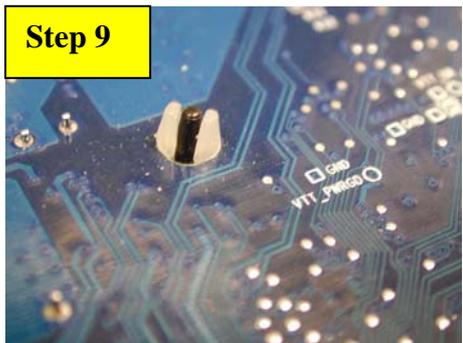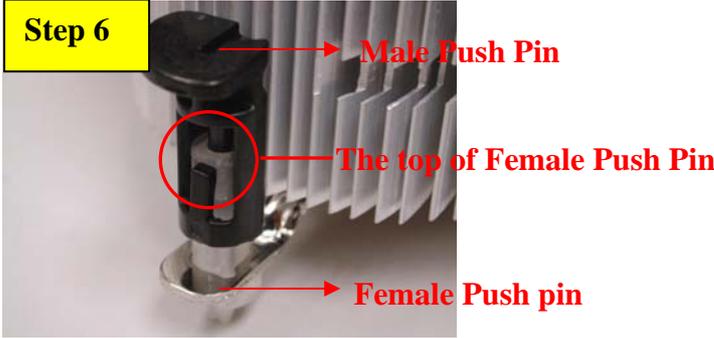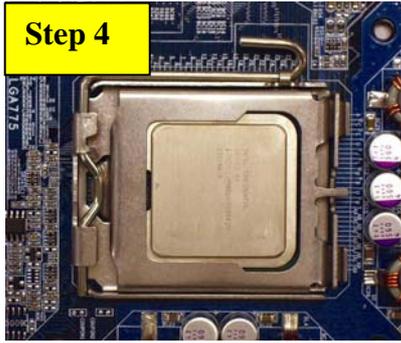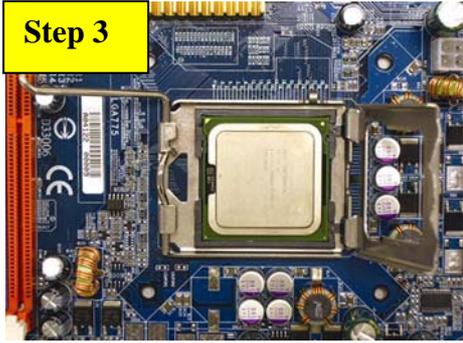
Step 10

4.5. Install DVD and connect cable

Step 1. Remove the front bezel.
Step 2. Push inward to remove the dummy cover.
Step 3. Slide the DVD-ROM drive into the bay until it locks into place.
Step 4. Secure the DVD-ROM drive with screws to the chassis.
Step 5. Connect the cable to the DVD-ROM drive.
Step 6. Connect the power to the DVD-ROM drive.
Step 7. Connect the cable to the motherboard connector.

Step 1

Step 2

Step 2

Push Inward

Step 2

Step 3

Step 4

Step 4

Step 5

Step 6

Step 7
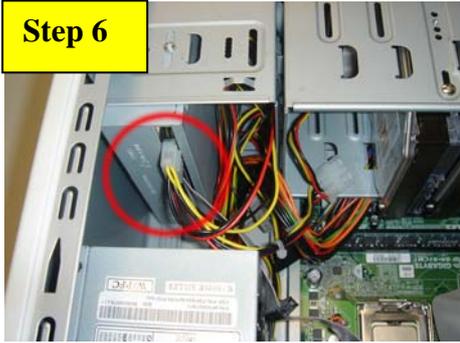
Chapter 5

Power On Preparing

Step 1 Switch the power supply input voltage to local voltage
Step 2 Connect all cables.

Chapter 6 Recover System (Storage Server Only)

Step 1. Boot from DVD

Step 2. Press Enter to start recovery.
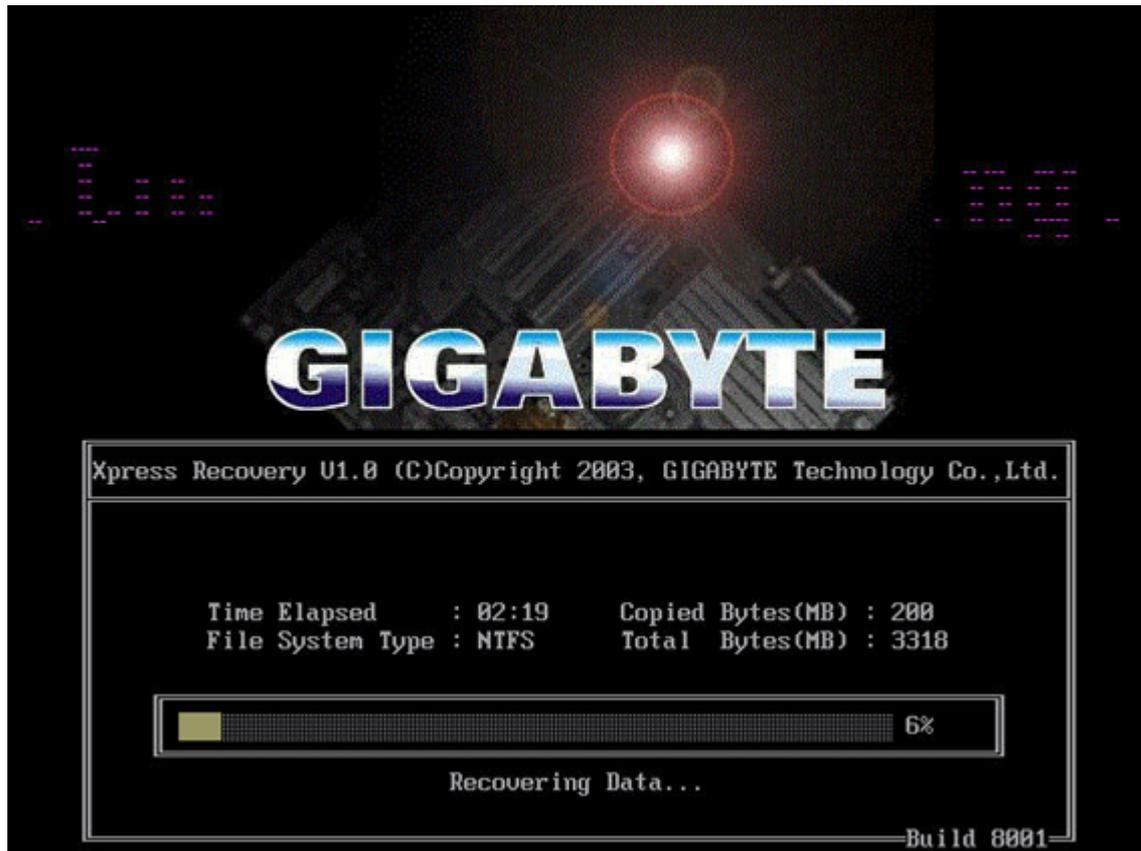
Step 3. Recovery completed!! Press any key to continue. Reboot your system.

Chapter 7 System Default Setting (Storage Server Only)

Hostname : STORAGESERVER
Management account : administrator
Management account password : password
IP address : Get from DHCP
LCD module password : 9999

Chapter 8 Enter Web UI (Storage Server Only)

Step 1 Open IE
Step 2 Input "User name" and " Password".
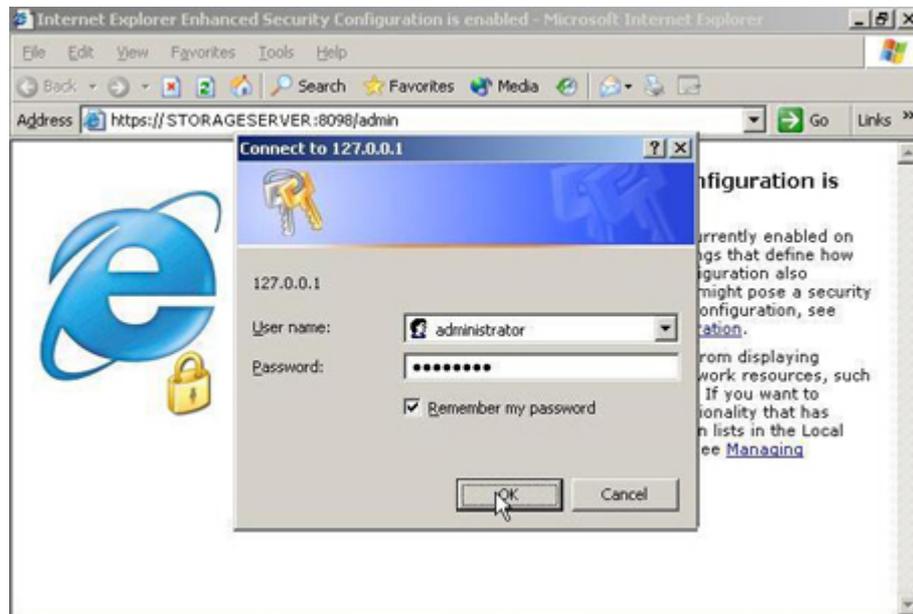
Step 3. Reach the Web UI.

Appendix I More Information (Storage Server Only)

Recovery DVD also contains
1. WSS 2003 Manual
2. E-office UI Manual
3. LCD module Manual
4. WSS End User License Agreement
5. i386 directory of Windows Server 2003
note: please check the DVD for the exact content

Appendix II Install 4-HDD Cage (Option)

Step 1. Lock the protrusion to connect the two HDD cages together. (See the arrow illustrated below)
Step 2. Secure the HDD cages with screw.
Step 3. Remove the front bezel and remove the screw next to the LCD panel.
Step 4. Remove the rest fixed screws. (See the red circle illustrated below)
Step 5. Pull out to remove the HDD blank.
Step 6. Align the protrusion on the DVD-ROM blank, lock the HDD cage into the protrusion. (See the red circle illustrated below)
Step 7. Secure the HDD cages with screws.
Step 8. Reverse step 3 to replace fixed screws to locked position.
Step 9. Connect the cable to the motherboard connector.

Step 1

Step 2

Step 3

Step 4

Step 4

Step 4

Step 5 Pull out

Protrusion **Step 6**

Step 6

Step 7

Step 8

Step 8