



Asus 1U Rackmount Chassis Kit R10-A2P4 User Manual

Asus r10-a2p4 1u rackmount chassis kit user guide

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1U Rackmount Chassis Kit

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(11 pages)

Summary of Contents for Asus 1U Rackmount Chassis Kit R10-A2P4

[Page 1](#) R10-A2P4 1U Rackmount 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.

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Contents Notices ... iv Safety information ... v About this guide ... vi Chapter 1: Product introduction 1.1 System package contents ... 2 1.2 Front panel features ... 3 1.3 Rear panel features ... 3 1.4 Internal features ... 4 1.5 LED information ...

[Page 4: Notices](#)

Notices Federal Communications Commission Statement This device complies with Part 15 of the FCC Rules. 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 5: Safety Information](#)

Safety information Electrical Safety • 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 6: 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: Product Introduction This chapter describes the general features of the chassis kit. It includes sections on front panel and rear panel specifications.

[Page 7](#) Chapter 1 This chapter describes the general features of the chassis kit. It includes sections on front panel and rear panel specifications. ASUS R10-A2P4 1U rackmount chassis kit...

[Page 8: Chapter 1: Product Introduction](#)

System package contents Check your ASUS R10-A2P4 package for the following items. Contact your dealer immediately if any of the items is damaged or missing. ASUS R10-A2P4 1U rackmount chassis with: • 300W/400W/500W power supply • Optical drive • System/device/rear fans •...

[Page 9: Front Panel Features](#)

The ports for the PS/2 keyboard, PS/2 mouse, USB, VGA, and Gigabit LAN do not appear on the rear panel if motherboard is not present. ASUS R10-A2P4 1U rackmount chassis kit CD-ROM drive Power button...

[Page 10: Internal Features](#)

Internal features The chassis includes the basic components as shown. 1. PCI-X riser card bracket 2. Rear fans 3. Power supply 4. Device fan 5. System fans The chassis kit does not include a floppy disk drive. Connect an external floppy disk drive (USB interface) to any of the USB ports on the front or rear panel if you need to use a floppy disk.

[Page 11: Led Information](#)

1.5.2 Rear panel LEDs ACT/LINK LED Status Description No link Green Linked Blinking Linking
ASUS R10-A2P4 1U rackmount chassis kit Power LED Location LED LAN2 LED Message LED LAN1
LED Description System power ON No activity Read/write data into the HDD System is normal;...

[Page 12](#) Chapter 1: Product introduction...

[Page 13](#) Chapter 2 This chapter lists the hardware setup procedures that you have to perform when installing or removing system components. ASUS R10-A2P4 1U rackmount chassis kit...

[Page 14: 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 15: Removing And Installing The Chassis Cover](#)

3. Firmly hold the cover and slide it toward the rear panel for about half an inch until it is disengaged from the chassis. 4. Lift the cover from the chassis. ASUS R10-A2P4 1U rackmount chassis kit Thumbscrews 1/2 inch distance...

[Page 16: Installing The Cover](#)

2.2.2 Installing the cover 1. Position the cover on top of the chassis with the thumbscrews on the rear, and leaving a gap of about half an inch from the front panel. 2. Make sure that the side markings on the cover (two on each side) are aligned to the grooves on the chassis.

[Page 17: Motherboard Installation](#)

2.3.1 Motherboard dimensions This chassis kit supports an ASUS motherboard that measures 12 x 10.5 inches (30.48 x 26.67 cm). Motherboards of smaller sizes will fit into the chassis. Refer to the motherboard user guide for more information on the motherboard dimension and other system requirements.

[Page 18: Placement Direction And Screw Holes](#)

2.3.2 Placement direction and screw holes Align the holes on the motherboard (indicated by white circles in the picture below) to the corresponding standoffs on the motherboard metal plate inside the chassis. Place screws through the designated holes to secure the motherboard to the chassis.

[Page 19: Installing The Motherboard](#)

2. Clear the motherboard area by re-routing the pre-connected cables to facilitate the motherboard installation. 3. Firmly hold the motherboard as shown, and place the side with the CPU sockets near the system fans. ASUS R10-A2P4 1U rackmount chassis kit CPU sockets...

[Page 20](#) 4. Fit the rear panel connectors to the I/O shield openings on the chassis rear. 5. Match the motherboard holes with the chassis standoffs. 6. Secure the motherboard with screws. Refer to the motherboard user guide for the specific number of screws that you need to use.

[Page 21: Hard Disk Drives](#)

Use two screws on each side to secure the hard disk drive. 4. Place a SATA hard disk drive on the tray, then secure it with four screws. ASUS R10-A2P4 1U rackmount chassis kit...

[Page 22](#) 5. Carefully insert the drive tray and push it all the way to the depth of the bay until just a small fraction of the tray edge protrudes. When installed, the SATA connector on the drive

connects to the SATA interface on the backplane.

[Page 23: Expansion Slot](#)

4. Take note of the holes on the riser card bay. The two pegs on the riser card bracket should match these holes to ensure that the bracket is properly in place. ASUS R10-A2P4 1U rackmount chassis kit Peg on the riser card bracket 2-11...

[Page 24](#) 4. Install the riser card bracket with the card into the PCI-X slot on the motherboard. 5. Make sure that the golden connectors completely fit the slot and the bracket aligns with the rear panel. 6. Connect the cable(s) to the card, if applicable.

[Page 25: Removable Components](#)

2.6.2 Device fan To uninstall the device fan: 1. Disconnect the system fan cable from the connector on the motherboard. 2. Remove the four screws that secure the device fan. ASUS R10-A2P4 1U rackmount chassis kit Fan screw Fan screw 2-13...

[Page 26: Power Supply Module](#)

2.6.3 Power supply module To uninstall the power supply module: 1. Disconnect all the power cables connected to the motherboard and other system devices. 2. Use a Phillips (cross) screwdriver to remove the screw that secures the front end of the power supply. 3.

[Page 27: Optical Drive](#)

Remove the bracket to release the drive. 3. Slide the optical drive toward the front panel, then carefully pull it out of the drive bay. ASUS R10-A2P4 1U rackmount chassis kit 2-15...

[Page 28](#) To install an optical drive: 1. From the front panel, insert the rear end of the optical drive into the 5.25-inch drive bay. 2. Place the metal bracket parallel to the side of the optical drive, matching its two pegs with the lower holes, and the bracket holes with the standoffs on the base of the chassis.

[Page 29: Motherboard](#)

3. Use a Phillips (cross) screwdriver to remove the screws that secure the motherboard to the base of the chassis. Refer to the section "2.3.2 Placement direction and screw holes" for information. 4. Carefully lift the motherboard out of the chassis. ASUS R10-A2P4 1U rackmount chassis kit 2-17...

[Page 30: Sata Backplane Cabling](#)

SATA backplane cabling Connects the SMBus cable from the MB Connect the SATA cables from the MB Ensure that the FAN1 connector on the SATA backplane and the CPU_FAN2 on the motherboard are connected via the 3-pin fan cable. The fan RPM (rotations per minute) are monitored and automatically adjusted through this feature.

[Page 31](#) Chapter 3 This chapter tells how to install the system to a rack. ASUS R10-A2P4 1U rackmount chassis kit...

[Page 32: Chapter 3: Rackmounting](#)

Rackmount rail kit items If you have the rackmount rail kit, it contains two pairs of rails (one pair for each side of the barebone system), and eight (8) pairs of nut-and-bolt type screws. Nuts Bolts Rack rails assembly To assemble the rack rails: 1.

[Page 33: Attaching The Rails To The Rack](#)

8. From the rack front, find the corresponding 1U space for the second rail pair. 9. Repeat steps 2 to 7 to attach the second rail pair. When properly installed, the rack rails appear as shown. ASUS R10-A2P4 1U rackmount chassis kit 1U space...

[Page 34: Rackmounting The Server](#)

Rackmounting the server To mount the server to the rack: 1. Firmly hold the server on both sides and insert the rear panel side to the front end of the rack rail, then carefully push the server all the way to the back until the front panel fits the front end of the rack, and the rack

screws on the server match the middle hole on the rack..

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