Asus 5U Tower Chassis Kit AK35 User Manual

Asus ak35 5u tower chassis kit user guide

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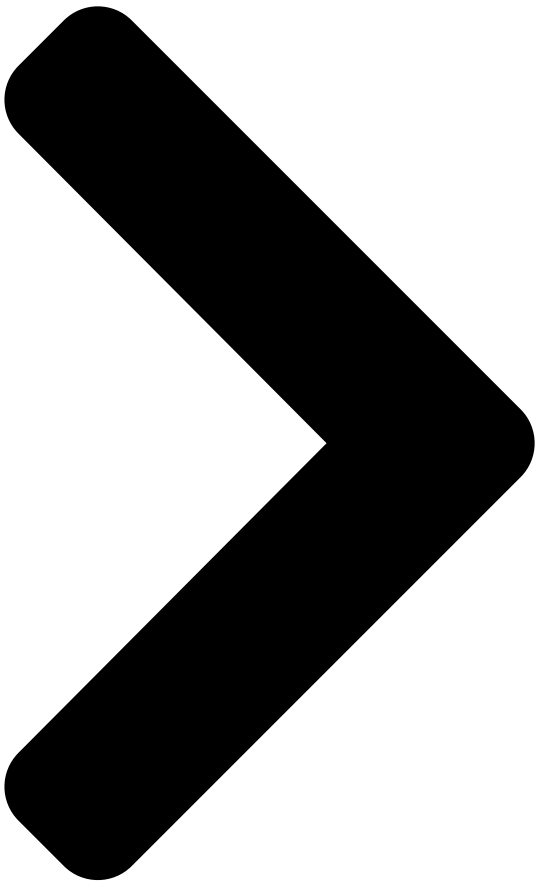

AK35

5U Tower Chassis Kit

User Guide

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Related Manuals for Asus 5U Tower Chassis Kit AK35

Enclosure Asus 5U Tower Chassis Kit AK34 User Manual

Asus ak34 5u tower chassis kit user guide (42 pages)

Enclosure Asus Gaming Machine Chassis Kit VENTO 3600 User Manual

Asus vento 3600 gaming machine chassis kit user guide (36 pages)

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Enclosure Asus Vintage2-AE1 Quick Installation Manual

Barebone system (56 pages)

Enclosure Asus TS-63 User Manual

Ts-6 series (2 pages)

Summary of Contents for Asus 5U Tower Chassis Kit AK35

Page 1 AK35 5U Tower Chassis Kit User Guide...

Page 2 ASUS has been advised of the possibility of such damages arising from any defect or error in this manual or product.

Page 3: Table Of Contents

About this guide ... vii ASUS Contact Information ... viii Chapter 1: Product introduction ... 1-1 1.1 Package contents ... 1-2 1.1.1 ASUS AK35 chassis kit ... 1-2 1.1.2 Standard items ... 1-2 1.1.3 Optional items ... 1-2 1.2 System overview ... 1-3 1.3 Front panel features ...

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Contents 2.6 Installing or removing an expansion card ... 2-16 2.6.1 Installing a standard size expansion card ... 2-16 2.6.2 Installing a long expansion card ... 2-18 2.6.3 Removing an expansion card ... 2-19 2.7 Removable components ... 2-20 2.7.1 HDD blower ...

Page 5: Notices

Notices Federal Communications Commission Statement This device complies with FCC Rules Part 15. Operation is subject to the following two conditions: • This device may not cause harmful interference, and • This device must accept any interference received including

interference that may cause undesired operation.

Page 6: Safety Information

Safety information Electrical Safety IMPORTANT • Before installing or removing signal cables, ensure that the power cables for the system unit and all attached devices are unplugged. • To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the system. •...

Page 7: About This Guide

About this guide Audience This user guide is intended for system integrators, and experienced users with at least basic knowledge of configuring a server. Contents This guide contains the following parts: 1. Chapter 1: System overview This chapter describes the general features of the AK35 barebone server.

Page 8: Asus Contact Information

ASUS COMPUTER INTERNATIONAL (America) Address: General Fax: General Email: Technical Support Support Fax: General Support: Web Site: Support Email: ASUS COMPUTER GmbH (Germany and Austria) Address: General Email: General Fax: Technical Support Support Hotline: Support (Email): Web Site: Support Fax:...

Page 9 Chapter 1 This chapter describes the general features of the AK35 chassis kit. It includes sections on front panel, rear panel, and internal features. ASUS AK35 chassis kit...

Page 10: Chapter 1: Product Introduction

• chassis intrusion cable • power cable 3. Component screws 4. ASUS AK35 Chassis Kit User Guide 1.1.3 Optional item • ASUS AK35 5U Rackmount Rail Kit If any of the above items is damaged or missing, contact your retailer.

Page 11 A plastic long-card support is provided to stabilize and hold long expansion cards in place. The chassis supports an extended ATX form factor ASUS motherboards. See the motherboard dimension requirements on page 2-4. Refer to the succeeding sections for a brief description of the basic components that are pre-installed in the chassis.

Page 12: Front Panel Features

Front panel features The AK35 chassis kit displays a stylish front bezel with lock. The bezel covers the system components on the front panel and serves as security. Open the bezel to access the front panel components. The front panel is designed to allow convenient access to the hard disk drives and other external features.

Page 13: Rear Panel Features

Slot for motherboard rear panel I/O Expansion slots System with standard power supply module Standard power supply module ASUS AK35 chassis kit AC IN socket (110V/220V autoswitching) AC Power LED 12cm fan vent Chassis lock Chassis intrusion switch (underneath)

Page 14: Internal Features

Internal features The chassis kit includes the basic components as shown in the picture below. The power supply area differs depending on the power supply module that came with the server you purchased. System with standard power supply module 1. Power supply module 2.

Page 15: Led Information

HDD Access LED Blinking Message LED Blinking Redundant power module LED ASUS AK35 chassis kit Description Installed HDD is in good condition; supplied power is sufficient HDD fails HDD is rebuilding using the RAID card SCSI Access Fault-Tolerant Enclosure (SAFTE)

Page 16 Chapter 1: Product introduction...

Page 17 Chapter 2 This chapter describes the internal hardware components and provides the installation procedures for additional system components. ASUS AK35 chassis kit...

Page 18: Chapter 2: Hardware Setup

Preparation Before proceeding, prepare everything that you might need to facilitate installation. 2.1.1 Tools to use 1. Phillips head screw driver 2. Flat head screw driver 2.1.2 System components and devices to install The following items are the basics that you need to install into the chassis kit.

Page 19: Removing And Installing The Side Cover

2. Slide the cover toward the front until it snaps in place. 3. Tighten the thumb screws to secure the cover. ASUS AK35 chassis kit Hole on the side of the chassis Hook on the cover...

Page 20: Motherboard Installation

2.3.1 Motherboard dimensions This chassis kit supports an ASUS motherboard that measures 12x13 inches (30.5 x 33 cm) for SCSI models, or 12x12 inches (30.5 x 30.5 cm) for IDE models. Motherboards of smaller sizes will fit into the system chassis.

Page 21: Placement Direction And Screw Holes

The following figure shows the specific locations of the standoffs (indicated by black circles) inside the chassis. These standoffs should match with the holes on the motherboard as pointed out above. Metal plate Standoff ASUS AK35 chassis kit...

Page 22: Installing The Motherboard

2.3.3 Installing the motherboard 1. Remove the temporary metal shield on the rear panel (beside the chassis fan) that covers the rear I/O slot opening. 2. Install the rear I/O shield that came with the motherboard package. Orient the I/O shield such that the openings for the mouse and keyboard ports are aligned to the top of the chassis fan.

Page 23: Installing 5.25-Inch Drives

To remove the front panel assembly: 1. Use a flat-head screwdriver to detach the hooked tabs from the left side of the front panel. ASUS AK35 chassis kit Hooked tab...

Page 24: Installing A 5.25-Inch Drive

2. Pull and swing the left edge of the front panel outward. 3. Unhook the hinge-like tabs from the holes on the right side of the front panel to completely detach the front panel assembly from the chassis. 2.4.2 Installing a 5.25-inch drive To install a 5.25-inch drive: 1.

Page 25 (such as a CD/DVD- ROM drive) into the bay until it is in place. The drive is in place when the screw holes on the drive align with the holes on the side of the bay. ASUS AK35 chassis kit...

Page 26 5. Secure the drive to the bay using the screwless drive bay lock that you removed earlier. a. Match the two pegs on the lock to the holes on the drive bay. b. Turn the knob 45º clockwise until it clicks on the reference point near the “locked icon.”...

Page 27 Insert the four hinge-like tabs to the holes on the right edge of the chassis. b. Swing the front panel to the left and fit the four (4) hooked tabs to the left side of the chassis until the tabs snap in place. ASUS AK35 chassis kit Hinge-like tab 2-11...

Page 28: Installing Hard Disk Drives

Installing hard disk drives The six hard disk drive (HDD) bays on the front panel include externally removable trays for mounting either SCSI or IDE 3.5-inch hard disk drives. You can access the drive trays by simply opening the the front bezel. 1.

Page 29 7. Push the tray lever until it clicks in place. The drive tray is correctly placed when its front edge aligns with the bay edge. The edge of the tray protrudes about 0.5 cm until you push back the tray lever. ASUS AK35 chassis kit 2-13...

Page 30: Ide Hard Disk

2.5.2 IDE hard disk To install an IDE hard disk drive: 1. Place the hard disk tray on a flat clean surface. 2. Use a Phillips screwdriver to remove the screw that secures the middle bracket from

the drive tray. 3.

Page 31 (2) flat head screws. Do not overtighten the screws to avoid breaking the plastic tray rails. 8. To install the tray into the bay, follow steps 5, 6, and 7 in section 2.5.1. ASUS AK35 chassis kit SCSI-IDE HDD bridge board 2-15...

Page 32: Installing Or Removing An Expansion Card

Installing or removing an expansion card The chassis is designed with a screwless expansion slot frame on the rear panel. This design feature allows you to install or remove an expansion card in less steps. Make sure to unplug the power cord before installing or removing expansion cards.

Page 33 Refer to the card documentation for the card configuration details, and to the motherboard user guide in case you need to configure any jumpers after installing the expansion card. ASUS AK35 chassis kit LOCK 2-17...

Page 34: Installing A Long Expansion Card

2.6.2 Installing a long expansion card If you are installing a long expansion card, such as some types of RAID cards, use the plastic card support located near the front of the chassis (under the backplane board) to keep the expansion cards firmly seated on the slots.

Page 35: Removing An Expansion Card

The card lock flips up. Card lock lever 2. Pull out the card from the PCI slot. 3. Press the end of the card lock marked “LOCK” to return it in place. ASUS AK35 chassis kit Card lock 2-19...

Page 36: Removable Components

Removable components When installing or removing system devices, you may need to remove previously installed components. This section describes how to remove these components. 2.7.1 HDD blower To remove the HDD blower: 1. Disconnect the 3-pin HDD blower cable from the FAN 1 connector on the SCSI backplane.

Page 37: Chassis Fan

2. Use a flat screwdriver to push the pin locks on the four corners of the fan from the inside of the chassis. Chassis fan cable Pin lock (tail-end) 3. Pull out the pin locks from the rear panel. 4. Remove the chassis fan. Pin lock ASUS AK35 chassis kit 2-21...

Page 38: Roller Wheels

2.7.3 Roller wheels The chassis comes with four roller wheels for convenient transport. Each wheel has a brake lock to stabilize the chassis in place. To remove the chassis wheels: 1. Lay the chassis in its side. 2. Use a Phillips screwdriver to remove the screws that secure the wheels to the bottom of the chassis.

Page 39: Power Supply Modules

1. Remove the screw that secures the power module to the chassis. 2. Press down the rubber lever to release the power module. 3. Pull out the power module from the chassis. 500W Redundant Power Module ASUS AK35 chassis kit 2-23...

Page 40: Connecting The Cables

Connecting the cables 2.8.1 Motherboard connections The chassis includes power and signal cables that you need to connect to the motherboard, SCSI backplane, and to the devices that you will install. Most of the cables for the chassis kit are already connected upon shipment.

Page 41: Scsi Backplane Connections

Disk drive 3 SCSI ID = 3 Disk drive 4 SCSI ID = 4 Disk drive 5 SCSI ID = 5 Disk drive 6 ASUS AK35 chassis kit Fan connectors 68-pin SCSI connector (connect to the SCSI connector on the motherboard)

Page 42 The following picture shows the SCSI backplane installed in the system and the cables connected to it. Power plugs from the power supply To ensure power redundancy, it is recommended that you use power plugs from each of the redundant power supply modules.

2-26 Fan cables SCSI cable...

Page 43 This appendix lists the common problems that you may encounter while using the server. It lists the possible causes of the problems and offers solutions. You may refer to this part and try to solve simple problems before calling customer support. ASUS AK35 chassis kit...

Page 44: Appendix: Troubleshooting

Simple fixes Some problems that you may encounter are not due to defects on the system or the components. These problems only requires simple troubleshooting actions that you can perform by yourself. Problem The power LED on the server or on the monitor do not light up The keyboard does not work The mouse does not work...

Page 45 The system continuously beeps after it was turned on The message “Non-system disk or disk error” appears Network connection not available ASUS AK35 chassis kit Action 1. Check the memory modules and make sure you installed the DIMMs the system supports.

Page 46 Appendix: Troubleshooting...

This manual is also suitable for:

Ak35Ak35-sr5Ak35-ss4Ak35-ss3Ak35-ar5Ak35-ar4 ... Show all

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