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You can read the recommendations in the user guide, the technical guide or the installation guide for ASROCK K8UPGRADE-NF3. You'll find the answers to all your questions on the ASROCK K8UPGRADE-NF3 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual ASROCK K8UPGRADE-NF3**  
**User guide ASROCK K8UPGRADE-NF3**  
**Operating instructions ASROCK K8UPGRADE-NF3**  
**Instructions for use ASROCK K8UPGRADE-NF3**  
**Instruction manual ASROCK K8UPGRADE-NF3**



**ASRock**

***K8Upgrade-NF3***

User Manual

Version 1.1  
Published July 2008  
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**Manual abstract:**

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.. 40 4 1. Introduction Thank you for purchasing ASRock K8Upgrade-NF3 motherboard, a reliable motherboard produced under ASRock's consistently stringent quality control. It delivers excellent performance with robust design conforming to ASRock's commitment to quality and endurance.

In this manual, chapter 1 and 2 contain introduction of the motherboard and step-by-step guide to the hardware installation. Chapter 3 and 4 contain the configuration guide to BIOS setup and information of the Support CD. Because the motherboard specifications and the BIOS software might be updated, the content of this manual will be subject to change without notice. In case any modifications of this manual occur, the updated version will be available on ASRock website without further notice. You may find the latest memory and CPU support lists on ASRock website as well. ASRock website <http://www.asrock.com> 1.1 Package Contents 1 x ASRock K8Upgrade-NF3 Motherboard (ATX Form Factor: 12.0-in x 7.

5-in, 30.5 cm x 19.1 cm) 1 x ASRock K8Upgrade-NF3 Quick Installation Guide 1 x ASRock K8Upgrade-NF3 Support CD 1 x Ultra ATA 66/100/133 IDE Ribbon Cable (80-conductor) 1 x 3.5-in Floppy Drive Ribbon Cable 1 x Serial ATA (SATA) Data Cable (Optional) 1 x Serial ATA (SATA) HDD Power Cable (Optional) 1 x ASRock 8CH I/O Shield 5 1.2 Specifications Platform: CPU: ATX Form Factor: 12.0-in x 7.5-in, 30.5 cm x 19.1 cm 754-Pin Socket Supporting advanced 64-bit AMD AthlonTM 64 and 32-bit / 64-bit Sempron Processors Supports AMD's Cool 'n' QuietTM Technology (see CAUTION 1) Chipsets: Bridge: nVidia nForce3 250 Series Supports Untied Overclocking Technology (see CAUTION 2) Supports USB 2.0, ATA 133, SATA 1. 5Gb/s Memory: 2 x DDR DIMM Slots: DDR1 and DDR2 Support PC3200 (DDR400) / PC2700 (DDR333) / PC2100 (DDR266), Max. 2GB IDE: IDE1: ATA 133 / Ultra DMA Mode 6 IDE2: ATA 133 / Ultra DMA Mode 6 Supports up to 4 IDE Devices Serial ATA: 2 x SATA Connectors Supports up to 2 SATA Devices at 1.5Gb/s Data Transfer Rate (Not Support "Hot Plug" function) Floppy Port: Supports up to 2 Floppy Disk Drives Audio: 7.1 channels AC'97 Audio LAN: Speed: 802.3u (10/100 Ethernet), Supports Wake-On-LAN Hardware Monitor: CPU Temperature Sensing Motherboard Temperature Sensing CPU Overheat Shutdown to Protect CPU Life (ASRock U-COP)(see CAUTION 3) CPU Fan Tachometer Chassis Fan Tachometer Voltage Monitoring: +12V, +5V, +3.

3V, Vcore Future CPU Port: Supports CPU upgrade from AMD 754-Pin CPU to AMD 939-Pin CPU or other future CPU, such as 940-Pin CPU (M2) (see page 13 for details) PCI Slots: 4 x PCI Slots, PCI Specification 2.2 AGP Slot: 1 x AGP Slot Supports 1.5V, 8X / 4X AGP Card (see CAUTION 4) USB 2.0: 8 USB 2.0 Ports: 4 Ready-to-Use USB 2.

0 Ports on the I/O Panel Plus 2 On-Board Headers Supporting 4 Extra USB 2.0 Ports (see CAUTION 5) 6 ASRock 8CH I/O: BIOS: OS: 1 PS/2 Mouse Port, 1 PS/2 Keyboard Port 1 Serial Port: COM1 1 Parallel Port (ECP/EPP Support) 4 Ready-to-Use USB 2.0 Ports 1 RJ-45 Port Audio Jack: Side Speaker / Rear Speaker / Central/Bass / Line In / Front Speaker / Microphone (see CAUTION 6) AMI Legal BIOS Supports "Plug and Play" ACPI 1.1 Compliance Wake Up Events SMBIOS 2.3.1 Support CPU Frequency Stepless Control (only for advanced users' reference, see CAUTION 7) Microsoft® Windows® 98 SE / ME / 2000 / XP compliant CAUTION! 1. For power-saving's sake, it is strongly recommended to enable AMD's Cool 'n' QuietTM technology under Windows system. See APPENDIX on page 40 to enable AMD's Cool 'n' QuietTM technology. 2. This motherboard supports Untied Overclocking Technology.

During overclocking, FSB enjoys better margin due to fixed AGP/PCI buses. In other words, CPU FSB is untied during overclocking, but AGP and PCI buses are in the fixed mode so that FSB can operate under a more stable overclocking 3. environment. While CPU overheat is detected, the system will automatically shutdown. Before you resume the system, please check if the CPU fan on the motherboard functions properly and unplug the power cord, then plug it back again. To improve heat dissipation, remember to spray thermal grease between the CPU and the heatsink when you install the PC system. 4. 5. 6.

Do NOT use a 3.

3V AGP card on the AGP slot of this motherboard! It may cause permanent damage! Power Management for USB 2.0 works fine under Microsoft® Windows® XP SP1 / 2000 SP4. It may not work properly under Microsoft® Windows® 98/ ME. For microphone input, this motherboard supports both stereo and mono modes. For audio output, this motherboard supports 2-channel, 4-channel, 6-channel, and 8-channel modes.

Please check the table on page 9 for proper connection. Although this motherboard offers stepless control, it is not recommended to perform over-clocking.

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Frequencies other than the recommended CPU bus frequencies may cause the instability of the system or damage the CPU. 7. 7 1.

3 Motherboard Layout 1 2 19.1cm (7.5-in) 1 PS2\_USB\_PW1 PS2 Mouse 345 6 7 8 ATXPWR1 ATX12V1 CPU\_FAN1 DDR400 USB 2.0 T: USB2 B: USB3  
DDR1 (64/72 bit, 184-pin module) DDR2 (64/72 bit, 184-pin module) SOCKET 754 1 1 J3 J4 1 J5 J6 J7 J8 31 30 29 28 27 1 1 1 J1 J2  
FUTURE\_CPU\_PORT1 LAN PHY IDE1 1 1 J9 J10 SATA2 SATA1 AGP8X SATA ATA133 USB2.0 J15 7.1CH 1 30.5cm (12.0-in) Super I/O PS2 Keyboard  
PARALLEL PORT Top: REAR SPK USB 2.0 T: USB0 Top: RJ-45 B: USB1 COM1 Bottom: CTR BASS Center: SIDE SPK IDE2 9 Bottom: MIC IN Top: LINE  
IN Center: FRONT IRI 1.5V\_AGP1 10 11 12 PCI 1 26 25 24 23 K8Upgrade-NF3 2Mb BIOS PCI 2 nVidia nForce3 250 Chipset 13 CD1 AUDIO CODEC  
PCI 3 CMOS Battery CLRCMOS2 1 PCI 4 JRI JL1 SPEAKER1 1 GAME1 1 USB45 USB67 1 CHA\_FAN1 1 14 15 PLED PWRBTN AUDIO1 1 FLOPPY1 1  
PANEL 1 HDLED RESET 22 21 20 19 18 17 16 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 PS2\_USB\_PW1 Jumper ATX 12V Power Connector (ATX12V1) ATX  
Power Connector (ATXPWR1) 754-Pin CPU Socket CPU Heatsink Retention Module CPU Fan Connector (CPU\_FAN1) 184-pin DDR DIMM Slots (DDR1-  
2) Secondary IDE Connector (IDE2, Black) Primary IDE Connector (IDE1, Blue) Primary Serial ATA Connector (SATA1) Secondary Serial ATA Connector  
(SATA2) AGP Slot (1).

5V\_AGP1) nVidia Chipset Clear CMOS Jumper (CLRCMOS2) Chassis Speaker Header (SPEAKER 1) System Panel Header (PANEL1) 17 18 19 20 21 22 23  
24 25 26 27 28 29 30 31 Chassis Fan Connector (CHA\_FAN1) USB 2.0 Header (USB67, Blue) USB 2.0 Header (USB45, Blue) Floppy Connector  
(FLOPPY1) Game Port Header (GAME1) Front Panel Audio Header (AUDIO1) JRI JL1 Jumper PCI Slots (PCI1- 4) Internal Audio Connector: CD1  
(Black) Flash Memory Infrared Module Header (IR1) J15 Jumper J9 / J10 Jumper Future CPU Port (FUTURE\_CPU\_PORT1) J1-J8 Jumpers 8 1.4 ASRock  
8CH I/O 1 2 3 4 5 13 12 11 entation. Step 3. Firmly insert the DIMM into the slot until the retaining clips at both ends fully snap back in place and the DIMM  
is properly seated. 12 2.4 Expansion Slots (Future CPU Port, PCI Slots and AGP Slot) There are 1 Future CPU Port, 4 PCI slots and 1 AGP slot on  
K8Upgrade-NF3 motherboard. Future CPU Port (Yellow-Colored Port): Future CPU Port allows you to upgrade your AMD 754-Pin CPU to AMD 939-Pin  
CPU by installing an add-on ASRock 939CPU Board into this future CPU Port on K8UpgradeNF3 motherboard. You may also install ASRock M2CPU Board  
into this future CPU Port on this motherboard to upgrade your AMD 754-Pin CPU to AMD 940-Pin (M2) CPU in the future.

Before you upgrade the 754-Pin CPU to the 939-Pin CPU / 940-Pin (M2) CPU, it is necessary to adjust the jumper settings for those required jumpers on  
K8Upgrade-NF3 motherboard. Please refer to the table below for the correct jumper settings. This yellow-colored Future CPU Port is not an AGP slot!  
Please do NOT insert any AGP card into it! CPU Type 3 2 3 2 Jumper Settings 3 3 2 3 2 J3 3 2 J4 3 2 2 J5 J2 J6 J7 J8 754-Pin CPU (Default) J1 1\_2 J9  
I\_2 J10 2\_3 J15 939-Pin CPU (Using add-on ASRock 939CPU Board) 2 1 2 1 J3 2 1 J4 2 1 2 1 2 1 2 1 J5 J2 J6 J7 J8 / 940-Pin (M2) CPU (Using add-on  
ASRock M2CPU Board) J1 2\_3 J9 2\_3 J10 1\_2 J15 13 NOTE When adjusting the jumper settings, you may use the tool, Jumper Cap Remover, to help you  
removing the jumper caps more easily. This Jumper Cap Remover is bundled in your motherboard package, and please follow the "Jumper Cap Remover  
Instruction" to use it properly. PCI Slots: PCI slots are used to install expansion cards that have the 32-bit PCI interface.

AGP slot: The AGP slot is used to install a graphics card. The ASRock AGP slot has a special design of clasp that can securely fasten the inserted graphics  
card. Please do NOT use a 3.3V AGP card on the AGP slot of this motherboard! It may cause permanent damage! For the voltage information of your AGP  
card, please check with the AGP card vendors. Installing an expansion card Step 1.

Before installing the expansion card, please make sure that the power supply is switched off or the power cord is unplugged. Please read the documentation of  
the expansion card and make necessary hardware settings for the card before you start the installation. Remove the system unit cover (if your motherboard is  
already installed in a chassis). Remove the bracket facing the slot that you intend to use. Keep the screws for later use. Align the card connector with the slot  
and press firmly until the card is completely seated on the slot. Fasten the card to the chassis with screws. Replace the system cover. Step 2. Step 3.

Step 4. Step 5. Step 6. 14 2.5 Jumpers Setup The illustration shows how jumpers are setup. When the jumper cap is placed on pins, the jumper is "Short". If no  
jumper cap is placed on pins, the jumper is "Open". The illustration shows a 3-pin jumper whose pin1 and pin2 are "Short" when jumper cap is placed on  
these 2 pins. Jumper PS2\_USB\_PW1 (see p.8, No.

1) Setting 1\_2 2\_3 Short pin2, pin3 to enable +5VSB (standby) for PS/2 or +5V +5VSB USB wake up events. Note: To select +5VSB, it requires 2 Amp and  
higher standby current provided by power supply. JRI JL1 Jumper (see p.8, No. 23) JL1 JRI Note: If the jumpers JL1 and JRI are short, both the front panel  
and the rear panel audio connectors can work.

Clear CMOS Jumper (CLRCMOS2) (see p.8, No. 14) 1\_2 2\_3 Default Clear CMOS Note: CLRCMOS2 allows you to clear the data in CMOS. The data in  
CMOS includes system setup information such as system password, date, time, and system setup parameters. To clear and reset the system parameters to  
default setup, please turn off the computer and unplug the power cord from the power supply.

After waiting for 15 seconds, use a jumper cap to short pin2 and pin3 on CLRCMOS2 for 5 seconds. However, please do not clear the CMOS right after you  
update the BIOS. If you need to clear the CMOS when you just finish updating the BIOS, you must boot up the system first, and then shut it down before you  
do the clear-CMOS action. 15 2.6 Onboard Headers and Connectors Onboard headers and connectors are NOT jumpers. Do NOT place jumper caps over  
these headers and connectors. Placing jumper caps over the headers and connectors will cause permanent damage of the motherboard! · Floppy Connector  
(33-pin FLOPPY1) (see p.8 No. 20) Pin1 FLOPPY1 the red-striped side to Pin1 Note: Make sure the red-striped side of the cable is plugged into Pin1 side of  
the connector. Primary IDE Connector (Blue) (39-pin IDE1, see p.



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8 No. 9) Secondary IDE Connector (Black) (39-pin IDE2, see p.8 No. 8) PIN1 IDE1 PIN1 IDE2 connect the blue end to the motherboard connect the black end to the IDE devices 80-conductor ATA 66/100/133 cable Note: If you use only one IDE device on this motherboard, please set the IDE device as "Master". Please refer to the instruction of your IDE device vendor for the details. Besides, to optimize compatibility and performance, please connect your hard disk drive to the primary IDE connector (IDE1, blue) and CD-ROM to the secondary IDE connector (IDE2, black). Serial ATA Connectors (SATA1: see p.8 No. 10) (SATA2: see p.8 No.

11) SATA2 SATA1 These two Serial ATA (SATA) connectors support SATA data cables for internal storage devices. The current SATA interface allows up to 1.5 Gb/s data transfer rate. Either end of the SATA data cable can be connected to the SATA hard disk or the SATA connector on the motherboard. Serial ATA (SATA) Data Cable 16 Serial ATA (SATA) Power Cable (Optional) connect to the SATA HDD power connector connect to the power supply Please connect the black end of SATA power cable to the power connector on each drive.

Then connect the white end of SATA power cable to the power connector of the power supply. ASRock 8CH I/O accommodates 4 default USB 2.0 ports. If those USB 2.0 ports on the I/O panel are not sufficient, this USB 2.0 header is available to support 2 additional USB 2.0 ports. ASRock 8CH I/O accommodates 4 default USB 2.0 ports. If those USB 2.0 ports on the I/O panel are not sufficient, this USB 2.0 header is available to support 2 additional USB 2.0 ports. This header supports an optional wireless transmitting and receiving infrared module. This connector allows you to receive stereo audio input from sound sources such as a CD-ROM, DVD-ROM, TV tuner card, or MPEG card.

This is an interface for front panel audio cable that allows convenient connection and control of audio devices. USB 2.0 Header (9-pin USB67) (see p.8 No. 18) 1 GND P+6 P-6 USB\_PWR USB\_PWR P-7 P+7 GND DUMMY USB 2.0 Header (9-pin USB45) (see p.8 No. 19) 1 GND P+4 P-4 USB\_PWR USB\_PWR P-5 P+5 GND DUMMY Infrared Module Header (5-pin IRI) (see p.8 No. 27) 1 IRTX +5VSB DUMMY GND IRRX Internal Audio Connectors (4-pin CD1) (CD1: see p.

8 No. 26) CD-R GND GND CD-L CD1 Front Panel Audio Header (9-pin AUDIO1) (see p.8 No. 22) 1 GND +5VA BACKOUT-R BACKOUT-L AUD-OUT-L DUMMY AUD-OUT-R MIC-POWER MIC 17 System Panel Header (9-pin PANEL1) (see p.8 No.

16) 1 PLED+ PLEDPWRBTN# GND This header accommodates several system front panel functions. DUMMY RESET# GND HDLEDHDL+ Chassis Speaker Header (4-pin SPEAKER 1) (see p.8 No. 15) 1 SPEAKER DUMMY DUMMY +5V Please connect the chassis speaker to this header. Chassis Fan Connector (3-pin CHA\_FAN1) (see p.

8 No. 17) GND +12V CHA\_FAN\_SPEED Please connect a chassis fan cable to this connector and match the black wire to the ground pin. Please connect the CPU fan cable to this connector and match the black wire to the ground pin. @@@@3) ATX 12V Power Connector (4-pin ATX12V1) (see p.8 No. @@@@) This section will guide you to install the SATA hard disks. @STEP 2: Connect the SATA power cable to the SATA hard disk. @@@STEP 1: Make a SATA Driver Diskette. A. @B.

@Please select CDROM as the boot device. C. @D. @WARNING! Formatting the floppy diskette will lose ALL data in it! Start to format and copy files [Y/N]? @E. @STEP 2: Set Up BIOS. A. Enter BIOS SETUP UTILITY Advanced screen IDE Configuration. B.

@@@@@@ Besides, there is no need for you to change the BIOS setting. You can start to install Windows 2000, Windows XP or Windows XP 64-bit on your system directly.

Windows Windows SAT 2.11 Installing Windows 98 SE / Windows ME on SATA HDD If you want to install Windows 98 SE / Windows ME on SATA HDD, it must be installed on SATA 1 in order to finish the OS installation process. After finishing the installation of Windows 98 SE / Windows ME, please install Windows SE 98 / Windows ME registry patch file provided in the support CD, which is located in the folder at the following patch: .. \Nvidia SATA patch for Win98/ME Then the SATA HDD can be used in SATA 1 or SATA 2 port.

Windows 98 SE / Windows ME does not support RAID function. 21 3. BIOS SETUP UTILITY 3.1 Introduction This section explains how to use the BIOS SETUP UTILITY to configure your system. The Flash Memory on the motherboard stores the BIOS SETUP UTILITY.

You may run the BIOS SETUP UTILITY when you start up the computer. Please press <F2> during the Power-On-Self-Test (POST) to enter the BIOS SETUP UTILITY, otherwise, POST will continue with its test routines. If you wish to enter the BIOS SETUP UTILITY after POST, restart the system by pressing <Ctl> + <Alt> + <Delete>, or by pressing the reset button on the system chassis. You may also restart by turning the system off and then back on. Because the BIOS software is constantly being updated, the following BIOS setup screens and descriptions are for reference purpose only, and they may not exactly match what you see on your screen. 3.1.1 BIOS Menu Bar The top of the Main Advanced H/W Monitor Boot screen has a menu bar with the following selections: To set up the system time/date information To set up the advanced BIOS features To display current hardware status To set up the default system device to locate and load the Operating System Security To set up the security features Exit To exit the current screen or the BIOS SETUP UTILITY Use < > key or < > key to choose among the selections on the menu bar, and then press <Enter> to get into the sub screen. 22 3.1.

2 Navigation Keys Please check the following table for the function description of each navigation key. Navigation Key(s) // +/<Enter> <F1> <F9> <F10> <ESC> Function Description Moves cursor left or right to select Screens Moves cursor up or down to select items To change option for the selected items To bring up the selected screen To display the General Help Screen To load optimal default values for all the settings To save changes and exit the BIOS SETUP UTILITY To jump to the Exit Screen or exit the current screen 3.2 Main Screen When you enter the BIOS SETUP UTILITY, the Main screen will appear and display the system overview. BIOS SETUP UTILITY H/W Monitor Boot Main Advanced Security Exit System Overview System Time System Date : BIOS Version : Processor Type Processor Speed : Microcode Update : : L1 Cache Size : L2 Cache Size Total Memory DDR 1 DDR 2 [17:00:09] [Tue 05/31/2005] K8Upgrade-NF3 BIOS P1.0 AMD Athlon(tm) 64 Processor 3400+ 2200 MHz F7A/3A 128KB 1024KB Use [Enter], [TAB] or [SHIFT-TAB] to select a field. Use [+] or [-] to configure system Time. : 256MB : 256MB/166MHz (DDR333) : None +Tab F1 F9 F10 ESC Select Screen Select Item Change Field Select Field General Help Load Defaults Save and Exit Exit v02.



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54 (C) Copyright 1985-2003, American Megatrends, Inc. System Time [Hour:Minute:Second] Use this item to specify the system time. System Date [Day Month/Date/Year] Use this item to specify the system date.

23 If ASRock 939CPU Board is installed into the FUTURE\_CPU\_PORT on this motherboard, you will see the below Main screen when entering the BIOS SETUP UTILITY. BIOS SETUP UTILITY H/W Monitor Boot Main Advanced Security Exit System Overview System Time System Date BIOS Version Processor Type Processor Speed Microcode Update L1 Cache Size L2 Cache Size Total Memory DDR DDR DDR DDR 1 2 3 4 (K8\_939) (K8\_939) (K8\_939) (K8\_939) : : : : : [17:00:09] [Tue 05/31/2005] K8Upgrade-NF3 BIOS P1.0 AMD Athlon(tm) 64 Processor 3400+ 2200 MHz F7A/3A 128KB 1024KB Use [Enter], [TAB] or [SHIFT-TAB] to select a field. Use [+] or [-] to configure system Time. : 256MB Single-Channel Memory Mode : 256MB/166MHz (DDR333) : None : None : None +Tab F1 F9 F10 ESC Select Screen Select Item Change Field Select Field General Help Load Defaults Save and Exit Exit v02.

54 (C) Copyright 1985-2003, American Megatrends, Inc. If ASRock M2CPU Board is installed into the FUTURE\_CPU\_PORT on this motherboard, you will see the below Main screen when entering the BIOS SETUP UTILITY. BIOS SETUP UTILITY H/W Monitor Boot Main Advanced Security Exit System Overview System Time System Date BIOS Version Processor Type Processor Speed Microcode Update L1 Cache Size L2 Cache Size Total Memory DDR DDR DDR DDR 1 2 3 4 (K8\_940) (K8\_940) (K8\_940) (K8\_940) : : : : : [17:00:09] [Tue 05/31/2005] K8Upgrade-NF3 BIOS P1.0 AMD Athlon(tm) 64 Processor 3400+ 2200 MHz F7A/3A 128KB 1024KB Use [Enter], [TAB] or [SHIFT-TAB] to select a field. Use [+] or [-] to configure system Time. : 256MB Single-Channel Memory Mode : 256MB/166MHz (DDR333) : None : None : None +Tab F1 F9 F10 ESC Select Screen Select Item Change Field Select Field General Help Load Defaults Save and Exit Exit v02.54 (C) Copyright 1985-2003, American

24 3.3 Advanced Screen In this section, you may set the configurations for the following items: CPU Configuration, Chipset Configuration, ACPI Configuration, IDE Configuration, PCIPnP Configuration, Floppy Configuration, SuperIO Configuration, and USB Configuration. BIOS SETUP UTILITY H/W Monitor Boot Main Advanced Security Exit Advanced Settings WARNING : Setting wrong values in below sections may cause system to malfunction. CPU Configuration Chipset Configuration ACPI Configuration IDE Configuration PCIPnP Configuration Floppy Configuration SuperIO Configuration USB Configuration Options for CPU Enter F1 F9 F10 ESC Select Screen Select Item Go to Sub Screen General Help Load Defaults Save and Exit Exit v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. Setting wrong values in this section may cause the system to malfunction. 25 3.3.

1 CPU Configuration BIOS SETUP UTILITY Advanced CPU Configuration Overclock Mode CPU Frequency (MHz) AGP Frequency (MHz) Boot Failure Guard Spread Spectrum Cool 'n' Quiet Processor Maximum Multiplier Processor Maximum Voltage Multiplier/Voltage Change Memory Clock Flexibility Option Burst Length CAS Latency (CL) TRCD TRAS TRP [Auto] [200] [66] [Enabled] [Auto] [Enabled] x11 1.550 V [Auto] [Auto] [Disabled] [8 Beats] [Auto] [Auto] [Auto] [Auto] Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit If AUTO, multiplier and voltage will be left at the rated frequency/voltage. If Manual, multiplier and voltage will be set based on User Selection in Setup. +F1 F9 F10 ESC v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. BIOS SETUP UTILITY Overclock Mode Use this to select Overclock Mode. The default value is [Auto]. Cnfiguration options: [Auto], [CPU, AGP, Sync.] and [CPU, AGP, Async.].

CPU Frequency (MHz) Use this option to adjust CPU frequency. The range is from 140MHz to 300MHz. The default value is [200]. AGP Frequency (MHz) Use this option to adjust PCIE frequency. The range is from 50MHz to 100MHz.

The default value is [66]. Boot Failure Guard Enable or disable the feature of Boot Failure Guard. Spread Spectrum This feature will be set to [Auto] as default. Cool 'n' Quiet Use this item to enable or disable AMD's Cool 'n' QuietTM technology. Processor Maximum Multiplier It will display Processor Maximum Multiplier for reference.

Processor Maximum Voltage It will display Processor Maximum Voltage for reference. Multiplier/Voltage Change This item is set to [Auto] by default. If it is set to [Manual], you may adjust the value of Processor Multiplier and Processor Voltage. However, it is recommended to keep the default value for system stability. 26 BIOS SETUP UTILITY Advanced CPU Configuration Overclock Mode CPU Frequency (MHz) AGP Frequency (MHz) Boot Failure Guard Spread Spectrum Cool 'n' Quiet Processor Maximum Multiplier Processor Maximum Voltage Multiplier/Voltage Change Processor Multiplier Processor Voltage Memory Clock Flexibility Option Burst Length CAS Latency (CL) TRCD [Auto] [200] [66] [Enabled] [Auto] [Enabled] x11 1.550 V [Manual] [x8] [1.500V] [Auto] [Disabled] [8 Beats] [Auto] [Auto] +F1 F9 F10 ESC Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit If AUTO, multiplier and voltage will be left at the rated frequency/voltage. If Manual, multiplier and voltage will be set based on User Selection in Setup. v02.54 (C) Copyright 1985-2003, American Megatrends, Inc.

BIOS SETUP UTILITY Processor Multiplier This item will show when "Multiplier/Voltage Change" is set to [Manual]; otherwise, it will be hidden. You may set the value from [x8] up to [x25] but no higher than the value of "Processor Maximum Multiplier". For example, if the value of "Processor Maximum Multiplier" is [x11], the actual value of multiplier will be [x11] even if you set this item to a value higher than [x11]. However, for system stability, it is not recommended to adjust the value of this item. Processor Voltage This item will show when "Multiplier/Voltage Change" is set to [Manual]; otherwise, it will be hidden. You may set the value from [1.550V] down to [0.800V]. However, for safety and system stability, it is not recommended to adjust the value of this item. Memory Clock This item can be set by the code using [Auto].

You can set one of the standard values as listed: [133 MHz (DDR266)], [166 MHz (DDR333)], [200 MHz (DDR400)]. Flexibility Option The default value of this option is [Disabled]. It will allow better tolerance for memory compatibility when it is set to [Enabled]. Burst Length Burst length can be set to 8 or 4 beats. 64 Bit Dq must use the 4 beats.

CAS Latency (CL) Use this item to adjust the means of memory accessing. Configuration options: [Auto], [2.0], [3.0], and [2.5].

The default value is [Auto]. TRCD Use this to adjust TRCD values. Configuration options: [Auto], [2CLK], [3CLK], [4CLK], [5CLK], and [6CLK].



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The default value is [Auto]. 27 TRAS Use this to adjust TRAS values. Configuration options: [Auto], [5CLK], [6CLK], [7CLK], [8CLK], [9CLK], [10CLK], [11CLK], [12CLK], [13CLK], [14CLK], and [15CLK]. The default value is [Auto]. TRP Use this to adjust TRP values. Configuration options: [Auto], [2CLK], [3CLK], [4CLK], [5CLK], and [6CLK]. The default value is [Auto].

MA Timing Use this to adjust values for MA timing. Configuration options: [Auto], [2T], [1T]. The default value is [Auto]. 3.3.2 Chipset Configuration BIOS SETUP UTILITY Advanced Chipset Settings OnBoard AC97 Audio OnBoard LAN AGP Data Rate AGP Aperture Size AGP Fast Write AGP SideBand Address Primary Graphics Adapter HT Width HT Speed DRAM Voltage AGP Voltage [Auto] [Enabled] [4X] [64MB] [Disabled] [Enabled] [PCI] [Auto] [Auto] [Auto] [Auto] Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit Enable/Disable onboard Audio device. +F1 F9 F10 ESC v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. OnBoard AC97 Audio Select [Auto] or [Disabled] for the onboard AC97 Audio feature. OnBoard LAN This allows you to enable or disable the onboard LAN feature.

AGP Data Rate Use this item to adjust the AGP Data Rate. Configuration options: [4X], [2X], [1X]. AGP Aperture Size It refers to a section of the PCI memory address range used for graphics memory. It is recommended to leave this field at the default value unless the installed AGP card's specifications requires other sizes. Configuration options: [32MB], [64MB], [128MB], [256MB], and [512MB].

AGP Fast Write This allows you to enable or disable the feature of AGP fast write protocol support. AGP SideBand Address This allows you to enable or disable the feature of AGP SideBand Address. Configuration options: [Enabled], and [Disabled]. 28 Primary Graphics Adapter This item will switch the PCI Bus scanning order while searching for video card. It allows you to select the type of Primary VGA in case of multiple video controllers.

The default value of this feature is [PCI]. Configuration options: [PCI] and [AGP]. HT Width You may set the HyperTransport width as [8 Bit], [16 Bit], or [Auto]. The default value is [Auto]. HT Speed You may set the HyperTransport speed as [Auto], [200 MHz], [400 MHz], [600 MHz], [800 MHz], or [1000 MHz]. The default value is [Auto]. DRAM Voltage Use this to select DRAM voltage. Configuration options: [Auto], [Ultra High], [High], [Normal], and [Low]. The default value is [Auto]. AGP Voltage Use this to select among [Normal] and [High] for AGP Voltage.

The default value is [High]. 3.3.3 ACPI Configuration BIOS SETUP UTILITY Advanced ACPI Settings Suspend To RAM Repost Video on STR Resume Restore on AC / Power Loss Ring-In Power On PCI Devices Power On PS / 2 Keyboard Power On RTC Alarm Power On [Auto] [No] [Power Off] [Disabled] [Disabled] [Disabled] [Disabled] Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit Select auto-detect or disable the STR feature. +F1 F9 F10 ESC v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. Suspend to RAM Use this item to select whether to auto-detect or disable the Suspend-toRAM feature. Select [Auto] will enable this feature if the OS supports it. If you set this item to [Disabled], the function "Repost Video on STR Resume" will be hidden. Repost Video on STR Resume This feature allows you to repost video on STR resume.

It is recommended to enable this feature under Microsoft Windows 98 / ME. (STR refers to suspend to RAM.) Restore on AC/Power Loss This allows you to set the power state after an unexpected AC/power 29 loss. If [Power Off] is selected, the AC/power remains off when the power recovers. If [Power On] is selected, the AC/power resumes and the system starts to boot up when the power recovers.

Ring-In Power On Use this item to enable or disable Ring-In signals to turn on the system from the power-soft-off mode. PCI Devices Power On Use this item to enable or disable PCI devices to turn on the system from the power-soft-off mode. PS/2 Keyboard Power On Use this item to enable or disable PS/2 keyboard to turn on the system from the power-soft-off mode. RTC Alarm Power On Use this item to enable or disable RTC (Real Time Clock) to power on the system. 3.

3.4 IDE Configuration BIOS SETUP UTILITY Advanced IDE Configuration OnBoard IDE Controller OnBoard SATA Controller SATA Operation Mode Primary IDE Master Primary IDE Slave Secondary IDE Master Secondary IDE Slave SATA1 SATA2 [Both] [Enabled] [RAID] [Hard Disk] [Not Detected] [ATAPI CDROM] [Not Detected] [Not Detected] [Not Detected] DISABLED: disables the integrated IDE Controller. PRIMARY: enables only the Primary IDE Controller. SECONDARY: enables only the Secondary IDE Controller. BOTH: enables both IDE Controllers. Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit +F1 F9 F10 ESC v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. OnBoard IDE Controller You may enable either the primary IDE channel or the secondary IDE channel. Or you may enable both the primary and the secondary IDE channels by selecting [Both]. Set to [Disabled] will disable the both.

Configuration options: [Disabled], [Primary], [Secondary], [Both]. OnBoard SATA Controller Use this item to enable or disable the "OnBoard SATA Controller" feature. SATA Operation Mode Use this item to adjust SATA Operation Mode. The default value of this option is [non-RAID]. If you want to operate RAID function on SATA HDDs, please select [RAID]. IDE Device Configuration You may set the IDE configuration for the device that you specify.

We will use the "Primary IDE Master" as the example in the following instruction, which can be applied to the configurations of "Primary IDE Slave", "Secondary IDE Master", and "Secondary IDE Slave" as well. 30 BIOS SETUP UTILITY Advanced Primary IDE Master Device Vendor Size LBA Mode Block Mode PIO Mode Async DMA Ultra DMA S.M.A.

R.T. :Hard Disk :MAXTOR 6L080J4 :80.0 GB :Supported :16Sectors :4 :MultiWord DMA-2 :Ultra DMA-6 :Supported [Auto] [Auto] [Auto] [Auto] [Auto] [Disabled] [Disabled] Select the type of device connected to the system. Type LBA/Large Mode Block (Multi-Sector Transfer) PIO Mode DMA Mode S.

M.A.R.T. 32Bit Data Transfer +F1 F9 F10 ESC Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit v02.

54 (C) Copyright 1985-2003, American Megatrends, Inc. TYPE Use this item to configure the type of the IDE device that you specify. Configuration options: [Not Installed], [Auto], [CD/DVD], and [ARMD]. [Not Installed]: Select [Not Installed] to disable the use of IDE device. [Auto]: Select [Auto] to automatically detect the hard disk drive. After selecting the hard disk information into BIOS, use a disk utility, such as FDISK, to partition and format the new IDE hard disk drives. This is necessary so that you can write or read data from the hard disk. Make sure to set the partition of the Primary IDE hard disk drives to active.



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[CD/DVD]: This is used for IDE CD/DVD drives. [ARMD]: This is used for IDE ARMD (ATAPI Removable Media Device), such as MO.

**LBA/Large Mode** Use this item to select the LBA/Large mode for a hard disk > 512 MB under DOS and Windows; for Netware and UNIX user, select [Disabled] to disable the LBA/Large mode. **Block (Multi-Sector Transfer)** The default value of this item is [Auto]. If this feature is enabled, it will enhance hard disk performance by reading or writing more data during each transfer. **PIO Mode** Use this item to set the PIO mode to enhance hard disk performance by optimizing the hard disk timing. **DMA Mode** DMA capability allows the improved transfer-speed and data-integrity for compatible IDE devices. 31 S.M.A.R.T.

Use this item to enable or disable the S.M.A.R.T.

(Self-Monitoring, Analysis, and Reporting Technology) feature. Configuration options: [Disabled], [Auto], [Enabled]. **32-Bit Data Transfer** Use this item to enable 32-bit access to maximize the IDE hard disk data transfer rate. 3.3.

**5 PCIPnP Configuration BIOS SETUP UTILITY Advanced Advanced PCI / PnP Settings** WARNING: Setting wrong values in below sections may cause system to malfunction. **PCI Latency Timer** PCI IDE BusMaster [64] [Enabled] Value in units of PCI clocks for PCI device latency timer register. +F1 F9 F10 ESC Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. Setting wrong values in this section may cause the system to malfunction. **PCI Latency Timer** The default value is 32. It is recommended to keep the default value unless the installed PCI expansion cards' specifications require other settings. **PCI IDE BusMaster** Use this item to enable or disable the PCI IDE BusMaster feature. 32 3.3.

**6 Floppy Configuration** In this section, you may configure the type of your floppy drive. **BIOS SETUP UTILITY Advanced Floppy Configuration Floppy A Floppy B [1.44 MB 3 1/2"]** [Disabled] Select the type of floppy drive connected to the system. +F1 F9 F10 ESC Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. 3.3.7 **Super IO Configuration BIOS SETUP UTILITY Advanced Configure Super IO Chipset OnBoard Floppy Controller Serial Port Address Infrared Port Address Parallel Port Address Parallel Port Mode EPP Version ECP Mode DMA Channel Parallel Port IRQ OnBoard Game Port OnBoard MIDI Port** [Enabled] [3F8 / IRQ4] [Disabled] [378] [ECP + EPP] [1.9] [DMA3] [IRQ7] [Enabled] [Disabled] Allow BIOS to Enable or Disable Floppy Controller. +F1 F9 F10 ESC Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit v02.

54 (C) Copyright 1985-2003, American Megatrends, Inc. **OnBoard Floppy Controller** Use this item to enable or disable floppy drive controller. **Serial Port Address** Use this item to set the address for the onboard serial port or disable it. Configuration options: [Disabled], [3F8 / IRQ4], [2F8 / IRQ3], [3E8 / IRQ4], [2E8 / IRQ3]. **Infrared Port Address** Use this item to set the address for the onboard infrared port or disable it. Configuration options: [Disabled], [2F8 / IRQ3], and [2E8 / IRQ3]. **33 Parallel Port Address** Use this item to set the address for the onboard parallel port or disable it. Configuration options: [Disabled], [378], and [278]. **Parallel Port Mode** Use this item to set the operation mode of the parallel port. The default value is [ECP+EPP].

If this option is set to [ECP+EPP], it will show the EPP version in the following item, "EPP Version". Configuration options: [Normal], [Bi-Directional], and [ECP+EPP]. **EPP Version** Use this item to set the EPP version. Configuration options: [1.9] and [1.7]. **ECP Mode DMA Channel** Use this item to set the ECP mode DMA channel. Configuration options: [DMA0], [DMA1], and [DMA3]. **Parallel Port IRQ** Use this item to set the IRQ for the parallel port. Configuration options: [IRQ5] and [IRQ7].

**OnBoard Game Port** Use this item to enable the Game Port or disable it. **OnBoard MIDI Port** Use this item to select the address for the MIDI Port or disable it. @@@@etc. **@@Boot Up Num-Lock** If this item is set to [On], it will automatically activate the Numeric Lock function after boot-up. 36 **3.6 Security Screen** In this section, you may set or change the supervisor/user password for the system. For the user password, you may also clear it. **BIOS SETUP UTILITY H/W Monitor Boot Main Advanced Security Exit Security Settings Supervisor Password User Password : Not Installed : Not Installed Install or Change the password. Change Supervisor Password Change User Password Clear User Password Enter F1 F9 F10 ESC Select Screen Select Item Change General Help Load Defaults Save and Exit Exit v02.54 (C) Copyright 1985-2003, American Megatrends, Inc.**

**37 3.7 Exit Screen Main Exit Options Save Changes and Exit Discard Changes and Exit Discard Changes Load Optimal Defaults Advanced BIOS SETUP UTILITY H/W Monitor Boot Security Exit** system setup after saving the changes. Exit F10 key can be used for this operation. Enter F1 F9 F10 ESC Select Screen Select Item Go to Sub Screen General Help Load Defaults Save and Exit Exit v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. **Save Changes and Exit** When you select this option, it will pop-out the following message, "Save configuration changes and exit setup?" Select [OK] to save the changes and exit the BIOS SETUP UTILITY. **Discard Changes and Exit** When you select this option, it will pop-out the following message, "Discard changes and exit setup?" Select [OK] to exit the BIOS SETUP UTILITY without saving any changes. **Discard Changes** When you select this option, it will pop-out the following message, "Discard changes?" Select [OK] to discard all changes. **Load Optimal Defaults** When you select this option, it will pop-out the following message, "Load optimal defaults?" Select [OK] to load the default values for all the setup configurations. 38 Support 4.

**Software Support 4.1 Install Operating System** This motherboard supports various Microsoft® Windows® operating systems: 98 SE / ME / 2000 / XP.

Because motherboard settings and hardware options vary, use the setup procedures in this chapter for general reference only. Refer to your OS documentation for more information. **4.2 Support CD Information** The Support CD that came with the motherboard contains necessary drivers and useful utilities that enhance the motherboard features. **4.2.1 Running The Support CD** To begin using the support CD, insert the CD into your CD-ROM drive. The CD automatically displays the Main Menu if "AUTORUN" is enabled in your computer.

If the Main Menu did not appear automatically, locate and double click on the file "ASSETUP.EXE" from the BIN folder in the Support CD to display the menus. **4.2.2 Drivers Menu** The Drivers Menu shows the available devices drivers including ASRock Express GbL PCI Express LAN card driver if the system detects the installed devices.



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Please install the necessary drivers to activate the devices. 4.2.3 Utilities Menu The Utilities Menu shows the applications software that the motherboard supports. Click on a specific item then follow the installation wizard to install it.

4.2.4 Contact Information If you need to contact ASRock or want to know more about ASRock, welcome to visit ASRock's website at <http://www.asrock.com>; or you may contact your dealer for further information.

39 APPENDIX: Technology AMD's Cool 'n' Quiet™ Technology For power-saving sake, it is strongly recommended to enable AMD's Cool 'n' Quiet™ technology under Windows system. When using this feature, please make sure to install "AMD Processor Driver" from the "Support CD" first. If you are using Windows 2000/XP operating system, please follow the instruction below to enable AMD's Cool 'n' Quiet™ technology: 1. 2. 3.

4. 5. 6. From the Windows 2000/XP operating system, click the Start button. Select Settings, then Control Panel. Switch to Classic View. (for Windows XP only) Double-click the Display icon in the Control Panel then select the Screen Saver tab. Click the "Power...

" button. The following dialog box appears. From the Power schemes combo list box, select Minimal Power Management. Click OK to implement settings. If you are using Windows 98SE/ME operating system, please follow the instruction below to enable AMD's Cool 'n' Quiet™ technology: 1. 2. 3. 4. 5. 6. From the Windows 98SE/ME operating system, click the Start button. Select Settings, then Control Panel. Double-click the Display icon in the Control Panel then select the Screen Saver tab. From the Energy saving features of monitor group, click the "Settings..

." button. From the Power Options Properties dialog box, select AMD's Cool 'n' Quiet™ Technology tab. Click the Performance combo list box, to select desired mode. Automatic mode is the recommended setting.

Click OK to implement settings. 40 .



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