



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ASUS A8N-SLI SE. You'll find the answers to all your questions on the ASUS A8N-SLI SE in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ASUS A8N-SLI SE
User guide ASUS A8N-SLI SE
Operating instructions ASUS A8N-SLI SE
Instructions for use ASUS A8N-SLI SE
Instruction manual ASUS A8N-SLI SE

A8N-SLI SE

ASUS

Motherboard



[You're reading an excerpt. Click here to read official ASUS A8N-SLI SE user guide](http://yourpdfguides.com/dref/4198161)

<http://yourpdfguides.com/dref/4198161>

.....
.....
.....

..... 1-1 Package contents ..

.....
.....
.....

.....
.....
.....

... 1-1 Special features ..

.....
.....

.....
.....
.....

.....
.....

. 1-2 1.3.1 1.3.2 1.3.3 2.1 2.2 Product highlights .

.....
.....
.....

.....
.....

1-2 ASUS Proactive features

.....
.....
.....

1-4 Innovative ASUS features

.....
.....
.....

..... 1-5 Chapter 2: Hardware information Before you proceed .

.....
.....
.....

.....
.....
.....

. 2-1 Motherboard overview

.....
.....

.....
.....
.....

.....

..... 2-2 2.
2.1 2.2.2 2.2.
3 2.2.4 2.3 2.3.
1 2.3.2 2.3.3 2.4 2.4.1 2.4.2 2.

4.3 2.4.4 2.5 2.5.1 Placement direction

.....

.....

.....

.....

.....

.....

.... 2-2 Screw holes

.....

.....

.....

.....

.....

.....

.....

..... 2-2 Motherboard layout

.....

.....

.....

.....

... 2-3 Layout Contents ..

.....

.....

.....

.....

.....

.....

..... 2-4 Overview

.....

.....

.....

.....

.....

.....

.....

. 2-6 Installing the CPU

.....

.....

.....

.....

.....

.....

... 2-6 Installing the heatsink and fan

.....

.....

.....

..... 2-8 Overview

.....
.....
.....

.....
.....
.....
.....

..... 2-11 Memory Configurations ..

.....
.....
.....

.....
.....

.... 2-11 Installing a DIMM .

.....
.....
.....
.....
.....

2-14 Removing a DIMM

.....
.....
.....
.....
.....

2-14 Installing an expansion card

.....
.....
.....

.... 2-15 Central Processing Unit (CPU)

.....
.....
.....
.....
.....
.....

2-6 System memory.....

.....
.....
.....
.....
.....
.....
.....

..... 2-11 Expansion slots

.....
.....
.....
.....
.....
.....

.....
.....
4-2 Saving the current BIOS file

.....
.....
.....
..... 4-4 ASUS CrashFree BIOS 2 utility

.....
.....
.....
..... 4-5 ASUS EZ Flash utility ..

.....
.....
.....
.....
.....
4-7 ASUS Update utility

.....
.....
.....
.....
.....
... 4-8 BIOS menu screen

.....
.....
.....
.....
.....
.. 4-12 Menu bar

.....
.....
.....
.....
.....
.....
..... 4-12 Legend bar

.....
.....
.....
.....
.....
.....
..... 4-13 Menu items

.....
.....
.....
.....
.....
.....

.... 4-13 Sub-menu items

.....
.....
.....
.....

. 4-13 Configuration fields

.....
.....
.....
.....

... 4-13 Pop-up window

.....
.....
.....

..... 4-14 General help ...

.....
.....
.....
.....

..... 4-14 BIOS setup program

.....
.....
.....
.....

..... 4-11 Main menu.....

.....
.....
.....
.....

4-15 iv Contents 4.3.1 4.3.2 4.
3.3 4.3.4 4.3.
5 4.3.6 4.3.7 4.3.8 4.4 4.4.1 4.

4.2 4.4.3 4.4.4 4.4.5 4.4.6 4.
5 4.5.1 4.5.2 4.
5.3 4.5.4 4.6 4.
6.1 4.6.2 4.6.3 4.6.4 4.6.5 4.

7 5.1 System Time

.....
.....
.....

..... 4-15 System Date ...

.....
.....
.....
.....

... 4-15 Legacy Diskette A

.....
.....
.....
.....

4-15 Primary and Secondary IDE Master/Slave

.....

... 4-16 First, Second, Third, Fourth SATA Master

..... 4-18 HDD SMART Monitoring

.....
.....
.....

. 4-19 Installed Memory

.....
.....
.....
.....
.....

..... 4-19 Usable Memory...

.....
.....
.....
.....
.....
.....

. 4-19 CPU Configuration

.....
.....
.....

4-20 PCI PnP

.....
.....

.....
.....

.....
.....
.....
.....
..... 4-23 Onboard Devices Configuration....

.....
.....
.....
..... 4-24 SLI Configuration.....

.....
.....
.....
.....
.....
..... 4-29 JumperFree Configuration

.....
.....
.....
..... 4-30 PEG Link Mode.....

.....
.....
.....
.....
.....
..... 4-32 ACPI Suspend Type ..

.....
.....
.....
.....
..... 4-34 ACPI APIC Support

.....
.....
.....
..... 4-34 APM Configuration

.....
.....
.....
.....
..... 4-35 Hardware Monitor....

.....
.....
.....
.....

. 4-37 Boot Device Priority

.....
.....
.....

.. 4-39 Removable Drives...

.....
.....
.....
.....
.....

..... 4-40 Hard Disk Drives ...

.....
.....
.....

..... 4-40 Boot Settings Configuration .

.....
.....
.....
.....

. 4-41 Security

.....
.....
.....

..... 4-43 Advanced menu

.....
.....
.....

.. 4-20 Power menu ...

.....
.....
.....

.... 4-34 Boot menu

.....

.....
.....
.....

.....
.....
.....
.....

..... 4-39 Exit menu ..

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.... 4-45 Installing an operating system

.....
.....
.....
.....

5-1 Chapter 5: Software support v Contents 5.2 Support CD information

.....
.....

.....
.....
.....
.....

..... 5-1 5.2.1 5.

2.2 5.2.3 5.2.

4 5.2.5 5.2.6 5.

3 5.3.1 5.3.2 5.3.3 5.4 5.4.1 5.

4.2 5.5 5.6 Running the support CD

.....
.....
.....

.....
.....

5-1 Drivers menu

.....
.....
.....
.....
.....

.... 5-2 Utilities menu .

.....
.....

.....
.....

.....

.. 5-3 Manuals menu ...

.....

.....

.....

.....

.....

.....

..... 5-5 ASUS Contact information .

.....

.....

.....

.....

.....

.. 5-6 Other information ...

.....

.....

.....

.....

.....

..... 5-6 ASUS MyLogo2TM ..

.....

.....

.....

.....

.....

.....

.....

. 5-9 Audio configurations

.....

.....

.....

.....

.....

. 5-11 Using the NVIDIA® FirewallTM...

.....

.....

.....

.....

5-17 Installing hard disks

.....

.....

.....

.....

..... 5-21 NVIDIA® RAID configurations ...

.....

.....

.....

.....

5-22 Software information

.....

.....

.....
.....
.....
.....

.....
5-9 RAID configurations

.....
.....
.....
.....
.....

.....
5-20 Creating a RAID driver disk

.....
.....
.....
.....
.....

.....
..... 5-29 Cool n Quiet!™ Technology .

.....
.....
.....
.....

.....
.....
. 5-30 5.6.1 5.6.

2 Enabling Cool n Quiet!™ Technology

..... 5-30 Launching the Cool n Quiet!™ software .

.....
.....
.....

... 5-31 Managing your nForce™ system

.....
.....
.....

. 5-32 Clock control

.....
.....
.....
.....

.....
.....
... 5-33 Voltage/Fan control ..

.....
.....
.....
.....
.....

.... 5-33 Information

.....
.....
.....
.....
.....

.....
.....

... 5-34 Other options

.....
.....
.....

.....
.....
.....

..... 5-34 Launching the ASUS AI Selector .

.....
.....
.....

..... 5-35 Using the SLI mode

.....
.....
.....
.....

... 5-36 5.7 Using the NVIDIA® nTune™ utility .

.....
.....

.....
.....
.....

... 5-32 5.7.1 5.7.2 5.7.3 5.

7.4 5.7.5 5.8 Using the ASUS AI Selector utility

.....
.....
.....

.. 5-35 5.8.1 5.

8.2 Chapter 6: SLITM technology support 6.1 6.2 Overview ..

.....
.....
.....
.....
.....

.....
.....
.....
.....

..... 6-1 Dual graphics card setup ...

.....
.....
.....

.....
.....
.....
.....

. 6-2 6.2.1 Installing SLI-ready graphics cards

.....
.....

..... 6-2 vi 6.

2.2 6.2.3 6.2.4 6.2.5 Installing the device drivers ...

.....
.....
.....

... 6-5 Installing the ASUS AI Selector utility ..

.....
.....

.... 6-5 Enabling the multi-GPU feature in Windows

.....
.....

. 6-6 Setting the ASUS AI Selector utility

.....

..... 6-8 vii 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. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Detailed descriptions of the BIOS parameters are also provided. · Chapter 5: Software support This chapter describes the contents of the support CD that comes with the motherboard package.

· · Chapter 6: NVIDIA® SLITM technology support This chapter tells how to install SLI-ready PCI Express graphics cards. Appendix: Installation options This appendix describes how to install optional accessories to your motherboard. x Where to find more information Refer to the following sources for additional information and for product and software updates. 1. ASUS websites The ASUS website provides updated information on ASUS hardware and software products.

Refer to the ASUS contact information. 2. Optional documentation Your product package may include optional documentation, such as warranty flyers, that may have been added by your dealer. These documents are not part of the standard package. Conventions used in LAN AI Audio USB Rear panel BIOS features (continued on the next page) xiii A8N-SLI SE specifications summary Power Requirement Form Factor Support CD contents ATX power supply (with 24-pin and 4-pin 12 V plugs) ATX 12 V 2.0 compliant ATX form factor: 12 in x 9.6 in (30.5 cm x 24.4 cm) Device drivers ASUS PC Probe II ASUS Live Update utility ASUS CoolnQuiet! utility Anti-virus utility (OEM version) NVIDIA® nTune™ utility *Specifications are subject to change without notice. xiv This chapter describes the motherboard features and the new technologies it supports.

Product introduction 1 Chapter summary 1.1 1.2 1.3 Welcome!

.....
.....
.....

.....
.....
.....

.....
.....
.....

. 1-1 Package contents

.....
.....
.....

.....
.....
.....

..... 1-1 Special features

.....
.....
.....

.....
.....
.....

.... 1-2 ASUS A8N-SLI SE 1.1 Welcome! Thank you for buying an ASUS® A8N-SLI SE motherboard! The motherboard delivers a host of new features and latest technologies, making it another standout in the long line of ASUS quality motherboards! Before you start installing the motherboard, and hardware devices on it, check the items in your package with the list below.



[You're reading an excerpt. Click here to read official ASUS A8N-SLI SE user guide](http://yourpdfguides.com/dref/4198161)

<http://yourpdfguides.com/dref/4198161>

1.2 Package contents ASUS A8N-SLI SE motherboard 2 x Serial ATA signal cables Serial ATA power cable with dual plugs Ultra DMA/133 cable 40-conductor IDE cable Floppy disk drive cable I/O shield SLITM flexible cable USB2.0 2-port module ASUS motherboard support CD User guide Check your motherboard package for the following items. Motherboard Cables Accessories Application CDs Documentation If any of the above items is damaged or missing, contact your retailer.

ASUS A8N-SLI SE 1-1 1.3 1.3.1 Special features Product highlights Latest processor technology The AMD Athlon™ 64FX, Athlon™ 64 and Athlon 64x2 desktop processors are based on AMD's 64-bit and 32-bit architecture, which represents the landmark introduction of the industry's first x86-64 technology.

These processors provide a dramatic leap forward in compatibility, performance, investment protection, and reduced total cost of ownership and development.

See page 2-6 for details. Scalable Link Interface (SLITM) technology The NVIDIA® nForce4® Scalable Link Interface (SLITM) technology allows two graphics processing units (GPUs) in a single system. This technology takes advantage of the PCI Express™ bus architecture and features intelligent hardware and software solutions that allows multiple GPUs to work together and achieve exceptional graphics performance. See Chapter 6 for details. Built-in NV Firewall™ and NV ActiveArmor™ The NVIDIA® Firewall™ (NV Firewall™) is an easy-to-use high-performance desktop firewall application that protects your system from intruders.

Integrated into the NVIDIA® nForce4® SLITM chipset with the NVIDIA® Gigabit Ethernet, it provides advanced anti-computer-hacking technologies, remote management capabilities, and a user-friendly setup wizard that improves overall system security. Enhancing your network security is the NVIDIA® ActiveArmor™ (NV ActiveArmor™) engine that provides advanced data packet inspection. This innovative technology ensures that only safe data packets are passed on the network. It boosts overall system performance by offloading the CPU from the rigorous task of filtering data packets. See page 5-17 for details. AMD Cool n Quiet!™ Technology The motherboard supports the AMD Cool n Quiet!™ Technology that dynamically and automatically changes the CPU speed, voltage and amount of power depending on the task the CPU performs. See pages 4-22 and 5-31. 1-2 Chapter 1: Product introduction HyperTransport™ Technology HyperTransport™ Technology is a high-speed, low latency, point-to-point link designed to increase the communication speed between integrated circuits in computers, networking and telecommunications equipment up to 48 times faster than other existing technologies. Dual Channel DDR memory support Employing the Double Data Rate (DDR) memory technology, the motherboard supports up to 4GB of system memory using DDR400/333/266 DIMMs. The ultra-fast 400MHz memory bus delivers the required bandwidth for the latest 3D graphics, multimedia, and Internet applications.

See page 2-11. Serial ATA II technology The motherboard supports the next-generation Serial ATA 3Gb/s technology through the Serial ATA interfaces and the NVIDIA® SLITM chipset. The SATA 3Gb/s specification provides twice the bandwidth of the current Serial ATA products with a host of new features including Native Command Queuing (NCQ), Power Management (PM) Implementation Algorithm, and Hot Swap. Additionally, Serial ATA allows thinner, more flexible cables with lower pin count, and reduced voltage requirement. See pages 2-21. RAID Solution The NVIDIA® nForce4® SLITM allows RAID 0, RAID 1, RAID 0+1 and JBOD configuration for four SATA and two PATA connectors. See pages 2-21 and 5-22 for details. PCI Express™ interface The motherboard fully supports PCI Express, the latest I/O interconnect technology that speeds up the PCI bus. PCI Express features point-to-point serial interconnections between devices and allows higher clock speeds by carrying data in packets. This high speed interface is software compatible with existing PCI specifications.

See page 2-15 and 2-16 for details. S/PDIF digital sound ready The motherboard supports the S/PDIF Out function through the S/PDIF interfaces on the rear panel. The S/PDIF technology turns your computer into a high-end entertainment system with digital connectivity to powerful audio and speaker systems. See page 2-18 for details. ASUS A8N-SLI SE 1-3 USB 2.0

technology The motherboard implements the Universal Serial Bus (USB) 2.0 specification, dramatically increasing the connection speed from the 12 Mbps bandwidth on USB 1.1 to a fast 480 Mbps on USB 2.0. USB 2.0

is backward compatible with USB 1.1. See page 2-18 and 2-23 for details. Temperature, fan, and voltage monitoring The CPU temperature is monitored by the ASIC (integrated in the Winbond Super I/O) to prevent overheating and damage. The system fan rotations per minute (RPM) is monitored for timely failure detection. The ASIC monitors the voltage levels to ensure stable supply of current for critical components. See section "4.5.4 Hardware Monitor" on page 4-37. 1.

3.2 ASUS Proactive features AI NOSTM (Non-Delay Overclocking System) ASUS Non-delay Overclocking System™ (NOS) is a technology that auto-detects the CPU loading and dynamically overclocks the CPU speed only when needed. See page 4-30 for details. AI Audio technology The motherboard supports 6-channel audio through the onboard ALC850 CODEC with 16-bit DAC, a stereo 16-bit ADC, and an AC97 2.3 compatible multi-channel audio designed for PC multimedia systems. It also provides Jack-Sensing function, S/PDIF out support, interrupt capability and includes the Realtek® proprietary UAJ® (Universal Audio Jack) technology. See pages 2-18, 2-19 and 5-11 for details. 1-4 Chapter 1: Product introduction 1.3.3 Innovative ASUS features ASUS AI Selector The AI Selector allows you to set the video card mode of your system.

This utility works when you have two graphics cards installed in your system. See page 5-35 for details. ASUS EZ Plug™ This patented ASUS technology is a 4-pin auxiliary +12V connector that is designed to maintain the voltage integrity of your system. This plug guarantees adequate supply of power to the motherboard and other installed peripherals. See page 6-4 for illustration.

ASUS Two-slot thermal design The motherboard is designed with one PCI Express x1 slots and PCI Express x4 slots placed between the PCI Express x16 slots allowing an increase in airflow between the two PCI Express x16 graphics cards. This special design permits more room for ventilation thus lowering the overall system temperature. CrashFree BIOS 2 This feature allows you to restore the original BIOS data from the support CD in case when the BIOS codes and data are corrupted. This protection eliminates the need to buy a replacement ROM chip. See page 4-5 for details.



[You're reading an excerpt. Click here to read official ASUS A8N-SLI SE user guide](http://yourpdfguides.com/dref/4198161)

<http://yourpdfguides.com/dref/4198161>

ASUS Q-Fan2 technology The ASUS Q-Fan2 technology smartly adjusts the fan speeds according to the system loading to ensure quiet, cool, and efficient operation. See page 4-37 for details. ASUS MyLogo2™ This new feature present in the motherboard allows you to personalize and add style to your system with customizable boot logos. See page 5-9 for details. ASUS A8N-SLI SE 1-5 1-6 Chapter 1: Product introduction This chapter lists the hardware setup procedures that you have to perform when installing system components. It includes description of the jumpers and connectors on the motherboard. 2 Hardware information Chapter summary 2.1 2.2 2.3 2.

4 2.5 2.6 2.7 Before you proceed

.....
.....
.....

.....
.....
.....
.....

..... 2-1 Motherboard overview

.....
.....
.....

.....
.....
.....
.....

... 2-2 Central Processing Unit (CPU)

.....
.....
.....

.....
.....

.... 2-6 System memory.

.....
.....

.....
.....
.....

.....
.....
.....

..... 2-11 Expansion slots

.....
.....
.....

.....
.....
.....
.....

.. 2-14 Jumpers

.....
.....
.....

.....
.....
.....
.....

.....

.....
.....
2-17 Connectors

.....
.....
.....
.....
.....
.....
.....

... 2-18 ASUS A8N-SLI SE 2.1 Before you proceed Take note of the following precautions before you install motherboard components or change any motherboard settings. · Make sure that your power supply unit (PSU) can provide at least the minimum power required by your system. See "7. ATX power connectors" on page 2-25 for details. Unplug the power cord from the wall socket before touching any component. Use a grounded wrist strap or touch a safely grounded object or to a metal object, such as the power supply case, before handling components to avoid damaging them due to static electricity Hold components by the edges to avoid touching the ICs on them.

Whenever you uninstall any component, place it on a grounded antistatic pad or in the bag that came with the component. Before you install or remove any component, ensure that the ATX power supply is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard, peripherals, and/or components. Onboard LED The motherboard comes with a standby power LED that lights up to indicate that the system is ON, in sleep mode, or in soft-off mode. This is a reminder that you should shut down the system and unplug the power cable before removing or plugging in any motherboard component.

The illustration below shows the location of the onboard LED. The red warning LED lights up when you installed two graphics card but did not connect the ASUS EZ Plug™. The illustration below shows the location of the onboard LEDs. WARN_LED When use 2 Graphics but do not plug EZ-PLUG A8N-SLI SE ON When use 2 Graphics but do plug EZ-PLUG OFF SB_PWR ON Standby Power OFF Powered Off® A8N-SLI SE Onboard LED If you are using a 24-pin power connector, you may ignore the warning LED. ASUS A8N-SLI SE 2-1 2.

2 Motherboard overview Before you install the motherboard, study the configuration of your chassis to ensure that the motherboard fits into it. Make sure to unplug the power cord before installing or removing the motherboard. Failure to do so can cause you physical injury and damage motherboard components.

2.2.1 Placement direction When installing the motherboard, make sure that you place it into the chassis in the correct orientation. The edge with external ports goes to the rear part of the chassis as indicated in the image below. 2.2.2 Screw holes Place nine (9) screws into the holes indicated by circles to secure the motherboard to the chassis.

Do not overtighten the screws! Doing so can damage the motherboard. Place this side towards the rear of the chassis A8N-SLI SE® 2-2 Chapter 2: Hardware information 2.2.3 PS/2KBMS T: Mouse B: Keyboard SPDIF_O Motherboard layout 24.5cm (9.6in) CHA2_FAN CPU_FAN ATX12V PARALLEL PORT DDR DIMM_A1 (64 bit, 184-pin module) DDR DIMM_A2 (64 bit, 184-pin module) DDR DIMM_B1 (64 bit, 184-pin module) DDR DIMM_B2 (64 bit, 184-pin module) Socket 939 EATXPWR FLOPPY SATA3 SATA1 F_USB12 LAN_USB34 CD AUX PWR_FAN WARN_LED Top:Line In Center:Line Out Bottom: Mic In Gigabit PHY EZ_PLUG PCIEX16_1 PCIEX1_1 PCIEX4_1 ALC850 A8N-SLI SE NVIDIA nForce4 SLI PCIEX16_2 R CHIP_FAN SATA4 PC11 PCI2 PCI3 USB78 SB_PWR SATA2 CR2032 3V Lithium Cell CMOS Power 4Mb BIOS CLRTC USB910 Super I/O CHA1_FAN CHASSIS PANEL USB56 GAME COM1 ASUS A8N-SLI SE 30.5cm (12.0in) FP_AUDIO SEC_IDE PRI_IDE 2-3 2.2.4 Slots Layout Contents Page 2-11 2-16 2-17 2-17 2-17 1. DDR DIMM slots 2. PCI slots 3. PCI Express x16 slot 4. PCI Express x1 slot 5. PCI Express x4 slot Jumpers 1.

Clear RTC RAM (3-pin CLRTC1) Page 2-18 Rear panel connectors 1. PS/2 mouse port (green) 2. Parallel port 3. LAN (RJ-45) port 4. Line In port (light blue) 5. Line Out port (lime) 6. Microphone port (pink) 7. USB 2.0 ports 3 and 4 8. USB 2.0 ports 1 and 2 9. Coaxial S/PDIF out port 10. PS/2 keyboard port (purple) Page 2-19 2-19 2-19 2-19 2-19 2-19 2-19 2-19 2-20 2-4 Chapter 2: Hardware information Internal connectors 1. Floppy disk drive connector (34-1 pin FLOPPY) 2. IDE connector (40-1 pin PRI_IDE, 40-1 pin SEC_IDE) 3.

nForce 4 Serial ATA connectors (7-pin SATA1, SATA2, SATA3, SATA4) 4. CPU, Chassis, Chipset and Power fan connectors(3-pin CPU_FAN, 3-pin CHA2_FAN, 3-pin CHIP_FAN, 3-pin PWR_FAN, 3-pin CHA1_FAN) 5. Serial port connector (10-1 pin COM1) 6. USB headers (10-1 USB56, USB78, USB910) 7 ATX power connectors (24-pin EATXPWR1, 4-pin ATX12V1, 4-pin EZ_PLUG) 8. Internal audio connectors (4-pin CD, AUX) 9. GAME/MIDI connector (16-1 pin GAME) 10. Chassis intrusion connector (4-1 pin CHASSIS) 11. Front panel audio connector (10-1 pin FP_AUDIO) 12. System panel connectors (20-1 pin PANEL) - System Power LED (Green 3-pin PLED) - Hard Disk activity (Red 2-pin IDE_LED) - System warning speaker (Orange 4-pin SPEAKER) - Power/Soft-off button(Yellow 2-pin PWRSW) - Reset switch (Blue 2-pin RESET) Page 2-21 2-21 2-22 2-23 2-24 2-24 2-25 2-26 2-26 2-27 2-27 2-28 ASUS A8N-SLI SE 2-5 2.3 2.

3.1 Central Processing Unit (CPU) Overview The motherboard comes with a surface mount 939-pin Zero Insertion Force (ZIF) socket designed for the AMD Athlon™ 64FX, AMD Athlon™ 64 or AMD Athlon™ 64X2 processor. The 128-bit-wide data paths of these processors can run applications faster than processors with only 32-bit or 64-bit wide data paths. Take note of the marked corner (with gold triangle) on the CPU. This mark should match a specific corner on the socket to ensure correct installation.

Gold triangle 2.3.2 1. Installing the CPU To install a CPU: Locate the CPU socket on the motherboard. A8N-SLI SE® A8N-SLI SE CPU Socket 939 Before installing the CPU, make sure that the socket box is facing towards you and the load lever is on your left.

2-6 Chapter 2: Hardware information 2. Unlock the socket by pressing the lever sideways, then lift it up to a 90°-100° angle. Socket Lever Make sure that the socket lever is lifted up to 90°-100° angle, otherwise the CPU does not fit in completely.



[You're reading an excerpt. Click here to read official ASUS A8N-SLI SE user guide](#)

... 2-12 Chapter 2: Hardware information Size 256MB 512MB 256MB 512MB 256MB 512MB 256MB 512MB 256MB 512MB 512MB 256MB 512MB
Vendor Kreton Kreton Veritech Veritech Pmi Pmi ProMOS ProMOS Deutron Deutron crucial Novax Novax N/A N/A VT400FMV/2561103
VT400FMV/5121003 MD44256VIT3208GMHA01 MD44512VIT3208GATA03 V826632K24SCTG-D0 V826664K24SCTG-D0 AL5D8C53T-5BIT
AL6D8C53T-5BIT BL6464Z402.



[You're reading an excerpt. Click here to read official ASUS A8N-SLI](#)

[SE user guide](#)

<http://yourpdfguides.com/dref/4198161>

16TG 96M425653CE-40TB6 96M451253CE-40TB6 Model CL N/A N/A 3 3 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 Brand VT VT VT VT MOSEL MOSEL N/A N/A
PSC PSC Ballistix CEON CEON Side(s) SS DS SS DS SS DS SS DS SS DS SS DS SS DS VT3225804T-5 VT3225804T-5 VT56DD32M8PC-5 VT56DD32M8PC-5
V58C2256804SAT5B V58C2256804SAT5B V58C2256804SCT5B V58C2256804SCT5B A2S56D30CTP A2S56D30CTP N/A C2S56D30TP-5 C2S56D30TP-5
Component DIMMsupport A B C Side(s): SS - Single-Sided DIMM Support: DS - Double-Sided A - supports

one module inserted into either the blue slots, in a Single-channel memory configuration.

B - supports on pair of modules inserted into either the blue slots or the black slots as one pair of Dual-channel memory configuration. C - support for 4 modules inserted into the blue and black slots as two pairs of Dual-channel memory configuration. Visit the ASUS website (www.asus.com) for the latest DDR 400 Qualified Vendors List.

ASUS A8N-SLI SE 2-13 2.4.3 Installing a DIMM Make sure 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. 2 DDR DIMM notch 1.

2. Unlock a DIMM socket by pressing the retaining clips outward. Align a DIMM on the socket such that the notch on the DIMM matches the break on the socket. 1 1 Unlocked retaining clip A DDR DIMM is keyed with a notch so that it fits in only one direction. DO NOT force a DIMM into a socket to avoid damaging the DIMM. 3. Firmly insert the DIMM into the socket until the retaining clips snap back in place and the DIMM is properly seated. Locked Retaining Clip 2.4.4 Removing a DIMM Follow these steps to remove a DIMM.

1. Simultaneously press the retaining clips outward to unlock the DIMM. 2 1 1 DDR DIMM notch Support the DIMM lightly with your fingers when pressing the retaining clips. The DIMM might get damaged when it flips out with extra force. 2. Remove the DIMM from the socket. 2-14 Chapter 2: Hardware information 2.5 Expansion slots In the future, you may need to install expansion cards. The following sub-sections describe the slots and the expansion cards that they support. Make sure to unplug the power cord before adding or removing expansion cards.

Failure to do so may cause you physical injury and damage motherboard components. 2.5.1 1. 2.

3. 4. 5. 6. Installing an expansion card To install an expansion card: Before installing the expansion card, read the documentation that came with it and make the necessary hardware settings for the card.

Remove the system unit cover (if your motherboard is already installed in a chassis). Remove the bracket opposite the slot that you intend to use. Keep the screw for later use. Align the card connector with the slot and press firmly until the card is completely seated on the slot. Secure the card to the chassis with the screw you removed earlier. Replace the system cover. 2.5.2 Configuring an expansion card After installing the expansion card, configure it by adjusting the software settings. 1.

2. 3. Turn on the system and change the necessary BIOS settings, if any. See Chapter 4 for information on BIOS setup. Assign an IRQ to the card. Refer to the tables on the next page. Install the software drivers for the expansion card. ASUS A8N-SLI SE 2-15 2.5.3 IRQ 0 1 2 4 5 6 7 8 9 10 11 12 13 14 15 Interrupt assignments Priority 1 2 12 13 14 15 3 4 5 6 7 8 9 10 Standard Function System Timer Keyboard Controller Re-direct to IRQ#9 Communications Port (COM1)* IRQ holder for PCI steering* Floppy Disk Controller Printer Port (LPT1)* System CMOS/Real Time Clock IRQ holder for PCI steering* IRQ holder for PCI steering* IRQ holder for PCI steering* PS/2 Compatible Mouse Port* Numeric Data Processor Primary IDE Channel Secondary IDE Channel Standard interrupt assignments * These IRQs are usually available for ISA or PCI devices.

IRQ assignments for this motherboard A PCI slot 1 PCI slot 2 PCI slot 3 Onboard USB 1.0 controller Onboard USB 2.0 controller B C D ----- E ----- F ----- G ----- H ----- shared ----- shared ----- shared shared --- shared --- When using PCI cards on shared slots, ensure that the drivers support "Share IRQ" or that the cards do not need IRQ assignments. Otherwise, conflicts will arise between the two PCI groups, making the system unstable and the card inoperable. 2.

5.4 PCI slots The PCI slots support cards such as a LAN card, SCSI card, USB card, and other cards that comply with PCI specifications. The figure shows a LAN card installed on a PCI slot. 2-16 Chapter 2: Hardware information 2.5.

5 Two PCI Express x16 slots This motherboard supports one PCI Express x16 graphics card or two SLI-ready PCI Express x16 graphic cards that comply with the PCI Express specifications. The figure shows a graphics card installed on the PCI Express x16 slot. See Chapter 6 for details on the SLI technology feature. In Single Video Card mode, only the PCI Express blue slot can be used for PCI Express x16 graphics cards. 2.5.6 PCI Express x1 slot This motherboard supports PCI Express x1 network cards, SCSI cards and other cards that comply with the PCI Express specifications. The figure shows a network card installed on the PCI Express x1 slot. 2.5.

7 PCI Express x4 slot This motherboard provides a PCI Express x4 slot that can support PCI Express x1 and x4 cards. This ASUS proprietary slot allows you to use additional PCI Express cards for twice the speed of a PCI Express x1 slot. PCI Express x4 slot The Universal PCIe slot supports a total bandwidth of 1GB/s. ASUS A8N-SLI SE 2-17 2.6 Jumpers Clear RTC RAM (CLRRTC) 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. To erase the RTC RAM: 1. 2. 3.

4. 5. 6. Turn OFF the computer and unplug the power cord. Remove the onboard battery.

Move the jumper cap from pins 1-2 (default) to pins 2-3. Keep the cap on pins 2-3 for about 5~10 seconds, then move the cap back to pins 1-2. Re-install the battery. Plug the power cord and turn ON the computer. Hold down the key during the boot process and enter BIOS setup to re-enter data.

Except when clearing the RTC RAM, never remove the cap on CLRRTC jumper default position. Removing the cap will cause system boot failure! CLRRTC A8N-SLI SE 12 23 © Normal (Default) Clear CMOS A8N-SLI SE Clear RTC RAM You do not need to clear the RTC when the system hangs due to overclocking.



[You're reading an excerpt. Click here to read official ASUS A8N-SLI SE user guide](http://yourpdfguides.com/dref/4198161)
<http://yourpdfguides.com/dref/4198161>

For system failure due to overclocking, use the C.P.R. (CPU Parameter Recall) feature. Shut down and reboot the system so the BIOS can automatically reset parameter settings to default values. 2-18 Chapter 2: Hardware information 2.7 2.7.

1 1 Connectors Rear panel connectors 2 3 4 5 6 10 1. 2. 3. 9 8 7 PS/2 mouse port (green). This port is for a PS/2 mouse. Parallel port. This 25-pin port connects a parallel printer, a scanner, or other devices. LAN (RJ-45) port. Supported by the NVIDIA nForce4 Gigabit MAC with external PHY, this port allows Gigabit connection to a Local Area Network (LAN) through a network hub. LAN port LED indications ACT/LINK LED Status OFF GREEN BLINKING Description No link Linked Data activity Status OFF ORANGE GREEN SPEED LED Description 10 Mbps connection 100 Mbps connection 1 Gbps connection ACT/LINK SPEED LED LED LAN port 4.

5. 6. 7. 8. 9.

Line In port (light blue). This port connects the tape, CD, DVD player, or other audio sources. Line Out port (lime). This port connects a headphone or a speaker. In 4-channel, and 6-channel configuration, the function of this port becomes Front Speaker Out.

Microphone port (pink). This port connects a microphone. USB 2.0 ports 3 and 4. These two 4-pin Universal Serial Bus (USB) ports are available for connecting USB 2.0 devices. USB 2.0 ports 1 and 2. These two 4-pin Universal Serial Bus (USB) ports are available for connecting USB 2.0 devices.

Coaxial S/PDIF Out port. This port connects an external audio output device via a coaxial S/PDIF cable. ASUS A8N-SLI SE 2-19 10. PS/2 keyboard port (purple). This port is for a PS/2 keyboard. Refer to the audio configuration table below for the function of the audio ports in 2, 4, or 6-channel configuration.

Audio 2, 4, or 6-channel configuration Port Light Blue Lime Pink Headset 2-channel Line In Line Out Mic In Rear Speaker Out Front Speaker Out Mic In Rear Speaker Out Front Speaker Out Center/Subwoofer 4-channel 6-channel 2-20 Chapter 2: Hardware information 2.7.2 1. Internal connectors Floppy disk drive connector (34-1 pin FLOPPY) This connector is for the provided floppy disk drive (FDD) signal cable.

Insert one end of the cable to this connector, then connect the other end to the signal connector at the back of the floppy disk drive. The Pin 5 on the connector is removed to prevent incorrect cable connection when using an FDD cable with a covered Pin 5. FLOPPY NOTE: Orient the red markings on the floppy ribbon cable to PIN 1. A8N-SLI SE ® PIN 1 A8N-SLI SE Floppy Disk Drive Connector 2. IDE connectors (40-1 pin PRI_IDE, SEC_IDE) These connectors are for Ultra DMA 133/100/66 signal cables.

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). If you install two hard disk drives, you must configure the second drive as a slave device by setting its jumper accordingly. Refer to the hard disk documentation for the jumper settings. · The Pin 20 on the IDE connector is removed to match the covered hole on the Ultra DMA cable connector. This prevents incorrect insertion when you connect the IDE cable.

Use the 80-conductor IDE cable for UltraDMA133/100/66 IDE devices. · SEC_IDE A8N-SLI SE PRI_IDE PIN 1 ® NOTE: Orient the red markings (usually zigzag) on the IDE ribbon cable to PIN 1. A8N-SLI SE IDE Connectors ASUS A8N-SLI SE 2-21 3. Serial ATA connectors (7-pin SATA1, SATA2, SATA3, SATA4) Supported by the NVIDIA® nForce4™ chipset, these connectors are for the Serial ATA signal cables for Serial ATA hard disk drives that allows up to 3Gb/s of data transfer rate. If you installed Serial ATA hard disk drives, you can create a RAID 0, RAID 1, RAID 0+1, or JBOD configuration that span across the Parallel ATA drives. Refer to Chapter 5 for details on how to set up RAID configurations. These connectors are set to SATA by default. In SATA mode, you can connect Serial ATA boot or data hard disk drives to these connectors. If you intent to create a Serial ATA RAID set using these connectors, enable the RAID function of each port from the NVRAID Configuration sub-menu item in the BIOS. See section "4.

4.3 Onboard Devices Configuration" on pages 4-24 and 4-26 for details. GND RSATA_RXN4 RSATA_RXP4 GND RSATA_TXN4 RSATA_TXP4 GND SATA4 A8N-SLI SE ® GND RSATA_RXN3 RSATA_RXP3 GND RSATA_TXN3 RSATA_TXP3 GND SATA3 GND RSATA_RXN2 RSATA_RXP2 GND RSATA_TXN2 RSATA_TXP2 GND GND RSATA_RXN1 RSATA_RXP1 GND RSATA_TXN1 RSATA_TXP1 GND SATA2 SATA1 A8N-SLI SE SATA Connectors · · The actual data transfer rate depends on the speed of Serial ATA hard disks installed. The RAID drivers for Parallel ATA and Serial ATA RAID are not WHQL certified.

2-22 Chapter 2: Hardware information 4. CPU, Chassis, Chipset and Power fan connectors (3-pin CPU_FAN, 3-pin CHA2_FAN, 3-pin CHIP_FAN, 3-pin PWR_FAN, 3-pin CHA1_FAN) The fan connectors support cooling fans of 350mA~2000mA (24 W max.) or a total of 1A~3.48A (41.76 W max.) at +12V. Connect the fan cables to the fan connectors on the motherboard, making sure that the black wire of each cable matches the ground pin of the connector. · Do not forget to connect the fan cables to the fan connectors. Lack of sufficient air flow inside the system may damage the motherboard components. These are not jumpers! DO NOT place jumper caps on the fan connectors! The ASUS Q-Fan2 function is supported using the CPU Fan (CPU_FAN) and Chassis Fan 1 (CHA1_FAN) connectors only. The chipset fan is synchronized with the CPU fan.

GND +12V Rotation · · CPU_FAN CHA2_FAN CHA2_FAN PWR_FAN CHIP_FAN PWR_FAN A8N-SLI SE CHIP_FAN ® CHA1_FAN A8N-SLI SE Fan Connectors CHA1_FAN ASUS A8N-SLI SE GND +12V Rotation CPU_FAN GND +12V Rotation GND +12V Rotation GND +12V Rotation 2-23 5. Serial port connector (10-1 pin COM1) 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. COM1 PIN 1 A8N-SLI SE ® A8N-SLI SE COM Port Connector The com port module is purchased separately . 6.

USB connectors (10-1 pin USB56, USB78, USB910) These connectors are for USB 2.0 ports. Connect the USB/GAME module cable to any of these connectors, then install the module 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. A8N-SLI SE ® USB78 A8N-SLI SE USB 2.0 Connectors 2-24 USB+5V USB_P7USB_P7+ GND Chapter 2: Hardware information USB+5V USB_P5USB_P5+ GND USB+5V USB_P9USB_P9+ GND 1 USB56 1 USB910 1 USB+5V USB_P10USB_P10 + GND NC USB+5V USB_P8USB_P8+ GND NC USB+5V USB_P6USB_P6+ GND NC 7.



[You're reading an excerpt. Click here to read official ASUS A8N-SLI SE user guide](http://yourpdfguides.com/dref/4198161)
<http://yourpdfguides.com/dref/4198161>

ATX power connectors (24-pin EATXPWR1, 4-pin ATX12VI, 4-pin EZ_PLUG) These connectors are for an ATX power supply plugs. The power supply plugs are designed to fit these connectors in only one orientation. Find the proper orientation and push down firmly until the connectors completely fit.

· Do not forget to connect the 4-pin ATX +12 V power plug; otherwise, the system will not boot. If your power connector is 20-pin when you use two graphics cards, do not forget to connect the 4-pin ATX +12 V power plug to the EZ PlugTM; otherwise, the system will be unstable. See page 6-5 for details. Use of a Power Supply Unit (PSU) with a higher power output is recommended when configuring a system with more powerconsuming devices. The system may become unstable or may not boot up if the power is inadequate. Make sure that your PSU can provide at least the minimum power required by your system. See the table below for details. · Power supply requirements Components/Peripherals AMD® K8 939-pin CPU type PCIeTM x16 graphics cards DDR DIMMs HDD Optical drive (DVD/CD-RW) PCIeTM x 1 card PCI cards USB devices Required +12V current Required wattage Heavy Athlon 64 FX-55 6800 Ultra x2 4 4 2 1 3 6 > 25A >= 500W Loading Normal Athlon 64 3800+ 6800GT x2 2 2 2 0 2 4 > 20A >= 400W Light Athlon 64 3400+ 6600GT x2 2 2 1 0 1 3 > 17A >= 350W ATX12V +12V DC GND +12V DC EATXPWR +3 Volts +3 Volts Ground +5 Volts Ground +5 Volts Ground Power OK +5V Standby +12 Volts +12 Volts +3 Volts A8N-SLI SE ® A8N-SLI SE ATX Power ASUS A8N-SLI SE GND +3 Volts -12 Volts Ground PSON# Ground EZ_PLUG Ground Ground +5V -5 Volts EZ_DET GND +5 Volts +12V +5 Volts +5 Volts Connectors Ground 2-25 8. Internal audio connectors (4-pin CD, AUX) These connectors allow you to receive stereo audio input from sound sources such as a CD-ROM, TV-tuner, or MPEG card. CD (black) Left Audio Channel Ground Ground Right Audio Channel AUX (white) A8N-SLI SE Right Audio Channel Ground Ground Left Audio Channel ® A8N-SLI SE Internal Audio Connectors 9.

GAME/MIDI port connector (16-1 pin GAME) This connector is for a GAME/MIDI port. Connect the USB/GAME module cable to this connector, then install the module to a slot opening at the back of the system chassis. The GAME/MIDI port connects a joystick or game pad for playing games, and MIDI devices for playing or editing audio files. A8N-SLI SE ® GAME +5V J1B1 J1CX GND GND J1CY J1B2 +5V A8N-SLI SE Game Connector The Game/MIDI port is purchased separately. 2-26 +5V J2B1 J2CX MIDI_OUT J2CY J2B2 MIDI_IN Chapter 2: Hardware information 10.

Chassis intrusion connector (4-1 pin CHASSIS) This connector is for a chassis-mounted intrusion detection sensor or switch. Connect one end of the chassis intrusion sensor or switch cable to this connector. The chassis intrusion sensor or switch sends a high-level signal to this connector when a chassis component is removed or replaced. The signal is then generated as a chassis intrusion event. By default, the pins labeled "Chassis Signal" and "Ground" are shorted with a jumper cap.

Remove the jumper caps only when you intend to use the chassis intrusion detection feature. A8N-SLI SE ® CHASSIS (Default) A8N-SLI SE Chassis Intrusion Connector 11. Front panel audio connector (10-1 pin FP_AUDIO) This connector is for a chassis-mounted front panel audio I/O module that supports legacy AC 97 audio standard. Connect one end of the front panel audio I/O module cable to this connector. FP_AUDIO BLINE_OUT_L A8N-SLI SE ® BLINE_OUT_R +5VA AGND A8N-SLI SE Front Panel Audio Connector ASUS A8N-SLI SE Chassis Signal GND Line out_L NC Line out_R MICPWR MIC2 +5VSB_MB 2-27 12. System panel connector (20-pin PANEL) This connector supports several chassis-mounted functions. PLED PLED+ SPEAKER +5V Ground Ground Speaker PANEL IDE_LED+ IDE_LED A8N-SLI SE PLED- ® IDE_LED RESET A8N-SLI SE System Panel Connector * Requires an ATX power supply. PWRSW The system panel connector is color-coded for easy connection. Refer to the connector description below for details. · System power LED (Green 3-pin PLED) This 3-pin connector is for the system power LED.

Connect the chassis power LED cable to this connector. The system power LED lights up when you turn on the system power, and blinks when the system is in sleep mode. Hard disk drive activity (Red 2-pin IDE_LED) This 2-pin connector is for the HDD Activity LED. Connect the HDD Activity LED cable to this connector. The IDE LED lights up or flashes when data is read from or written to the HDD. System warning speaker (Orange 4-pin SPEAKER) This 4-pin connector is for the chassis-mounted system warning speaker. The speaker allows you to hear system beeps and warnings. Power/Soft-off button (Yellow 2-pin PWRSW) This connector is for the system power button. Pressing the power button turns the system ON or puts the system in SLEEP or SOFT-OFF mode depending on the BIOS settings. Pressing the power switch for more than four seconds while the system is ON turns the system OFF.

Reset button (Blue 2-pin RESET) This 2-pin connector is for the chassis-mounted reset button for system reboot without turning off the system power. · · · · 2-28 Chapter 2: Hardware information Reset Ground PWR Ground This chapter describes the power up sequence and the ways of shutting down the system. Powering up 3 Chapter summary 3.1 3.2 Starting up for the first time .

.....
.....
.....
.....
.....
.....
.....
.....

.. 3-1 Powering off the computer

.....
.....
.....
.....
.....
.....
.....

... 3-2 ASUS A8N-SLI SE 3.1 1. 2. 3. 4. 5. Starting up for the first time After making all the connections, replace the system case cover.

Be sure that all switches are off. Connect the power cord to the power connector at the back of the system chassis. Connect the power cord to a power outlet that is equipped with a surge protector. Turn on the devices in the following order: a. c. Monitor System power b. External SCSI devices (starting with the last device on the chain) 6. After applying power, the system power LED on the system front panel case lights up. For systems with ATX power supplies, the system LED lights up when you press the ATX power button. If your monitor complies with "green" standards or if it has a "power standby" feature, the monitor LED may light up or switch between orange and green after the system LED turns on. The system then runs the power-on self tests or POST. While the tests are running, the BIOS beeps (see BIOS beep codes table below) or additional messages appear on the screen. If you do not see anything within 30 seconds from the time you turned on the power, the system may have failed a power-on test. Check

*the jumper settings and connections or call your retailer for assistance. 7.
At power on, hold down the <Delete> key to enter the BIOS Setup.*



[You're reading an excerpt. Click here to read official ASUS A8N-SLI SE user guide](#)

<http://yourpdfguides.com/dref/4198161>

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

.. 4-39 Exit menu

.....
.....
.....
.....
.....
.....
.....
.....

.. 4-45 ASUS A8N SLI SE 4.1 Managing and updating your BIOS The following utilities allow you to manage and update the motherboard Basic Input/Output System (BIOS) setup. 1. 2. 3. 4. Award BIOS Flash Utility (Updates the BIOS in DOS mode using a bootable floppy disk.) ASUS CrashFree BIOS 2 (Updates the BIOS using a bootable floppy disk or the motherboard support CD when the BIOS file fails or gets corrupted.)

) ASUS EZ Flash (Updates the BIOS in DOS using a floppy disk or the motherboard support CD.) ASUS Update (Updates the BIOS in Windows® environment.) Refer to the corresponding sections for details on these utilities. Save a copy of the original motherboard BIOS file to a bootable floppy disk in case you need to restore the BIOS in the future. Copy the original motherboard BIOS using the ASUS Update or AwardBIOS Flash utilities.

4.1.1 1. Creating a bootable floppy disk Do either one of the following to create a bootable floppy disk. DOS environment a. Insert a 1.44 MB floppy disk into the drive. b. At the DOS prompt, type format A:/S then press <Enter>. Windows® XP environment a. Insert a 1.44 MB floppy disk to the floppy disk drive. b. Click Start from the Windows® desktop, then select My Computer. c.

Select the 3 1/2 Floppy Drive icon. d. Click File from the menu, then select Format. A Format 3 1/2 Floppy Disk window appears. e. Select Create an MS-DOS startup disk from the format options field, then click Start. Windows® 2000 environment To create a set of boot disks for Windows® 2000: a. Insert a formatted, high density 1.44 MB floppy disk into the drive. ASUS A8N-SLI SE 4-1 b.

Insert the Windows® 2000 CD to the optical drive. c. Click Start, then select Run. d. From the Open field, type D:\bootdisk\makeboot a: assuming that D: is your optical drive.

e. Press <Enter>, then follow screen instructions to continue. 2. Copy the original or the latest motherboard BIOS file to the bootable floppy disk. 4. 1.2 Updating the BIOS The Basic Input/Output System (BIOS) can be updated using the AwardBIOS Flash Utility. Follow these instructions to update the BIOS using this utility. 1. Download the latest BIOS file from the ASUS web site. Rename the file to A8NSLI-B.BIN and save it to a floppy disk. Save only the updated BIOS file in the floppy disk to avoid loading the wrong BIOS file. 2. 3.

4. 5. Copy the AwardBIOS Flash Utility (awdflash.exe) from the Software folder of the support CD to the floppy disk with the latest BIOS file. Boot the system in DOS mode using the bootable floppy disk you created earlier. When the A:> appears, replace the bootable floppy disk with the floppy disk containing the new BIOS file and the Award BIOS Flash Utility. At the prompt, type awdflash then press <Enter>. The Award BIOS Flash Utility screen appears.

AwardBIOS Flash Utility for ASUS V1.01 (C) Phoenix Technologies Ltd.

All Rights Reserved For NF-KC804-A8N-SLI-00 DATE: 11/18/2004 Flash Type - SST 49LF004A/B /3.3V File Name to Program: Message: Please input File Name! 4-2 Chapter 4: BIOS setup 6. Type the BIOS file name in the File Name to Program field, then press <Enter>. AwardBIOS Flash Utility for ASUS V1.01 (C) Phoenix Technologies Ltd.

All Rights Reserved For NF-KC804-A8N-SLI-00 DATE: 11/18/2004 Flash Type - SST 49LF004A/B /3.3V File Name to Program: 1001.bin Message: Do You Want To Save Bios (Y/N) 7. 8. Press <N> when the utility prompts you to save the current BIOS file.

The following screen appears. The utility verifies the BIOS file in the floppy disk and starts flashing the BIOS file. AwardBIOS Flash Utility for ASUS V1.01 (C) Phoenix Technologies Ltd. All Rights Reserved For NF-KC804-A8N-SLI-00 DATE: 11/18/2004 Flash Type - SST 49LF004A/B /3.3V File Name to Program: 1001.bin Program Flashing Memory - OFE00 OK Write OK No Update Write Fail Warning: Don't Turn Off Power Or Reset System! Do not turn off or reset the system during the flashing process! 9. The utility displays a Flashing Complete message indicating that you have successfully flashed the BIOS file. Remove the floppy disk then press <F1> to restart the system. AwardBIOS Flash Utility for ASUS V1.

01 (C) Phoenix Technologies Ltd. All Rights Reserved For NF-KC804-A8N-SLI-00 DATE: 11/18/2004 Flash Type - SST 49LF004A/B /3.3V File Name to Program: 1001.bin Flashing Complete Press <F1> to Continue Write OK F1 Reset No Update Write Fail ASUS A8N-SLI SE 4-3 4.1.3 Saving the current BIOS file You can use the AwardBIOS Flash Utility to save the current BIOS file. You can load the current BIOS file when the BIOS file gets corrupted during the flashing process. Make sure that the floppy disk has enough disk space to save the file. To save the current BIOS file using the AwardBIOS Flash Utility: 1. 2.

Follow steps 1 to 6 of the previous section. Press <Y> when the utility prompts you to save the current BIOS file. The following screen appears. AwardBIOS Flash Utility for ASUS V1.01 (C) Phoenix Technologies Ltd.

All Rights Reserved For NF-KC804-A8N-SLI-00 DATE: 11/18/2004 Flash Type - SST 49LF004A/B /3.3V File Name to Program: 1001.bin Save current BIOS as: Message: 3. Type a filename for the current BIOS file in the Save current BIOS as field, then press <Enter>. AwardBIOS Flash Utility for ASUS V1. 01 (C) Phoenix Technologies Ltd. All Rights Reserved For NF-KC804-A8N-SLI-00 DATE: 11/18/2004 Flash Type - SST 49LF004A/B /3.3V File Name to

Program: 1001.bin Checksum: DAD6H Save current BIOS as: old.bin Message: Please Wait! 4. The utility saves the current BIOS file to the floppy disk, then returns to the BIOS flashing process.



[You're reading an excerpt. Click here to read official ASUS A8N-SLI SE user guide](#)

<http://yourpdfguides.com/dref/4198161>

All Rights Reserved For NF-KC804-A8N-SLI-00 DATE: 11/18/2004 Flash Type - SST 49LF004A/B /3.3V File Name to Program: 1001.bin Now Backup System BIOS to File! Message: Please Wait! 4-4 Chapter 4: BIOS setup 4.1.4 ASUS CrashFree BIOS 2 utility The ASUS CrashFree BIOS 2 is an auto recovery tool that allows you to restore the BIOS file when it fails or gets corrupted during the updating process. @@2. 3. Turn on the system. Insert the motherboard support CD to the optical drive. @@@@BIOS ROM checksum error Detecting IDE ATAPI device.

.. Found CDROM, try to Boot from it...

Pass DO NOT shut down or reset the system while updating the BIOS! @@2. 3. Remove any CD from the optical drive, then turn on the system.

@@@@@@@@BIOS ROM checksum error Detecting IDE ATAPI device..

. Found CDROM, try to Boot from it... @@@@@@The EZ Flash utility is built-in the BIOS chip so it is accessible by pressing <Alt> + <F2> during the Power-On Self Tests (POST). To update the BIOS using EZ Flash: 1. 2. 3. Visit the ASUS website (www.asus.com)

com) to download the latest BIOS file for the motherboard. Save the BIOS file to a floppy disk, then restart the system. Press <Alt> + <F2> during POST to display the following. Insert Disk then press Enter or ESC to continue POST 4. Insert the floppy disk that contains the BIOS file to the floppy disk drive then press <Enter>. The following screen appears. AwardBIOS Flash Utility for ASUS V1.01 (C) Phoenix Technologies Ltd. All Rights Reserved For NF-

KC804-A8N-SLI-00 DATE: 11/18/2004 Flash Type - SST 49LF004A/B /3.3V File Name to Program: Message: Please wait.

.. 5. When the correct BIOS file is found, EZ Flash performs the BIOS update process and automatically reboots the system when done. Do not shutdown or reset the system while updating the BIOS to prevent system boot failure! ASUS A8N-SLI SE 4-7 4.

1.6 ASUS Update utility The ASUS Update is a utility that allows you to manage, save, and update the motherboard BIOS in Windows® environment. The ASUS Update utility allows you to: Save the current BIOS file Download the latest BIOS file from the Internet Update the BIOS from an updated BIOS file Update the BIOS directly from the Internet, and View the BIOS version information. This utility is available in the support CD that comes with the motherboard package. ASUS Update requires an Internet connection either through a network or an Internet Service Provider (ISP).

Installing ASUS Update To install ASUS Update: 1. 2. 3. Place the support CD in the optical drive. The Drivers menu appears. Click the Utilities tab, then click Install ASUS Update VX.XX.XX. See page 5-3 for the Utilities screen menu. The ASUS Update utility is copied to your system.

Quit all Windows® applications before you update the BIOS using this utility. 4-8 Chapter 4: BIOS setup Updating the BIOS through the Internet To update the BIOS through the Internet: 1. @@The ASUS Update main window appears. 2. Select Update BIOS from the Internet option from the drop-down menu, then click Next. 3. Select the ASUS FTP site nearest you to avoid network traffic, or click Auto Select. Click Next. ASUS A8N-SLI SE 4-9 4. @@Click Next. @@@@@@The ASUS Update main window appears. @@4. Locate the BIOS file from the Open window, then click Open. @@@@@@@@@@The LPC chip on the motherboard stores the Setup utility. @@@@@@You can also restart by turning the system off and then back on.

Do this last option only if the first two failed. The Setup program is designed to make it as easy to use as possible. @@@@Select the Load Default Settings item under the Exit Menu. @@@@@@@@@@For example, selecting Main shows the Main menu items. @@To display the sub-menu, select the item and press <Enter>.

4.2.6 Configuration fields These fields show the values for the menu items. If an item is user-configurable, you can change the value of the field opposite the item. You cannot select an item that is not user-configurable. A configurable field is enclosed in brackets, and is highlighted when selected. To change the value of a field, select it then press <Enter> to display a list of options. Refer to "4.2.7 Pop-up window.

" ASUS A8N-SLI SE 4-13 4.2.7 Pop-up window Select a menu item then press <Enter> to display a pop-up window with the configuration options for that item. Main Advanced Power Phoenix-Award BIOS CMOS Setup Utility Boot Exit 15 : 30 : 36 Wed, Nov 5 2004 [1.44M, 3.5 in.] Select Menu Item Specific Help Specifies the capacity and physical size of diskette drive A. System Time System Date Legacy Diskette A: Legacy Diskette A: Primary IDE Master [ST321122A] Primary IDE Slave[ASUS CDS520/A] Secondary IDE Master Disabled [None] ...

.. Secondary IDE Slave 360K , 5.25 in. [None] .

.... 1.

2M , 5.25 in. First SATA Master[None] 720K , 3.5 in. .

.... Second SATA Slave[None] 1.44M, 3.5 in. ...

.. Third SATA Master[None] 2.88M, 3.5 in.

.....

Fourth SATA Slave[None] HDD SMART Monitoring [Disabled] Installed Memory Usable Memory F1:Help ESC: Exit :Move ENTER:Accept 256MB [[[[[[]]]]]] ESC:Abort : Select Item : Select Menu -/+ : Change Value Enter: Select Sub-menu F5: Setup Defaults F10: Save and Exit Pop-up menu 4.2.8 General help At the top right corner of the menu screen is a brief description of the selected item. 4-14 Chapter 4: BIOS setup 4.3 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 "4.2.1 BIOS menu screen" for information on the menu screen items and how to navigate through them. Phoenix-Award BIOS CMOS Setup Utility Boot Exit 15 : 30 : 36 Wed, Nov 5 2004 [1.44M, 3.

5 in.] Select Menu Item Specific Help Change the day, month, year and century. Main Advanced Power System Time System Date Legacy Diskette A: Primary IDE Master [ST321122A] Primary IDE Slave[ASUS CDS520/A] Secondary IDE Master [None] Secondary IDE Slave [None] First SATA Master [None] Second SATA Slave [None] Third SATA Master [None] Fourth SATA Slave [None] HDD SMART Monitoring [Disabled] Installed Memory Usable Memory F1:Help ESC: Exit : Select Item : Select Menu 256MB 503MB -/+ : Change Value Enter: Select Sub-menu F5: Setup Defaults F10: Save and Exit 4.3.1 4.3.2 4.3.3 System Time [xx:xx:xxxx] System Date [Day xx/xx/xxxx] Legacy Diskette A [1.44M, 3.

5 in.] Allows you to set the system time. Allows you to set the system date. Sets the type of floppy drive installed. Configuration options: [Disabled] [360K, 5.25 in.] [1.2M , 5.25 in.] [720K , 3.

5 in.] [1.44M, 3.5 in.] [2.88M, 3.5 in.] ASUS A8N-SLI SE 4-15 4.3.4 Primary and Secondary IDE Master/Slave While entering Setup, the BIOS automatically detects the presence of IDE devices.



[You're reading an excerpt. Click here to read official ASUS A8N-SLI SE user guide](http://yourpdfguides.com/dref/4198161)
<http://yourpdfguides.com/dref/4198161>