Asus TS700-E6 RS8 User Manual

Pedestal/5u rackmount server

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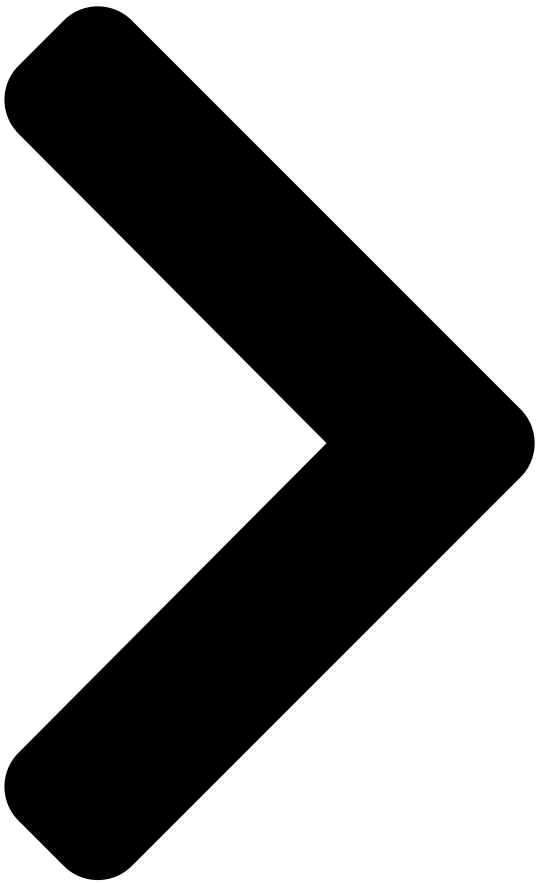

TS700-E6/RS8

Pedestal/5U Rackmount Server

User Guide

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(26 pages)

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Pedestal server (140 pages)

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Summary of Contents for Asus TS700-E6 RS8

Page 1: User Guide

TS700-E6/RS8 Pedestal/5U Rackmount Server User Guide...

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ASUSTeK COMPUTER INC. (“ASUS”). ASUS provides this manual “as is” without warranty of any kind, either express or implied, including but not limited to the implied warranties or conditions of merchantability or fitness for a particular purpose. In no...

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Page 7: Notices

Canadian Department of Communications. This Class B digital apparatus complies with Canadian ICES-003. REACH Complying with the REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals) regulatory framework, we publish the chemical substances in our products at ASUS REACH website at http://green.asus.com/english/REACH.htm.

Page 8: 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 9: About This Guide

DO NOT throw the motherboard in municipal waste. This product has been designed to enable proper reuse of parts and recycling. This symbol of the crossed out wheeled bin indicates that the product (electrical and electronic equipment) should not be placed in municipal waste. Check local regulations for disposal of electronic products.

Page 10

Refer to the following sources for additional information, and for product and software updates. ASUS Server Web-based Management (ASWM) user guide This manual tells how to set up and use the proprietary ASUS server management utility. ASUS websites The ASUS websites worldwide provide updated information for all ASUS...

Page 11

Chapter 1 This chapter describes the general features of the server, including sections on front panel and rear panel specifications. ASUS TS700-E6/RS8...

Page 12: Chapter 1: Product Introduction

If any of the above items is damaged or missing, contact your retailer. Serial number label Before requesting support from the ASUS Technical Support team, you must take note of the product’s serial number containing 12 characters such as xxxxxxxxxxxx.

Page 13: System Specifications

1.3 System specifications The ASUS TS700-E6/RS8 is a 5U barebone server system featuring the ASUS Z8PE-D12X server board. The server supports Intel ® LGA1366 Xeon ® 5500 series processors, plus other latest technologies through the chipsets onboard. Model Name TS700-E6/RS8 2 x Socket LGA1366...

Page 14

Out of Band Management Remote Optional ASMB4-iKVM for KVM-over-IP support Solution Management Software ASUS ASWM 2.0 ® Dimension (HH x WW x DD) 445mm x 217.5mm x 545mm Net Weight Kg (CPU, DRAM & 17.5 Kg HDD not included) Power Supply 620W 1+1 Redundant Power Supply Operation temperature: 10°C–35°C / Non operation...

Page 15: Front Panel Features

HDD access LED Power LED Optical drive Empty 5.25-inch Security lock bays Power button Reset button 4-bay HDD cage Headphone 4-bay HDD cage output jack* Microphone jack USB 2.0 ports *The audio jacks function only with an optional MIO audio card. Refer to section 1.7.1 Front panel LEDs for the LED descriptions. ASUS TS700-E6/RS8...

Page 16: Rear Panel Features

Rear panel features The rear panel includes a slot for the motherboard rear I/O ports, expansion slots, a chassis lock and intrusion switch, a vent for the system fan, and power supply module. Power connector 620W Redundant power supply PS/2 mouse port Chassis lock PS/2 keyboard port USB 2.0 ports...

Page 17: Internal Features

Internal features The barebone server includes the basic components as shown. 620W Redundant Power Supply (the second set is an optional item) 120mm x 38mm system fan (ARX FD1212-DP284G) ASUS Z8PE-D12X Server Board Chassis intrusion switch Expansion card locks Optical drive 2 x 5.25-inch drive bays...

Page 18: Led Information

LED information 1.7.1 Front panel LEDs Message LED LAN1 LED HDD Access LED LAN2 LED Power LED Drive Status LED Icon Display status Description Power LED System power ON No activity HDD Access LED Blinking Read/write data into the HDD System is normal;...

Page 19: Rear Panel Leds

1.7.2 Rear panel LEDs ACT/LINK LED SPEED LED ACT/LINK LED SPEED LED ACT/LINK LED SPEED LED Status Description Status Description No link 10 Mbps connection GREEN Linked ORANGE 100 Mbps connection BLINKING Data activity GREEN 1 Gbps connection ASUS TS700-E6/RS8...

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1-10 Chapter 1: Product introduction...

Page 21

Chapter 2 This chapter lists the hardware setup procedures that you have to perform when installing or removing system components. ASUS TS700-E6/RS8...

Page 22: Chapter 2: Hardware Setup

Chassis cover 2.1.1 Removing the side cover • Ensure that you unplug the power cord before removing the side cover. • Take extra care when removing the side cover. Keep your fingers from components inside the chassis that can cause injury, such as the CPU fan, rear fan, and other sharp-edged parts.

Page 23: Reinstalling The Side Cover

Position the side cover to the chassis. Slide the side cover toward the front panel until it snaps in place. Drive in the two screws you removed earlier to secure the side cover. ASUS TS700-E6/RS8...

Page 24: Central Processing Unit (Cpu)

ASUS shoulders the repair cost only if the damage is shipment/transit-related. • Keep the cap after installing the motherboard. ASUS will process Return Merchandise Authorization (RMA) requests only if the motherboard comes with the cap on the Socket 1366.

Page 25

Lift the load lever in the direction of the arrow to a 135º angle. Load plate Lift the load plate with your thumb and forefinger to a 100º angle. Remove the PnP cap from the CPU socket. PnP cap ASUS TS700-E6/RS8...

Page 26

Position the CPU over the socket, ensuring that the gold triangle is on the bottom-left corner of the socket, and then fit the socket alignment key into the CPU notch. Gold triangle The CPU fits in only one correct mark orientation.

Page 27: Installing The Cpu Heatsink And Fan

Connect the CPU heatsink and fan cable to the connector on the motherboard. Do not forget to connect the CPU heatsink and fan connector! Hardware monitoring errors can occur if you fail to

plug this connector. ASUS TS700-E6/RS8...

Page 28: System Memory

System memory 2.3.1 Overview The motherboard comes with twelve (12) Double Data Rate 3 (DDR3) Dual Inline Memory Modules (DIMM) sockets. The figure illustrates the location of the DDR3 DIMM sockets: Chapter 2: Hardware setup...

Page 29: Memory Configurations

Always install DIMMs with the same CAS latency. For optimum compatibility, we recommend that you obtain memory modules from the same vendor. Refer to the Qualified Vendors List on the ASUS web site. • You may install varying memory sizes in Channel A, Channel B and Channel C.

Page 30: Installing A Dimm

2.3.3 Installing a DIMM Ensure to unplug the power supply before adding or removing DIMMs or other system components. Failure to do so may cause severe damage to both the motherboard and the components. Unlock a DIMM socket by pressing DIMM notch the retaining clips outward.

Page 31: Front Panel Assembly

Shift the hooked tabs and take off the front bezel. 2.4.2 Reinstalling the front panel assembly To reinstall the front panel assembly: Hook the other side of the front panel assembly to the chassis. Swing the front panel assembly and snap it back into place. ASUS TS700-E6/RS8 2-11...

Page 32: Inch Drives

5.25-inch drives Ensure to unplug the power cable before installing or removing any system components. Failure to do so may cause damage to the motherboard and other system components! The system comes with three 5.25-inch drive bays located on the upper front part of the chassis.

Page 33: Sata/Sas Hard Disk Drives

Insert the HDD module cage into the bay. When the HDD module cage is completed inserted, the cage latch will be pushed back clockwise. Lock the cage latch properly. Connect the appropriate cables to the SATA/SAS backplane on the HDD module cage. ASUS TS700-E6/RS8 2-13...

Page 34: Removing The Hdd Module Cage

2.6.2 Removing the HDD module cage Disconnect the all cables from the SATA/SAS backplane on the HDD module cage. Level the HDD module cage latch counterclockwise. The HDD module cage will be pushed out of the chassis. Completely pull out the HDD module cage.

Page 35

When installed, the SATAII/SAS connector on the drive connects to the SATAII/ SAS interface on the backplane. ASUS TS700-E6/RS8 2-15...

Page 36: Removing And Reinstalling The Backplane

Push the tray lever until it clicks, and secures the drive tray in place. The drive tray is correctly placed when its front edge aligns with the bay edge. Repeat steps 1 to 6 if you wish to install a second SATAII/SAS drive. 2.6.4 Removing and reinstalling the backplane DO NOT remove the backplane unless necessary!

Page 37: Expansion Cards

Remove the metal slot cover opposite the slot where you wish to install an expansion card. Align the card golden fingers with the slot, and then press firmly until the card is completely seated on the slot. ASUS TS700-E6/RS8 2-17...

Page 38: Installing Asus Pike Raid Card

PCI-E slot right beside it does not function. 2.7.2 Installing ASUS PIKE RAID card Follow the steps below to install an optional ASUS RAID card on your motherboard. Locate the PIKE RAID card slot on the motherboard. Align the golden fingers of the RAID card with the PIKE RAID card slot.

Page 39: Installing I Button

Follow the steps below to install an optional i Button on your motherboard. Locate the i Button slot on the motherboard. Snap the i Button in place. You need to install i Button before using PIKE 1078 functions. ASUS TS700-E6/RS8 2-19...

Page 40: Installing Asmb4 Management Board

2.7.4 Installing ASMB4 management board Follow the steps below to install an optional ASMB4 management board on your motherboard. Locate the BMC_FW header on the motherboard. Orient and press the ASMB4 management card in place. Insert the LAN cable plug to the LAN port 3 (dedicated LAN) or LAN port 1 (shared LAN) for server management.

Page 41: Configuring An Expansion Card

ACPI Mode when used IRQ Holder for PCI Steering IRQ Holder for PCI Steering PS/2 Compatible Mouse Port Numeric Data Processor Primary IDE Channel Secondary IDE Channel * These IRQs are usually available for ISA or PCI devices. ASUS TS700-E6/RS8 2-21...

Page 42: Cable Connections

SAS: from motherboard SGPIO2 to SATA/SAS backplane J7 connector SAS: from motherboard SGPIO3 to SATA/SAS backplane J6 connector) System panel connector (from motherboard to front I/O board) SAS connectors (for ASUS PIKE only; from motherboard to SATA/SAS backplane) 2-22 Chapter 2: Hardware setup...

Page 43: Sata/Sas Backplane Connections

Refer to the table for reference. HDD Device Front side connector Back side connector HDD 1 HDD1 CON1 HDD 2 HDD2 CON2 HDD 3 HDD3 CON3 HDD 4 HDD4 CON4 ASUS TS700-E6/RS8 2-23...

Page 44: Back Side

Back side The back side of the SATA/SAS backplane faces the rear panel when installed. This side includes the power connectors and SATA/SAS interfaces for the motherboard Serial ATA connectors or the SAS card. CON1 CON2 SGPIO_SEL1 SGPIO2 CON4 CON3 SGPIO1 BPSMB1 Connectors...

Page 45: Removable Components

5.25-inch drive bays. Squeeze the front system fan latches (step a) and pull out the front system fan (step b), as shown in the right figure. Follow the previous instructions in reverse to reinstall the front system fan. ASUS TS700-E6/RS8 2-25...

Page 46

Removing the rear system fan To remove the rear system fan Unplug the system fan cable from the REAR_FAN1 connector on the motherboard. Shift the two hooked tabs leftward and rightward respectively. Carefully take off the system fan. Follow the previous instructions in reverse to reinstall the rear system fan.

Page 47: Chassis Footpads

“Rackmount Kit” user guide for instructions) To remove the footpads Lay the system chassis on its side. Remove the footpad by rotating it counterclockwise with a Philips (cross) screwdriver. Repeat step 1 and 2 to remove the other three footpads. ASUS TS700-E6/RS8 2-27...

Page 48: Redundant Power Supply Module

2.9.3 Redundant power supply module The system is compatible with the 620W redundant power supply. Purchase based on your needs. You MUST disconnect all power cable plugs from the motherboard and other installed devices before removing the power supply unit. To install a second redundant power supply module: Remove the redundant power supply dummy cover.

Page 49

Chapter 3 This chapter describes how to install the optional components and devices into the barebone server. ASUS TS700-E6/RS8...

Page 50: Chapter 3: Installation Options

Preparing the system for rack mounting • The items required for the optional configurations described in this chapter are not included in the standard barebone system package. These

items are purchased separately. • We recommend that you allot at least 1U space above the server system to ensure optimal thermal performance.

Page 51: Attaching The Rails To The Rack

Drive in two screws on the outer holes to secure the rear end. From the rack front, find the corresponding 1U space for the second rail pair. Repeat steps 3–6 to attach the second rail pair. ASUS TS700-E6/RS8...

Page 52: Mounting The Server To The Rack

Mounting the server to the rack To mount the server to the rack: Align the server rails with the rack rails. Push the server all the way into the rack. Chapter 3: Installation options...

Page 53: Motherboard Layout

Chapter 4 This chapter includes the motherboard layout and brief descriptions of the jumpers and internal connectors. ASUS TS700-E6/RS8...

Page 54: Chapter 4: Motherboard Info

Motherboard layout Chapter 4: Motherboard information...

Page 55: Internal Connectors

Serial port connector (10-1 pin COM2) 4-15 BMC header (BMC_FW1) 4-15 Power Supply SMBus connector (5-pin PSUSMB1) 4-16 SSI power connectors 4-16 (24-pin SSIPWR1, 8-pin SSI12V1, 8-pin SSI12V2) System panel connector (20-1 pin PANEL1) 4-17 Auxiliary panel connector (20-2 pin AUX_PANEL1) 4-18 ASUS TS700-E6/RS8...

Page 56: Jumpers

Jumpers Clear RTC RAM (CLRTC1) This jumper allows you to clear the Real Time Clock (RTC) RAM in CMOS. You can clear the CMOS memory of date, time, and system setup parameters by erasing the CMOS RTC RAM data. The onboard button cell battery powers the RAM data in CMOS, which include system setup information such as system passwords.

Page 57

If you use a 4-pin fan but set the jumper to pin 2-3, the fan you installed may not work. • If you use a 3-pin fan but set the jumper for a 4-pin fan, the fan control will not work and the fan you installed will always run at full speed. ASUS TS700-E6/RS8...

Page 58

LAN controller setting (3-pin LAN_SW1, LAN_SW2) These jumpers allow you to enable or disable the onboard Intel Intel ® 82574LGigabit LAN controllers. Set to pins 1-2 to activate the Gigabit LAN feature. IDE control setting (3-pin IDE_SW1) This jumper allows you to enable or disable the IDE connector. Set to pins 1– 2 to enable the IDE connector or pins 2–3 disable the IDE connector.

Page 59

Force 133MHz may cause the system unstable. DDR3 voltage control setting (4-pin LVDDR3_SEL1; LVDDR3_SEL2) These jumpers allow you to adjust the DIMM voltage. Set to pins 1–2 to select 1.5V BIOS control, pins 2–3 to select 1.2V Force or 3–4 to select 1.35V Force. ASUS TS700-E6/RS8...

Page 60

Force BIOS recovery setting (3-pin RECOVERY1) This jumper allows you to quickly update or recover the BIOS settings when it becomes corrupted. To update the BIOS: Prepare a USB flash disk that contains the original or latest BIOS for the motherboard (XXXXXX.ROM) and the AFUDOS.EXE utility.

Page 61: Internal Connectors

If you installed Serial ATA hard disk drives, you can create a RAID 0, RAID 1, RAID 10, or RAID 5 configuration. The actual data transfer rate depends on the speed of Serial ATA hard disks installed. ASUS TS700-E6/RS8...

Page 62

IDE connector (40-1 pin PRI_EIDE1) This connector is for an Ultra DMA 133/100/66 signal cable. The Ultra DMA 133/100/66 signal cable has three connectors: a blue connector for the primary IDE connector on the motherboard, a black connector for an Ultra DMA 133/100/66 IDE slave device (optical drive/hard disk drive), and a gray connector for an Ultra DMA

133/100/66 IDE master device (hard disk drive).

Page 63 This LED connector is for the storage add-on card cable connected to the SATA or SAS add-on card. The read or write activities of any device connected to the SATA or SAS add-on card causes the front panel LED to light up. ASUS TS700-E6/RS8 4-11...

Page 64 USB connector (10-1 pin USB34, USB56; A-Type USB7) These connectors are for USB 2.0 ports. Connect the USB module cables to connectors USB34 and USB56, then install the modules to a slot opening at the back of the system chassis. These USB connectors comply with USB 2.0 specification that supports up to 480 Mbps connection speed.

Page 65 These are not jumpers! DO NOT place jumper caps on the fan connectors! • All fans feature the ASUS Smart Fan technology. LPC debug card connector (14-1 pin LPC1) This is a low pin count interface used to plug in the LPC debug card.

Page 66 10. Serial General Purpose Input/Output connectors (8-1 pin SGPIO2/3) These connector is used for the SAS chip SGPIO interface that controls the LED pattern generation, device information and general purpose data. These connectors functions only when you install an ASUS PIKE SAS RAID card. 4-14...

Page 67 This connector is for a serial (COM) port. Connect the serial port module cable to this connector, then install the module to a slot opening at the back of the system chassis. 12. BMC header (BMC_FW1) The BMC connector on the motherboard supports an ASUS Server ® Management Board 4 Series (ASMB4).

Page 68 13. Power Supply SMBus connector (5-pin PSUSMB1) This connector allows you to connect SMBus (System Management Bus) to the power supply unit to read PSU information. Devices communicate with an SMBus host and/or other SMBus devices using the SMBus interface. 14.

Page 69 BIOS settings. Pressing the power switch for more than four seconds while the system is ON turns the system OFF. Reset button (2-pin RESET) This 2-pin connector is for the chassis-mounted reset button for system reboot without turning off the system power. ASUS TS700-E6/RS8 4-17...

Page 70 16. Auxiliary panel connector (20-pin AUX_PANEL1) This connector is for additional front panel features including front panel SMB, locator LED and switch, chassis intrusion, and LAN LEDs. Front panel SMB (6-1 pin FPSMB) These leads connect the front panel SMBus cable. LAN activity LED (2-pin LAN1_LED, LAN2_LED) These leads are for Gigabit LAN activity LEDs on the front panel.

Page 71 Chapter 5 This chapter tells how to change the system settings through the BIOS Setup menus. Detailed descriptions of the BIOS parameters are also provided. ASUS TS700-E6/RS8...

Page 72: Chapter 5: Bios Setup

AFUDOS utility (Updates the BIOS in DOS mode using a bootable USB flash drive.) ASUS CrashFree BIOS 3 (To recover the BIOS using a USB flash drive when the BIOS file fails or gets corrupted.) Refer to the corresponding sections for details on these utilities.

Page 73 Updating the BIOS file To update the BIOS file using the AFUDOS utility: Visit the ASUS website (www.asus.com) and download the latest BIOS file for the motherboard. Save the BIOS file to a bootable USB flash drive. Write the BIOS filename on a piece of paper. You need to type the exact BIOS filename at the DOS prompt.

Page 74: Asus Crashfree Bios 3 Utility

5.1.2 ASUS CrashFree BIOS 3 utility The ASUS CrashFree BIOS 3 utility is an auto recovery tool that allows you to restore the BIOS file when it fails or gets corrupted during the updating process. You can restore a corrupted BIOS file using a USB flash drive that contains the BIOS file.

Page 75: Bios Setup Program

The BIOS setup screens shown in this section are for reference purposes only, and may not exactly match what you see on your screen. • Visit the ASUS website at www.asus.com to download the latest BIOS file for this motherboard. ASUS TS700-E6/RS8...

Page 76: Bios Menu Screen

5.2.1 BIOS menu screen Menu items Menu bar Configuration fields General help BIOS SETUP UTILITY Main Advanced Server Boot Exit Use [ENTER], [TAB] System Time [13:44:30] or [SHIFT-TAB] to System Date [Wed, 12/17/2008] select a field. Legacy Diskette A [1.44M, 3.5 in.] Use [+] or [-] to SATA 1 [ST3160812AS]...

Page 77: Menu Items

<Page Up> /<Page Down> keys to display the other items on the Pop-up window screen. Scroll bar 5.2.9 General help At the top right corner of the menu screen is a brief description of the selected item. ASUS TS700-E6/RS8...

Page 78: Main Menu

Main menu When you enter the BIOS Setup program, the Main menu screen appears, giving you an overview of the basic system information. Refer to section 5.2.1 BIOS menu screen for information on the menu screen items and how to navigate through them. BIOS SETUP UTILITY Main Advanced...

Page 79: Sata1-6; Ide Primary Master/Slave Configuration

Allows you to select the data transfer mode. Configuration options: [Auto] [0] [1] [2] [3] [4] DMA Mode [Auto] Sets the DMA mode. Configuration options: [Auto] [SWDMA0] [SWDMA1] [SWDMA2] [MWDMA0] [MWDMA1] [MWDMA2] [UDMA0] [UDMA1] [UDMA2] [UDMA3] [UDMA4] [UDMA5] ASUS TS700-E6/RS8...

Page 80: Ide Configuration

SMART Monitoring [Auto] Sets the Smart Monitoring, Analysis, and Reporting Technology. Configuration options: [Auto] [Disabled] [Enabled] 32Bit Data Transfer [Enabled] Enables or disables 32-bit data transfer. Configuration options: [Disabled] [Enabled] 5.3.5 IDE Configuration The items in this menu allow you to set or change the configurations for the IDE devices installed in the system.

Page 81: Ahci Configuration

SATA Port0 [Auto] Allows you to select the type of device connected to the system. Configuration options: [Auto] [Not Installed] SMART Monitoring [Enabled] Allows you to set the Self-Monitoring, Analysis and Reporting Technology. Configuration options: [Disabled] [Enabled] ASUS TS700-E6/RS8 5-11...

Page 82: System Information

5.3.7 System Information This menu gives you an overview of the general system specifications. The BIOS automatically detects the items in this menu. BIOS SETUP UTILITY Main AMIBIOS Version :0303 Build Date :12/05/08 Processor Speed :2400MHZ Count System Memory Usable Size : 1016MB Select Screen ←→...

Page 83

CPU1/2 Memory Configuration Displays the auto-detected memory specification. BIOS SETUP UTILITY Main CPU1 Memory Configuration Speed DIMM_A1 DIMM_A2 DIMM_A3 DIMM_B1 DIMM_B2 DIMM_B3 DIMM_C1 DIMM_C2 DIMM_C3 ASUS TS700-E6/RS8 5-13...

Page 84: Advanced Menu

Advanced menu The Advanced menu items allow you to change the settings for the CPU and other system devices. Take caution when changing the settings of the Advanced menu items. Incorrect field values can cause the system to malfunction. BIOS SETUP UTILITY Main Advanced Server...

Page 85

Configuration options: [Disabled] [Enabled] CPU TM Function [Enabled] This function enables the overheated CPU to throttle the clock speed to cool down. Configuration options: [Disabled] [Enabled] ASUS TS700-E6/RS8 5-15...

Page 86 Execute-Disable Bit Capability [Enabled] Allows you to enable or disable the No-Execution Page Protection Technology. Setting this item to [Disabled] forces the XD feature flag to always return to zero (0). Configuration options: [Disabled] [Enabled] Intel(R) HT Technology [Disabled] Allows you to enable or disable the Intel Hyper-Threading Technology function. When disabled, only one thread per activated core is enabled.

Page 87 C1 based on the uncore auto-demote information. Configuration options: [Disabled] [Enabled] C3 Auto Demotion [Enabled] When this item is enabled, the CPU will conditionally demote C6/C7 requests to C3 based on the uncore auto-demote information. Configuration options: [Disabled] [Enabled] ASUS TS700-E6/RS8 5-17...

Page 88: Chipset Configuration

5.4.2 Chipset Configuration The Chipset configuration menu allows you to change advanced chipset settings. Select an item then press <Enter> to display the sub-menu. BIOS SETUP UTILITY Advanced Advanced Chipset Settings Configure CPU Bridge features. WARNING: Setting wrong values in below sections may cause system to malfunction.

Page 89 Configuration options: [Disabled] [Auto] Demand Scrubbing [Enabled] Enables or disables the ECC demand scrub. Configuration options: [Disabled] [Enabled] Patrol Scrubbing [Disabled] Enables or disables the ECC patrol scrub. Configuration options: [Disabled] [Enabled] NUMA Aware [Auto] Configuration options: [Disabled] [Enabled] ASUS TS700-E6/RS8 5-19...

Page 90 Page Poilcy [Closed] Configuration options: [Closed] [Open] Adaptive Page [Disabled] Configuration options: [Disabled] [Enabled] Data Scramble [Disabled] Configuration options: [Disabled] [Enabled] Split Below 4 GB [Disabled] Configuation options: [Disabled] [Auto] Channel Interleaving [6:1] Allows you to set the channel interleaving setting. Configuation options: [1:1] [2:1] [4:1] [6:1] Rank Interleaving [4:1] Allows you to set the rank interleaving setting.

Page 91 Allows you to enable or disable the High Definition Audio controller. Configuration options: [Enabled] [Disabled] SLP_S4# Min. Assertion Width [1 to 2 seconds] Configuration options: [4 to 5 seconds] [3 to 4 seconds] [2 to 3 seconds] [1 to 2 seconds] ASUS TS700-E6/RS8 5-21...

Page 92: Legacy Device Configuration

Intel VT-d Configuration BIOS SETUP UTILITY Advanced Options Inel VT-d [Disabled] Disabled Enabled Select Screen ←→ Select Item ↑↓ Change Option General Help Save and Exit Exit v02.61 (C)Copyright 1985-2008, American Megatrends, Inc. Configuration options: [Disabled] [Enabled] 5.4.3 Legacy Device Configuration BIOS SETUP UTILITY Advanced Legacy Device Configuration Allows BIOS to Enable...

Page 93: Usb Configuration

(12Mbps). Configuration options: [FullSpeed] [HiSpeed] BIOS EHCI Hand-Off [Enabled] Enables or disables the BIOS EHCI hand-off support. Configuration options: [Disabled] [Enabled] Hotplug USB FDD Support [Auto] Allows you to configure the Hotplug USB FDD support. Configuration options: [Disabled] [Enabled] [Auto] ASUS TS700-E6/RS8 5-23...

Page 94: Pcipnp

5.4.5 PCIPnP The PCIPnP menu items allow you to change the advanced settings for PCI/PnP devices. Take caution when changing the settings of the PCI/PnP Configuration menu items. Incorrect field values can cause the system to malfunction. BIOS SETUP UTILITY Advanced Advanced PCI/PnP Settings NO: lets the BIOS...

Page 95: Power On Configuration

To set the alarm date, highlight this item and press the <+> or <-> key to make the selection. System Time [12:30:30] Use the <ENTER>, <TAB> or <SHIFT-TAB> key to select a field. Use the <+> or <-> key to configure alarm time. ASUS TS700-E6/RS8 5-25...

Page 96: Event Log Configuration

5.4.7 Event Log Configuration BIOS SETUP UTILITY Main Advanced Event Logging details View all unread events on the Event Log. View Event Log Mark all event as read Clear Event Log View Event Log Press <Enter> to read all the unread event log. Mark all events as read Press

<Enter>...

Page 97 [N/A]. Smart Fan Control [Generic Mode] Allows you to configure the ASUS Smart Fan feature that smartly adjusts the fan speeds for more efficient system operation. Configuration options: [Full Speed Mode] [Whisper Mode] [Generic Mode] [High Density Mode] VCORE1/2 Voltage, +1.5V_P1/2DDR3 Voltage, +1.5V_ICH Voltage,...

Page 98: Pci Express Configuration

5.4.9 PCI Express Configuration BIOS SETUP UTILITY Advanced PCI Express Configuration Enable/Disable PCI Express L0s and L1 link power Active State Power-Management [Disabled] states. Select Screen ←→ Select Item ↑↓ Change Option General Help Save and Exit Exit v02.61 (C)Copyright 1985-2008, American Megatrends, Inc. Active State Power-Management [Disabled] Enables or disables the PCI Express L0s and L1 link power states.

Page 99 BIOS-->AML ACPI table [Enabled] Allows you to include the BIOS-->AML exchange table pointer to (X)RSDT pointer list.Configuration options: [Disabled] [Enabled] Headless mode [Disabled] Allows you to enable or disable the Headless operation mode through ACPI. Configuration options: [Disabled] [Enabled] ASUS TS700-E6/RS8 5-29...

Page 100 Chipset ACPI Configuration BIOS SETUP UTILITY Advanced South Bridge ACPI Configuration Options Energy Lake Feature [Disabled] Enabled APIC ACPI SCI IRQ [Disabled] Disabled USB Device Wakeup From S3/S4 [Disabled] High Performance Event Timer [Disabled] HPET Memory Address [FED00000h] Energy Lake Feature [Disabled] Allows you to enable or disable the Energy Lake feature.

Page 101: Server Menu

General Help Save and Exit Exit v02.61 (C)Copyright 1985-2008, American Megatrends, Inc. Remote Access [Enabled] Enables or disables the remote access feature. Configuration options: [Disabled] [Enabled] The following items appear only when Remote Access is set to [Enabled]. ASUS TS700-E6/RS8 5-31...

Page 102 Serial port number [COM2] Selects the serial port for console redirection. Configuration options: [COM1] [COM2] Base Address. IRQ [2F8h, 3] This item is not user-configurable and changes with the configuration of Serial port number. Serial Port Mode [57600 8,n,1] Sets the Serial port mode. Configuration options: [115200 8,n,1] [57600 8,n,1] [38400 8,n,1] [19200 8,n,1] [09600 8,n,1] Flow Control [Hardware]...

Page 103: Boot Menu

These items specify the boot device priority sequence from the available devices. The number of device items that appears on the screen depends on the number of devices installed in the system. Configuration options: [xxxxx Drive] [Disabled] ASUS TS700-E6/RS8 5-33...

Page 104: Removable Drives

BIOS performs all the POST items. Configuration options: [Disabled] [Enabled] Full Screen Logo [Disabled] Allows you to enable or disable the full screen logo display feature. Configuration options: [Disabled] [Enabled] Set this item to [Enabled] to use the ASUS MyLogo2™ feature. 5-34 Chapter 5: BIOS setup...

Page 105 When set to [Enabled], the system displays the message “Press DEL to run Setup” during POST. Configuration options: [Disabled] [Enabled] Interrupt 19 Capture [Enabled] When set to [Enabled], this function allows the option ROMs to trap Interrupt 19. Configuration options: [Disabled] [Enabled] ASUS TS700-E6/RS8 5-35...

Page 106: Security

5.6.4 Security The Security menu items allow you to change the system security settings. Select an item then press <Enter> to display the configuration options. BIOS SETUP UTILITY Boot Security Settings <Enter> to change password. <Enter> again to Supervisor Password : Not Installed disable password.

Page 107: Change User Password

Password Check [Setup] When set to [Setup], BIOS checks for user password when accessing the Setup utility. When set to [Always], BIOS checks for user password both when accessing

Setup and booting the system. Configuration options: [Setup] [Always] ASUS TS700-E6/RS8 5-37...

Page 108: Exit Menu

Exit menu The Exit menu items allow you to load the optimal or failsafe default values for the BIOS items, and save or discard your changes to the BIOS items. BIOS SETUP UTILITY Main Advanced Server Boot Exit Exit Options Exit system setup after saving the Exit &...

Page 109 Chapter 6 This chapter provides instructions for setting up, creating and configuring RAID sets using the available utilities. ASUS TS700-E6/RS8...

Page 110: Chapter 6: Raid Configuration

Setting up RAID The motherboard comes with the Intel ICH10R southbridge controller that ® supports the following SATA RAID solutions: LSI MegaRAID software RAID Configuration Utility (default) with RAID 0, • RAID 1, and RAID 10 support (for both Linux and Windows OS). Intel Matrix Storage Manager with RAID 0, RAID 1, RAID 10, and RAID 5 •...

Page 111: Raid Controller Selection

Go to the Main menu > IDE Configuration, and then press <Enter>. Set the Configure SATA as item to [RAID]. Save your changes, and then exit the BIOS Setup. Refer to Chapter 5 for details on entering and navigating through the BIOS Setup. ASUS TS700-E6/RS8...

Page 112: L Si Software Raid Configuration Utility

6.2 L SI Software RAID Configuration Utility The LSI MegaRAID software RAID configuration utility allows you to create RAID 0, RAID 1, or RAID 10 set(s) from SATA hard disk drives connected to the SATA connectors supported by the motherboard southbridge chip. To enter the LSI MegaRAID software RAID configuration utility Turn on the system after installing all the SATA hard disk drives.

Page 113: Creating A Raid Set

Management Menu Configure View/Add Configuration Initialize Clear Configuration Select Boot Drive Objects Rebuild Check Consistency Defines Physical Arrays. An Array Will Automatically Become A VD Use Cursor Keys to Navigate Between Items And Press Enter To Select An Option ASUS TS700-E6/RS8...

Page 114 The ARRAY SELECTION MENU displays the available drives connected to the SATA ports. Use the up/down arrow key to select the drives you want to include in the RAID set, and then press <Space>. When selected, the drive indicator changes from READY to ONLIN A[X]-[Y], where X is the array number, and Y is the drive number.

Page 115 Check Consistency Virtual Drive 0 RAID Level RAID = 1 RAID 0 Size = 77247MB RAID 1 DWC = Off = On Accept SPAN = NO Choose RAID Level For This VD Cursor Keys, SPACE-(De)Select F2-ChIdInfo F3-SlotInfo F10-Configure Esc-Quit ASUS TS700-E6/RS8...

Page 116 When creating a RAID 1 or a RAID 10 set, select DWC from the Virtual Drive menu, and then press <Enter>. When creating a RAID 0 set, proceed to step 10. Select On to enable the Disk Write Cache setting, and then press <Enter>. LSI Software RAID Configuration Utility Ver A.60 Jul 30, 2008 BIOS Version A.08.09161344R...

Page 117 New Configuration Management Menu View/Add Configuration Configure Clear Configuration Initialize Select Boot Drive Objects Rebuild Check Consistency Clear Existing Configuration And Start A New Configuration Use Cursor Keys to Navigate Between Items And Press Enter To Select An Option ASUS TS700-E6/RS8...

Page 118 Follow step 2 to 7 of the previous section: Using Easy Configuration. Select Size from the Virtual Drive menu, and then press <Enter>. Key-in the desired virtual drive size, and then press <Enter>. LSI Software RAID Configuration Utility Ver A.60 Jul 30, 2008 BIOS Version A.08.09161344R Virtual Drive(s) Configured...

Page 119: Adding Or Viewing A Raid Configuration

SPACE-Sel,ENTER-EndArray,F10-Configure,F2-Drive Info,F3-Virtual Drives,F4-HSP The information of the selected hard disk drive displays at the bottom of the screen. Follow step 3 to

12 of section 6.2.1 Creating a RAID set: Using Easy Configuration to add a new RAID set. ASUS TS700-E6/RS8 6-11...

Page 120: Initializing The Virtual Drives

6.2.3 Initializing the virtual drives After creating the RAID set(s), you must initialize the virtual drives. You may initialize the virtual drives of a RAID set(s) using the Initialize or Objects command on the Management Menu. Using the Initialize command To initialize the virtual drive using the Initialize command From the Management Menu, select Initialize, and then press <Enter>.

Page 121 RAID Size #Stripes StripSz Status Configure 154494MB 64 KB ONLINE Init Of VD Is In Process Initialize Objects VD 0 Initialization Complete. Press Esc.. Rebuild Check Consistency ¦ 100% Completed Virtual Drives Virtual Drive 0 SPACE-(De)Select, F10-Initialize ASUS TS700-E6/RS8 6-13...

Page 122 Using the Objects command To initialize the virtual drives using the Objects command From the Management Menu, select Objects > Virtual Drive, and then press <Enter>. LSI Software RAID Configuration Utility Ver A.60 Jul 30, 2008 BIOS Version A.08.09161344R Objects Management Menu Adapter Configure Virtual Drive Initialize Physical Drive Objects...

Page 123 Initilize Will Destroy Data On Selected VD(s) Use Cursor Keys To Navigate Between Items And Press Enter To Select An Option A progress bar appears on screen. If desired, press <Esc> to abort initialization. When initialization is completed, press <Esc>. ASUS TS700-E6/RS8 6-15...

Page 124: Rebuilding Failed Drives

6.2.4 Rebuilding failed drives You can manually rebuild failed hard disk drives using the Rebuild command in the Management Menu. To rebuild a failed hard disk drive From the Management Menu, select Rebuild, and then press <Enter>. LSI Software RAID Configuration Utility Ver A.60 Jul 30, 2008 BIOS Version A.08.09161344R Management Menu...

Page 125 RBLD A00-01 Rebuild Check Consistency Rebuilding Of Drive Will Take A Few Minutes. Start Rebuilding Drive (Y/N)? Port # 1 DISK 77247MB HDS728080PLA380 PF20A60A SPACE-(De)Select,F10-Start Rebuild,F2-Drive Information,F3-View Virtual Drives When rebuild is complete, press any key to continue. ASUS TS700-E6/RS8 6-17...

Page 126: Checking The Drives For Data Consistency

6.2.5 Checking the drives for data consistency You can check and verify the accuracy of data redundancy in the selected virtual drive. The utility can automatically detect and/or detect and correct any differences in data redundancy depending on the selected option in the Objects > Adapter menu.

Page 127 • Continue - Continues the consistency check. • Abort - Aborts the consistency check. When you restart checking, it continues from zero percent. When checking is complete, press any key to continue. ASUS TS700-E6/RS8 6-19...

Page 128 Using the Objects command To check data consistency using the Objects command From the Management Menu, select Objects, and then select Virtual Drive from the sub-menu. Use the arrow keys to select the virtual drive you want to check, and then press <Enter>. Select Check Consistency from the pop-up menu, and then press <Enter>.

Page 129: Deleting A Raid Configuration

Clear Configuration Select Boot Drive Objects Rebuild Check Consistency Clear Existing Configuration Use Cursor Keys To Navigate Between Items And Press Enter To Select An Option The utility clears all the current array(s). Press any key to continue. ASUS TS700-E6/RS8 6-21...

Page 130: Selecting The Boot Drive From A Raid Set

6.2.7 Selecting the boot drive from a RAID set You must have created a new RAID configuration before you can select the boot drive from a RAID set. See section 6.2.1 Creating a RAID set: Using New Configuration for details. To select the boot drive from a RAID set From the Management Menu, select Configure >...

Page 131: Enabling Writecache

= O n Check Consistency Read Ahead = On Disk Write Cache - Off(Write Through) or On(Write Back) Use Cursor Keys To Navigate Between Items And Press Enter To Select An Option When finished, press any key to continue. ASUS TS700-E6/RS8 6-23...

Page 132: Intel ® Matrix Storage Manager Option Rom Utility

® Intel Matrix Storage Manager Option ROM Utility The Intel ® Matrix Storage Manager Option ROM utility allows you to create RAID 0, RAID 1, RAID 10 (RAID 1+0), and RAID 5 set(s) from Serial ATA hard disk drives that are connected to the Serial ATA connectors supported by the Southbridge. To enter the Intel ®...

Page 133: Creating A Raid Set

Select 2 to 6 disks to use in creating the volume. [↑↓]-Prev/Next [SPACE]-SelectDisk [ENTER]-Done Use the up/down arrow key to select a drive, and then press <Space> to select. A small triangle marks the selected drive. Press <Enter> after completing your selection. ASUS TS700-E6/RS8 6-25...

Page 134: Creating A Recovery Set

Use the up/down arrow key to select the stripe size for the RAID array (for RAID 0, 10 and 5 only), and then press <Enter>. The available stripe size values range from 4 KB to 128 KB. The following are typical values: RAID 0: 128KB RAID 10: 64KB RAID 5: 64KB...

Page 135 Press <Y> to create the recovery set and return to the main menu, or <N> to go back to the CREATE VOLUME menu. If a recovery set is created, you cannot add more RAID sets even when you have more non-RAID disks installed in your system. ASUS TS700-E6/RS8 6-27...

Page 136: Deleting A Raid Set

6.3.3 Deleting a RAID set Take caution when deleting a RAID set. You will lose all data on the hard disk drives when you delete a RAID set. To delete a RAID set From the utility main menu, select 2. Delete RAID Volume and press <Enter>.

Page 137: Resetting Disks To Non-Raid

Use the up/down arrow key to select the RAID set drive(s) you want to reset, and then press <Space> to select. Press <Enter> to reset the RAID set drive(s). A confirmation message appears. Press <Y> to reset the drive(s) or press <N> to return to the utility main menu. ASUS TS700-E6/RS8 6-29...

Page 138: Recovery Volume Options

6.3.5 Recovery Volume Options If you have created a recovery set, you can configure more recovery set options following the descriptions in the section. See section 6.3.2 Creating a Recovery set to create a recovery set before continue. To configure a recovery set From the utility main menu, select 4.

Page 139: Exiting The Intel ® Matrix Storage Manager

Select the port of destination disk for rebuilding (ESC to exit): Port Drive Model Serial # Size XXXXXXXXXXX XXXXXXXX XX.XGB [↑↓]-Previous/Next [ENTER]-Select [ESC]-Exit Select a destination disk with the same size as the original hard disk. ASUS TS700-E6/RS8 6-31...

Page 140: Rebuilding The Raid With A New Hard Disk

The utility immediately starts rebuilding after the disk is selected. The status of the degraded RAID volume is changed to “Rebuild”. Intel(R) Matrix Storage Manager option ROM v8.5.0.1030 ICH10R/DO wRAID5 Copyright(C) 2003-08 Intel Corporation. All Rights Reserved. MAIN MENU 1. Create RAID Volume 3.

Page 141: Setting The Boot Array In The Bios Setup Utility

Use up/down arrow keys to select the boot priority and press <Enter>. See section 5.6.1 Boot Device Priority for details. From the Exit menu, select Exit & Save Changes, then press <Enter>. When the confirmation window appears, select OK, then press <Enter>. ASUS TS700-E6/RS8 6-33...

Page 142 6-34 Chapter 6: RAID configuration...

Page 143 Chapter 7 This chapter provides instructions for installing the necessary drivers for different system components. ASUS TS700-E6/RS8...

Page 144: Chapter 7: Driver Installation

RAID driver installation After creating the RAID sets for your server system, you are now ready to install an operating system to the independent hard disk drive or bootable array. This part provides instructions on how to install the RAID controller drivers during OS installation.

Page 145 RHEL 9 SP3 32 bit RHEL 9 SP3 64 bit RHEL 9 SP4 32 bit RHEL 9 SP4 64 bit RHEL 10 SP1 32 bit RHEL 10 SP1 64 bit RHEL 10 SP2 32 bit RHEL 10 SP2 64 bit Back Exit ASUS TS700-E6/RS8...

Page 146 ITE IT8213F Linux Driver ITE IT8213F Linux Driver RHEL 4 UP6 32/64 bit RHEL 4 UP7 32/64 bit RHEL 5 UP1 32/64 bit RHEL 5 UP2 32/64 bit SLES 9 SP3 32 bit SLES 9 SP3 64 bit SLES 10 32 bit SLES 10 64 bit FreeBSD 7 32/64 bit Back...

Page 147: Windows ® Os

S. * If you do not have any device support disks from a mass storage device manufacturer, or do not want to specify additional mass storage devices for use with Windows, press ENTER. S=Specify Additional Device ENTER=Continue F3=Exit ASUS TS700-E6/RS8...

Page 148 Insert the RAID driver disk you created earlier to the floppy disk drive, then press <Enter>. Windows Setup Please insert the disk labeled Manufacturer-supplied hardware support disk into Drive A: * Press ENTER when ready. ENTER=Continue ESC=Cancel F3=Exit Select the RAID controller driver you need from the list, then press <Enter>. The Windows Setup loads the RAID controller drivers from the RAID driver ®...

Page 149 Select the option Search for a suitable driver for my device (recommended), then click Next. 10. The wizard searches the RAID controller drivers. When found, click Next to install the drivers. 11. Click Finish after the driver installation is done. ASUS TS700-E6/RS8...

Page 150: Red Hat ® Enterprise Linux Os

7.1.3 Red Hat Enterprise Linux OS ® To install the RAID controller driver when installing Red Hat Enterprise OS: ® Boot the system from the Red Hat OS installation CD. ® At the boot:, type linux dd, then press <Enter>. When you are installing RHEL AS5 and loading RAID driver, type after the boot: linux dd noprobe=ata1 noprobe=ata2..

Page 151 Type the following commands when using a USB floppy. cat /proc/partitions Write down the Major and Minor number before sdb for later use. mknod /dev/sdb b [major number] [minor number] mkdir /mnt/driver mount /dev/sdb /mnt/driver cd /mnt/driver sh replace_ahci.sh reboot ASUS TS700-E6/RS8...

Page 152: Suse Linux Enterprise Server Os

7.1.4 SUSE Linux Enterprise Server OS To install the RAID controller driver when installing SUSE Linux Enterprise Server Boot the system from the SUSE OS installation CD. Use the arrow keys to select Installation from the Boot Options menu. Boot from Hard Disk Installation Installation--ACPI Disabled Installation--Local APIC Disabled...

Page 153 Disk, SEAGATE ST336754SS Other device Back The drivers for the RAID controller are installed to the system. * Select USB Disk if you are using a USB floppy. Follow the onscreen instructions to complete the OS installation. ASUS TS700-E6/RS8 7-11...

Page 154: Intel Chipset Device Software Installation

Intel chipset device software installation This section provides instructions on how to install the Plug and Play components for the Intel chipset on the system. ® You need to manually install the Intel chipset software on a Windows XP / Server ®...

Page 155 The Intel(R) Chipset Device Software window appears. Click Next to start the installation. Select Yes to accept the terms of the License Agreement and continue the process.

ASUS TS700-E6/RS8 7-13...

Page 156 Read the Readme File Information and click Next to activate the installation. After completing the installation, click Next to continue. 7-14 Chapter 7: Driver installation...

Page 157 Click Yes, I want to restart this computer now and click Finish to restart the computer. ASUS TS700-E6/RS8 7-15...

Page 158: Lan Driver Installation

LAN driver installation This section provides the instructions on how to install the Intel Gigabit LAN ® controller driver on a Windows ® XP/ Server 2003 OS: Restart the computer, and then log on with Administrator privileges. Insert the motherboard/system support CD to the optical drive. The CD automatically displays the Drivers menu if Autorun is enabled in your computer.

Page 159 When the Intel PRO Network Connections – InstallShield Wizard window ® appears, click Next to start the installation. Click I accept the terms in the license agreement and then click Next to continue. ASUS TS700-E6/RS8 7-17...

Page 160 Select the programs you want to install and click Next to continue. Click Install to start the installation. 7-18 Chapter 7: Driver installation...

Page 161 The programs you select are being installed. Click Finish to finish the installation. ASUS TS700-E6/RS8 7-19...

Page 162: Display Driver Installation

Display driver installation This section provides instructions on how to install the ASPEED display driver on a Windows Server 2003 operating system. ® To install the ASPEED display driver Restart the computer, then log on with Administrator privileges. Insert the motherboard/system support CD to the optical drive. The support CD automatically displays the Drivers menu if Autorun is enabled in your computer.

Page 163 Click Install to start the installation. The system installs the driver automatically. ASUS TS700-E6/RS8 7-21...

Page 164 When the installation completes, click Finish to exit the wizard. Click Yes to restart the computer. 7-22 Chapter 7: Driver installation...

Page 165: Management Applications And Utilities Installation

The contents of the support CD are subject to change at any time without notice. Visit the ASUS website (www.asus.com) for updates. 7.5.1 Running the support CD Place the support CD to the optical drive.

Page 166: Utilities Menu

Storage Manager and LSI Embedded MegaRAID driver disk. 7.5.5 Contact information Click the Contact tab to display the ASUS contact information. You can also find this information on the inside front cover of this user guide. 7-24 Chapter 7: Driver installation...

This manual is also suitable for:

Ts700-e6/rs8