





## Asus ESC2000 Configuration Manual

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## Summary of Contents for Asus ESC2000

[Page 1](#) ESC2000 Configuration Guide...

[Page 2](#) 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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Upgrading system memory .....2-3 Upgrading hard disk drives .....2-6 Replacing hard disk drive cage .....2-7 Installing ASUS PIKE SAS RAID card .....2-8 Upgrading 5.25-in drives ..... 2-9 Installing ASUS Server Management Board .....2-10 Upgrading graphics card

.....2-11 Installing MIO Audio card .....

## [Page 4: 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 5](#) Chapter 1 This chapter describes the key features of ESC2000. It includes the product overview and general specifications.

## [Page 6: Chapter 1: Product Introduction](#)

Key features ASUS ESC2000 is not only a server with flexible expandability and high-capacity storage but also a dual processor personal super computer supporting dual GPU computing cards. Versatile Applications • Cost-performance 2-way Intel Xeon system for small & medium business •...

## [Page 7: System Overview](#)

Items Central processing unit (CPU) CPU heatsink and fan System memory Hard disk drives PIKE 1064E/1068E/1078/6480/2008/2008 IMR module (optional) Graphics card ASUS Server management board (optional) Single power supply System fan Rackmount rail kit (optional) Optical drive (optional) ASUS ESC2000...

## [Page 8: Front Panel Features](#)

Front panel features Message LED LAN1 LED LAN2 LED HDD access LED Power LED Optical drive Empty 5.25-inch bays (optional) Security lock Power button Reset button 4-bay HDD cage Headphone output jack\* Microphone jack\* USB 2.0 ports \*The audio jacks function only with an optional MIO audio card. Chapter 1: Product introduction...

## [Page 9: Rear Panel Features](#)

• The ports for the PS/2 keyboard, PS/2 mouse, serial port, USB, VGA, and Gigabit LAN do not appear on the rear panel if motherboard is not present. • \*The port is for ASUS ASMB4-iKVM controller card only. ASUS ESC2000...

## [Page 10: System Specifications](#)

1.5 System specifications Model Name ESC2000 2 x Socket LGA1366 Intel Xeon X5600 series processors (95W) ® Intel ® Xeon E5600 series processors (80W) Intel Xeon L5600 series processors (60W/40W) ® Processor / System Bus Intel ® Xeon X5500 series processors (95W)

[Page 11](#) ASUS PIKE 1064E 4-port SAS RAID card ASUS PIKE 1068E 8-port SAS RAID card SAS Controller ASUS PIKE 1078 8-port SAS HW RAID card ASUS PIKE 6480 8-port SAS RAID card ASUS PIKE 2008 8-port SAS2 6G RAID card ASUS PIKE 2008/IMR 8-port SAS2 6G RAID card...

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

[Page 13](#) Chapter 2 This chapter lists the key components and optional accessories for the server system.

## [Page 14: Chapter 2: Components](#)

Upgrading CPU and CPU heatsink The ASUS ESC2000 supports 1-2 Quad-core Intel Xeon X5500 / E5500 / L5500 ® ® series processor. We recommend to install CPUs with the same frequency. Order P/N Description Six-Core Intel Xeon X5670, 2.93G, QPI 6.4GT/s, 12MB L2...

## [Page 15: Upgrading System Memory](#)

Upgrading system memory The motherboard comes with six (6) Double Data Rate 3 (DDR3) Dual Inline Memory Modules (DIMM) sockets. DIMM\_C1 DIMM\_C2 DIMM\_C3 DIMM\_B1 DIMM\_B2 DIMM\_B3 DIMM\_A1 DIMM\_A2 DIMM\_A3 DIMM\_D3 DIMM\_D2 DIMM\_D1 DIMM\_E3 DIMM\_E2 DIMM\_E1 DIMM\_F3 DIMM\_F2 DIMM\_F1 ASUS ESC2000...

[Page 16](#) Memory population table For UDIMM and Quad Ranks RDIMM: CPU 1 Configuration

DIMM\_A3 DIMM\_A2 DIMM\_A1 DIMM\_B3 DIMM\_B2 DIMM\_B1 DIMM\_C3 DIMM\_C2 DIMM\_C1 1 DIMM 2 DIMMs 3 DIMMs 4 DIMMs 5 DIMMs 6 DIMMs CPU 2 Configuration DIMM\_D3 DIMM\_D2 DIMM\_D1 DIMM\_E3 DIMM\_E2 DIMM\_E1 DIMM\_F3 DIMM\_F2 DIMM\_F1 1 DIMM 2 DIMMs 3 DIMMs...

[Page 17](#) 2GB DDR3 1333 Reg. ECC (10 in 1) 90-S000I0550T 4GB DDR3 1333 Reg. ECC (10 in 1) 90-S000I0560T 8GB DDR3 1333 Reg. ECC (10 in 1) 90-S000I0580T 4GB DDR3 1333 Reg. ECC (10 in 1) 90-S000I0590T 8GB DDR3 1066 Reg. ECC (100 in 1) ASUS ESC2000...

### [Page 18: Upgrading Hard Disk Drives](#)

Upgrading hard disk drives The system supports four hot-swap SATAII/SAS hard disk drives. We recommend that you install identical drives of the same model and capacity for RAID configuration. Order P/N Description 90-S000H6230T 146GB SAS 15000 rpm with tray 90-S000H6220T 300GB SAS 15000 rpm with tray 90-S000H6440T 450GB SAS 15000 rpm with tray...

### [Page 19: Replacing Hard Disk Drive Cage](#)

Replacing hard disk drive cage ASUS ESC2000...

### [Page 20: Installing Asus Pike Sas Raid Card](#)

Installing ASUS PIKE SAS RAID card The ASUS PIKE SAS RAID card allows users to create SAS RAID sets from SAS hard disk drives connected to the SAS connectors on the motherboard. Install the iButton\*. Insert the PIKE SAS RAID card into the PIKE card slot.

### [Page 21: Upgrading 5.25-In Drives](#)

Upgrading 5.25-in drives ASUS ESC2000...

### [Page 22: Installing Asus Server Management Board](#)

Installing ASUS Server Management Board ASMB4-iKVM • Monitor the running status of major components via LAN or Serial Port, such as CPU and memory utilization, storage capacity and networking transfer rate. • Advanced server management functions including “remote power on/off/reset”, “remote control via SOL (Serial-over LAN)”...

### [Page 23: Upgrading Graphics Card](#)

Upgrading graphics card Contact local distributors for workstation SKU. ASUS ESC2000 2-11...

### [Page 24: Installing Mio Audio Card](#)

Installing MIO Audio card Install the MIO audio card to the onboard PCIe x16 slot (Slot 6). Connect one end of the audio cable to the AAFP connector on the audio card. Connect the other end of the audio cable to the front panel connector on the server chassis.

### [Page 25: Upgrading Front System Fan](#)

2.10 Upgrading front system fan ASUS ESC2000 2-13...

### [Page 26: Rackmount Rail Kit](#)

2.11 Rackmount rail kit Order P/N Description 90-S00SP0280T Rail Kit (Ball Bearing) for ESC2000 Series 2-14 Chapter 2: Components...

### [Page 27: Os Support List](#)

RedHat Enterprise Linux AS5.4 / 5.5 32 / 64-bit ® SuSE Linux Enterprise Server 11 32 / 64-bit ® Order P/N Description 90-S00SW7150T Windows ® Server 2008 STD 64-bit 90-S00SW7151T Windows Server 2008 STD R2 64-bit ® ASUS ESC2000 2-15...

### [Page 28](#) 2-16 Chapter 2: Components...