



Asus ESC4000 IB Configuration Manual

Esc4000 series

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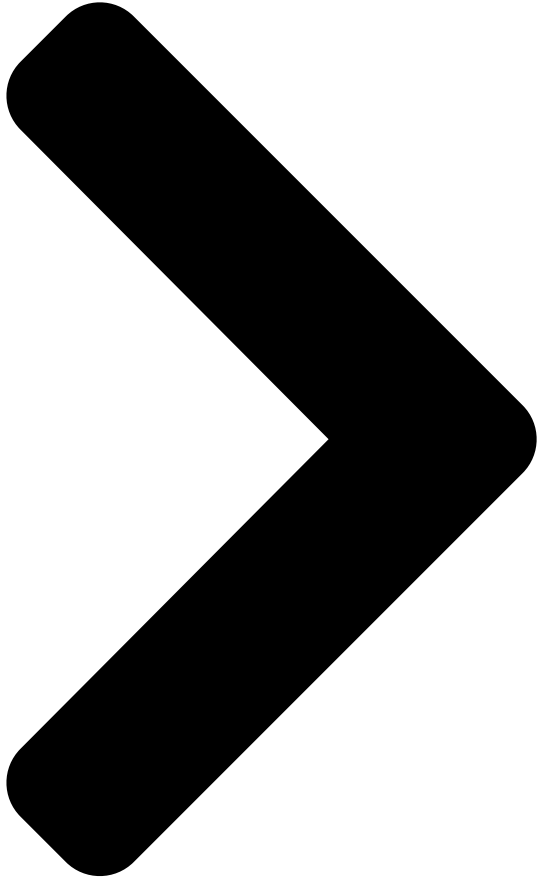
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ESC4000

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Configuration **7505** *Guide*

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[Server Asus ESC4000 DHD G4 User Manual](#)

1u rackmount server (178 pages)

Summary of Contents for Asus ESC4000 IB

[Page 1](#) ESC4000 Series 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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NVIDIA Tesla™ GPU computing modules 2-9 ® OS support list2-10 Revision
history Revision history Date First release of ESC4000 Series configuration guide May
2011...

[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 ESC4000 Series. It includes the
product overview and general specifications.

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

Key features The ASUS ESC4000 is a high density GPU server presented in a compact 2U rack
mount with support for dual Intel ® Xeon ® 5600 series processors, 18 DIMM slots with up to
48GB/144GB memory and 4 double-wide NVIDIA ®...

[Page 7](#) 1400W 80+ Gold power supply delivers reliable and highly efficient power • Hot-swap
hard drive design allows downtime-free drive replacement Remote control and management •
Bundled ASMB4-iKVM module offers advanced server management • KVM-over internet
provides OS-independent manageability • Ideal for remote office applications ASUS ESC4000
Series...

[Page 8: System Overview](#)

System overview Items Items 1. Hard disk drive bay 2. Hard disk drive 3. Computing module
bracket 4. Computing module 5. Computing module airduct 6. CPU 7. CPU heatsink 8. ASMB4-
iKVM controller card 9. DDR3 DIMM 10. PCI-E x16 riser card 11.

[Page 9: Front Panel Features](#)

HDD 2 HDD 6 HDD 3 HDD 7 HDD 4 HDD 8 Rear panel features InfiniBand port (for ESC4000/IB
only) LAN port 1 Half-length / Low-profile LAN port 2 Expansion slot 4 Full-length 4 Full-length
Expansion slots Expansion slots *The port is for ASUS ASMB4-iKVM controller card only. ASUS
ESC4000 Series...

[Page 10: System Specifications](#)

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 ASUS PIKE 2108 8-port SAS2 6G H/W RAID card (continued
on the next page) Chapter 1: Product introduction...

[Page 11](#) 4 x USB 2.0 ports (Front x 2, Rear x 2) Onboard I/O 1 x Internal A Type USB Port 1 x
VGA port 1 x QSFP Port for Infiniband QDR (@ DDR speed, for ESC4000/IB only) Windows Server
2008 R2 ® Windows ®...

[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 ASUS ESC4000 Series supports two Intel LGA1366 Xeon
processors per Node. ® ® We recommend to install CPUs with the same frequency. Chapter 2:
Components...

[Page 15](#) Single Pack with 1U Heatsink 90-S000U09B0T Quad Core Intel Xeon L5630, 2.13GHz,
QPI 5.86GT/s, 12MB L2, Single Pack with 1U Heatsink 90-S000U09C0T Quad Core Intel Xeon
L5609, 1.86GHz, QPI 4.8GT/s, 12MB L2, Single Pack with 1U Heatsink ASUS ESC4000 Series...

[Page 16: Upgrading System Memory](#)

Upgrading system memory The motherboard comes with eighteen (18) Double Data Rate 3 (DDR3) Dual Inline Memory Modules (DIMM) sockets. DIMM_A3 DIMM_D3 DIMM_A2 DIMM_D2 DIMM_A1 DIMM_D1 DIMM_B3 DIMM_E3 DIMM_B2 DIMM_E2 DIMM_B1 DIMM_E1 DIMM_C3 DIMM_F3 DIMM_C2 DIMM_F2 DIMM_C1 DIMM_F1 You may install 1 GB, 2 GB, 4 GB and 8 GB registered DDR3 DIMMs with ECC or 1GB, 2GB and 4GB unbuffered DDR3 DIMMs with ECC into the DIMM sockets using the memory configurations in this section.

[Page 17](#) 5 DIMMs 6 DIMMs 7 DIMMs 8 DIMMs 9 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 4 DIMMs 5 DIMMs 6 DIMMs 7 DIMMs 8 DIMMs 9 DIMMs ASUS ESC4000 Series...

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

Upgrading hard disk drives The system supports eight 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-S000H65D1T SATA3 500G 7200rpm with tray (single pack) 90-S000H65C1T SATA3 750G 7200rpm with tray (single pack) 90-S000H65B1T...

[Page 19: Installing Asus Server Management Board](#)

Installing ASUS Server Management Board ASUS Server Management Board is an Intelligent Platform Management Interface (IPMI) 2.0-compliant board that allows users to monitor, control and manage a remote server from the local or central server in local area network (LAN).

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

Installing ASUS PIKE RAID module The ASUS PIKE RAID module allows users to create RAID function from SAS hard disk drives connected to the SAS connectors on the motherboard. Firmly hold the riser card bracket, and then pull it up to detach it from the PCI Express x16 slot on the motherboard.

[Page 21: Nvidia](#)

Order P/N Description 90-S000R1E00T TESLA C2050 3GB GPU CARD Single Pack 90-S000R1F00T TESLA C2070 6GB GPU CARD Single Pack 90-S000R1G00T TESLA M2070 6GB GPU CARD Single Pack 90-S000R1H00T TESLA M2050 3GB GPU CARD Single Pack ASUS ESC4000 Series...

[Page 22: Os Support List](#)

OS support list OS support list Windows Server 2008 Enterprise Edition SP2 x86 Windows Server 2008 Enterprise Edition SP2 x64 Windows Server 2008 Standard Edition R2 x64 Windows 7 x86 Windows 7 x64 Red Hat Enterprise Linux AS 5.5 x86 Red Hat Enterprise Linux AS 5.5 x64 SuSE Linux Enterprise Server 11 SP1 x86 SuSE Linux Enterprise Server 11 SP1 x64...

This manual is also suitable for:

[Esc4000 fdr g2](#)