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You can read the recommendations in the user guide, the technical guide or the installation guide for ASROCK ALIVENF6P-VSTA. You'll find the answers to all your questions on the ASROCK ALIVENF6P-VSTA in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ASROCK ALIVENF6P-VSTA
User guide ASROCK ALIVENF6P-VSTA
Operating instructions ASROCK ALIVENF6P-VSTA
Instructions for use ASROCK ALIVENF6P-VSTA
Instruction manual ASROCK ALIVENF6P-VSTA



ASRock

ALiveNF6P-VSTA

User Manual

Version 1.1
Published November 2007
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Manual abstract:

In no event shall ASRock, its directors, officers, employees, or agents be liable for any indirect, special, incidental, or consequential damages (including damages for loss of profits, loss of business, loss of data, interruption of business and the like), even if ASRock has been advised of the possibility of such damages arising from any defect or error in the manual or product. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. CALIFORNIA, USA ONLY The Lithium battery adopted on this motherboard contains Perchlorate, a toxic substance controlled in Perchlorate Best Management Practices (BMP) regulations passed by the California Legislature. When you discard the Lithium battery in California, USA, please follow the related regulations in advance. "Perchlorate Material-special handling may apply, see www.dtsc.ca.gov/hazardouswaste/perchlorate"

ASRock Website: <http://www.asrock.com>

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Introduction Thank you for purchasing ASRock ALiveNF6P-VSTA 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 VGA cards and CPU support lists on ASRock website as well. ASRock website <http://www.asrock.com> If you require technical support related to this motherboard, please visit our website for specific information about the model you are using. www.asrock.com/support/index.asp 1.1 ackage P ack age Contents 1 x ASRock ALiveNF6P-VSTA Motherboard (Micro ATX Form Factor): 9.

6-in x 7.7-in, 24.4 cm x 19.6 cm) 1 x ASRock ALiveNF6P-VSTA Quick Installation Guide 1 x ASRock ALiveNF6P-VSTA 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 HDMI_SPDIF Cable (Optional) 1 x "ASRock 6CH I/O Plus" I/O Shield 5 1.2 Specifications - Micro ATX Form Factor: 9.6-in x 7.7-in, 24.4 cm x 19.6 cm - Socket AM2 for AMD Phenom™ X4 / X2, Athlon 64FX / 64X2 / X2 / 64 and Sempron Processors - AMD LIVE!™ Ready - Supports AMD's Cool 'n' Quiet™ Technology - FSB 1000 MHz (2.

0 GT/s) - Supports United Overclocking Technology (see CAUTION 1) - Supports Hyper-Transport Technology - NVIDIA® GeForce 6150SE / nForce 430 - Dual Channel DDRII Memory Technology (see CAUTION 2) - 2 x DDRII DIMM slots - Support DDRII1066/800/667/533 (see CAUTION 3) - Max. capacity: 4GB (see CAUTION 4) - CPU Frequency Stepless Control (see CAUTION 5) - ASRock U-COP (see CAUTION 6) - Boot Failure Guard (B.F.G.) - ASRock AM2 Boost: ASRock Patented Technology to boost memory performance up to 12.

5% (see CAUTION 7) - 1 x PCI Express x16 slot - 1 x PCI Express x1 slot - 2 x PCI slots - Integrated NVIDIA® GeForce6-class graphics - DX9.0 VGA, Pixel

Shader 3.0 - Max. shared memory 256MB - 5.1 CH Windows® Vista™ Premium Level HD Audio (Realtek ALC662 Audio Codec) - Realtek PHY RTL8201CL - Speed: 10/100 Ethernet - Supports Wake-On-LAN ASRock 6CH I/O Plus - 1 x PS/2 Mouse Port - 1 x PS/2 Keyboard Port - 1 x Serial Port: COM1 - 1 x VGA Port - 1 x Parallel Port (ECP/EPP Support) - 6 x Ready-to-Use USB 2.

0 Ports - 1 x RJ-45 LAN Port - HD Audio Jack: Line in / Front Speaker / Microphone Platform CPU Chipset Memory Hybrid Booster Expansion Slot Graphics Audio LAN Rear Panel I/O 6 Connector BIOS Feature Support CD Hardware Monitor OS Certifications - 4 x Serial ATAII 3.0Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 0+1, RAID 5 and JBOD), NCQ and "Hot Plug" functions (see CAUTION 8) - 1 x ATA133 IDE connector (supports 2 x IDE devices) - 1 x Floppy connector - 1 x DeskExpress Hot Plug Detection header - 1 x HDMI_SPDIF header - CPU/Chassis FAN connector - 24 pin ATX power connector - 4 pin 12V power connector - CD in header - Front panel audio connector - 1 x USB 2.0 header (supports 2 USB 2.0 ports) (see CAUTION 9) - 1 x WiFi/E header (see CAUTION 10) - 4Mb AMI BIOS - AMI Legal BIOS - Supports "Plug and Play" - ACPI 1.1 Compliance Wake Up Events - Supports jumperfree - SMBIOS 2.3.1 Support - Drivers, Utilities, AntiVirus Software (Trial Version) - CPU Temperature Sensing - Chassis Temperature Sensing - CPU Fan Tachometer - Chassis Fan Tachometer - CPU Quiet Fan - Voltage Monitoring: +12V, +5V, +3.



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3V, Vcore - Microsoft® Windows® 2000/XP/XP Media Center/XP 64-bit/ Vista™/Vista™ 64-bit compliant - FCC, CE, Microsoft® WHQL Certified
WARNING Please realize that there is a certain risk involved with overclocking, including adjusting the setting in the BIOS, applying Untied Overclocking Technology, or using the thirdparty overclocking tools. Overclocking may affect your system stability, or even cause damage to the components and devices of your system. It should be done at your own risk and expense.

We are not responsible for possible damage caused by overclocking. 7 CAUTION! 1. 2. This motherboard supports Untied Overclocking Technology. Please read "Untied Overclocking Technology" on page 29 for details. This motherboard supports Dual Channel Memory Technology. Before you implement Dual Channel Memory Technology, make sure to read the installation guide of memory modules on page 14 for proper 3. installation. Whether 1066MHz memory speed is supported depends on the AM2+ CPU you adopt. Since DDRII1066 specification is out of JEDEC memory standard, if you want to adopt DDRII1066 memory module on this motherboard, please refer to the memory support list on our website for the compatible memory modules.

4. ASRock website <http://www.asrock.com> Due to the operating system limitation, the actual memory size may be less than 4GB for the reservation for system usage under Windows® XP and Windows® Vista™. For Windows® XP 64-bit and Windows® Vista™ 645.

bit with 64-bit CPU, there is no such limitation. Although this motherboard offers stepless control, CLRCMOS1 1 1 USB6_7 SATAII_4(PORT3) FLOPPY1 20
1 2 3 4 5 6 7 8 9 10 11 12 13 14 19 18 17 16 15 14 System Panel Header (PANEL1) USB 2.0 Header (USB6_7, Blue) Clear CMOS Jumper (CLRCMOS1)
Floppy Connector (FLOPPY1) HDMI_SPDIF Header (HDMI_SPDIF1) WiFi/E Header (WiFi/E) DeskExpress Hot Plug Detection Header (IR1) PCI Slots
(PCI1- 2) Internal Audio Connector: CD1 (Black) Front Panel Audio Header (HD_AUDIO1) PCI Express x16 Slot (PCIE2) PCI Express x1 Slot (PCIE1)
ATX Power Connector (ATXPWR1) CPU Fan Connector (CPU_FAN1) PS2_USB_PW1 Jumper 15 ATX 12V Power Connector (ATX12V1) 16 Chassis Fan
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DDRII_2; Yellow) 21 Primary IDE Connector (IDE1, Blue) BIOS SPI Chip 22 NVIDIA GeForce 6150SE / nForce 430 Chipset 23 Chassis Speaker Header
(SPEAKER 1) 24 SATAII Connector (SATAII_1 (PORT0), Red) 25 SATAII Connector (SATAII_2 (PORT1), Red) 26 SATAII Connector (SATAII_3 (PORT2),
Red) 27 SATAII Connector (SATAII_4 (PORT3), Red) 28 10 1.5 ASRock 6CH I/O Plus TM 1 2 3 4 5 6 7 12 11 10 9 8 1 2 3 4 5 6 PS/2 Mouse Port (Green)
Parallel Port USB 2.0 Ports (USB23) RJ-45 Port Line In (Light Blue) Line Out (Lime) 7 8 9 10 11 12 Microphone (Pink) Shared USB 2.

0 Ports (USB45) USB 2.0 Ports (USB01) VGA Port COM Port PS/2 Keyboard Port (Purple) * To enable Multi-Streaming function, you need to connect a front panel audio cable to the front panel audio header. Please refer to below steps for the software setting of Multi-Streaming. For Windows® XP: After restarting your computer, you will find "Mixer" tool on your system. Please select "Mixer ToolBox", click "Enable playback multi-streaming", and click "ok". Choose "2CH" or "4CH" and then you are allowed to select "Realtek HDA Primary output" to use Rear Speaker and Front Speaker, or select "Realtek HDA Audio 2nd output" to use front panel audio. Then reboot your system. For Windows® Vista™: After restarting your computer, please double-click "Realtek HD Audio Manager" on the system tray. Set "Speaker Configuration" to "Quadraphonic" or "Stereo". Click "Device advanced settings", choose "Make front and rear output devices playbacks two different audio streams simultaneously", and click "ok".

Then reboot your system. 11 2. Installation This is a Micro ATX form factor (9.6-in x 7.7-in, 24.4 cm x 19.6 cm) motherboard. Before you install the motherboard, study the configuration of your chassis to ensure that the motherboard fits into it. Pre-installation Precautions Take note of the following precautions before you install motherboard components or change any motherboard settings. Before you install or remove any component, ensure that the power 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. 1. 2. 3. 4.

5. Unplug the power cord from the wall socket before touching any component. To avoid damaging the motherboard components due to static electricity, NEVER place your motherboard directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before you handle components. Hold components by the edges and do not touch the ICs.

Whenever you uninstall any component, place it on a grounded antistatic pad or in the bag that comes with the component. When placing screws into the screw holes to secure the motherboard to the chassis, please do not over-tighten the screws! Doing so may damage the motherboard. 12 2.1 Step 1. Step 2. Step 3. CPU Installation Unlock the socket by lifting the lever up to a 90 angle. Position the CPU directly above the socket such that the CPU corner with the golden triangle matches the socket corner with a small triangle. Carefully insert the CPU into the socket until it fits in place. The CPU fits only in one correct orientation.

DO NOT force the CPU into the socket to avoid bending of the pins. o Step 4. When the CPU is in place, press it firmly on the socket while you push down the socket lever to secure the CPU. The lever clicks on the side tab to indicate that it is locked. Lever 90° Up CPU Golden Triangle Socket Corner Small Triangle
STEP 1: Lift Up The Socket Lever STEP 2 / STEP 3: STEP 4: Match The CPU Golden Triangle Push Down And Lock To The Socket Corner Small The Socket
Lever Triangle 2.2 Installation of CPU Fan and Heatsink After you install the CPU into this motherboard, it is necessary to install a larger heatsink and cooling fan to dissipate heat. You also need to spray thermal grease between the CPU and the heatsink to improve heat dissipation. Make sure that the CPU and the heatsink are securely fastened and in good contact with each other. Then connect the CPU fan to the CPU FAN connector (CPU_FAN1, see Page 10,

No. 28).

For proper installation, please kindly refer to the instruction manuals of the CPU fan and the heatsink. 13 Memory 2.3 Installation of Memory Modules (DIMM) ALiveNF6P-VSTA motherboard provides two 240-pin DDRII (Double Data Rate) DIMM slots, and supports Dual Channel Memory Technology. For dual channel configuration, you always need to install two identical (the same brand, speed, size and chip-type) memory modules in the DDRII DIMM slots to activate Dual Channel Memory Technology.



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Otherwise, it will operate at single channel mode.

1. 2. It is not allowed to install a DDR memory module into DDRII slot; otherwise, this motherboard and DIMM may be damaged. If you install only one memory module or two non-identical memory modules, it is unable to activate the Dual Channel Memory Technology. Installing a DIMM Please make sure to disconnect power supply before adding or removing DIMMs or the system components.

Step 1. Step 2. Unlock a DIMM slot by pressing the retaining clips outward. Align a DIMM on the slot such that the notch on the DIMM matches the break on the slot. notch break notch break The DIMM only fits in one correct orientation. It will cause permanent damage to the motherboard and the DIMM if you force the DIMM into the slot at incorrect orientation. 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. 14 2.4 Expansion Slots (PCI and PCI Express Slots) There are 2 PCI slots and 2 PCI Express slots on this motherboard.

PCI slots: PCI slots are used to install expansion cards that have the 32-bit PCI interface. PCIE slots: PCIE1 (PCIE x1 slot) is used for PCI Express cards with x1 lane width cards, such as Gigabit LAN card, SATA2 card, etc. PCIE2 (PCIE x16 slot) is used for PCI Express cards with x16 lane width graphics cards. 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 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.

Step 2. Step 3. Step 4. 15 2.5 Easy Multi Monitor Feature This motherboard supports Multi Monitor upgrade.

With the internal onboard VGA and the external add-on PCI Express VGA card, you can easily enjoy the benefits of Multi Monitor feature. Please refer to the following steps to set up a multi monitor environment: 1. Install the NVIDIA® PCI Express VGA card to PCIE2 (PCIE x16 slot). Please refer to page 15 for proper expansion card installation procedures for details. 2.

Connect the D-Sub monitor cable to the VGA/D-Sub port on the I/O panel of this motherboard. Connect another D-Sub monitor cable to the VGA/D-Sub connector of the add-on PCI Express VGA card. Connect the DVI-D monitor cable to the VGA/DVI-D connector of the add-on PCI Express VGA card. 3. Boot your system. Press <F2> to enter BIOS setup. Enter "Share Memory" option to adjust the memory capability to [16MB], [32MB], [64MB], [128MB] or [256MB] to enable the function of onboard VGA/D-sub. Please make sure that the value you select is less than the total capability of the system memory. If you do not adjust the BIOS setup, the default value of "Share Memory", [Auto], will disable onboard VGA/D-Sub function when the add-on VGA card is inserted to this motherboard. 4.

Install the onboard VGA driver to your system. If you have installed the onboard VGA driver already, there is no need to install it again. 5. Set up a multi-monitor display. For Windows® 2000 / XP / XP 64-bit OS: Right click the desktop, choose "Properties", and select the "Settings" tab so that you can adjust the parameters of the multi-monitor according to the steps below. A. Click the "Identify" button to display a large number on each monitor. B. Right-click the display icon in the Display Properties dialog that you wish to be your primary monitor, and then select "Primary". When you use multiple monitors with your card, one monitor will always be Primary, and all additional monitors will be designated as Secondary.

C. Select the display icon identified by the number 2. D. Click "Extend my Windows desktop onto this monitor". E.

Right-click the display icon and select "Attached", if necessary. F. Set the "Screen Resolution" and "Color Quality" as appropriate for the second monitor.

Click "Apply" or "OK" to apply these new values. G.

Repeat steps C through E for the display icon identified by the number one, two and three. For Windows® Vista™ / Vista™ 64-bit OS: Right click the desktop, choose "Personalize", and select the "Display Settings" tab so that you can adjust the parameters of the multi-monitor according to the steps below.

A. Click the number "2" icon. 16 B. Click the items "This is my main monitor" and "Extend the desktop onto this monitor". C. Click "OK" to save your change.

D. Repeat steps A through C for the display icon identified by the number three.

6. Use Multi Monitor feature. Click and drag the display icons to positions representing the physical setup of your monitors that you would like to use. The placement of display icons determines how you move items from one monitor to another. 2.6 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.

10, No. 1) Setting 1_2_2_3 Short pin2, pin3 to enable +5VSB (standby) for PS2 or +5V +5VSB USB wake up events. Note: To select +5VSB, it requires 2 Amp and higher standby current provided by power supply. Clear CMOS Jumper (CLRCMOS1) (see p.10, No.

17) 1_2_2_3 Default Clear CMOS Note: CLRCMOS1 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 CLRCMOS1 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. 17 2.7 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.10 No. 18) 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.10 No. 7) PIN1 IDE1 connect the blue end to the motherboard connect the black end to the IDE devices

80-conductor ATA 66/100/133 cable Note: Please refer to the instruction of your IDE device vendor for the details.



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STEP 2: Connect the SATA power cable to the SATA / SATAII hard disk. **STEP 3:** Connect one end of the SATA data cable to the motherboard's SATAII connector. **STEP 4:** Connect the other end of the SATA data cable to the SATA / SATAII hard disk. Functions SAT SAT 2 . 1 1 Hot Plug and Hot Swap Functions for SATA / SATAII HDDs This motherboard supports Hot Plug and Hot Swap functions for SATA / SATAII Devices.

NOTE What is Hot Plug Function? If the SATA / SATAII HDDs are NOT set for RAID configuration, it is called "Hot Plug" for the action to insert and remove the SATA / SATAII HDDs while the system is still power-on and in working condition. However, please note that it cannot perform Hot Plug if the OS has been installed into the SATA / SATAII HDD. What is Hot Swap Function? If SATA / SATAII HDDs are built as RAID1 or RAID 5 then it is called "Hot Swap" for the action to insert and remove the SATA / SATAII HDDs while the system is still power-on and in working condition. 24 SAT SAT Feature 2.12 SATA / SATAII HDD Hot Plug Feature and Operation Guide This motherboard supports Hot Plug feature for SATA / SATAII HDD. Please read below operation guide of SATA / SATAII HDD Hot Plug feature carefully. Before you process the SATA / SATAII HDD Hot Plug, please check below cable accessories from the motherboard gift box pack. A. 7-pin SATA data cable B. SATA power cable with SATA 15-pin power connector interface A. SATA data cable (Red) B. SATA power cable SATA 7-pin connector The SATA 15-pin power connector (Black) connect to SATA / SATAII HDD 1x4-pin conventional power connector (White) connect to power supply Caution 1. Without SATA 15-pin power connector interface, the SATA / SATAII Hot Plug cannot be processed. 2. Even some SATA / SATAII HDDs provide both SATA 15-pin power connector and IDE 1x4-pin conventional power connector interfaces, the IDE 1x4-pin conventional power connector interface is definitely not able to support Hot Plug and will cause the HDD damage and data loss. Points of attention, before you process the Hot Plug: 1. Below operation procedure is designed only for our motherboard, which supports SATA / SATAII HDD Hot Plug. * The SATA / SATAII Hot Plug feature might not be supported by the chipset because of its limitation, the SATA / SATAII Hot Plug support information of our motherboard is indicated in the product spec on our website: www.asrock.com 2.

Make sure your SATA / SATAII HDD can support Hot Plug function from your dealer or HDD user manual. The SATA / SATAII HDD, which cannot support Hot Plug function, will be damaged under the Hot Plug operation. 3. Please make sure the SATA / SATAII driver is installed into system properly. The latest SATA / SATAII driver is available on our support website: www.asrock.com 4. Make sure to use the SATA power cable & data cable, which are from our motherboard package. 5. Please follow below instructions step by step to reduce the risk of HDD crash or data loss.

25 How to Hot Plug a SATA / SATAII HDD: Points of attention, before you process the Hot Plug: Please do follow below instruction sequence to process the Hot Plug, improper procedure will cause the SATA / SATAII HDD damage and data loss. Step 1 Please connect SATA power cable 1x4-pin end (White) to the power supply 1x4-pin cable. Step 2 Connect SATA data cable to the motherboard's SATAII connector. SATA power cable 1x4-pin power connector (White) Step 3 Connect SATA 15-pin power cable connector (Black) end to SATA / SATAII HDD. Step 4 Connect SATA data cable to the SATA / SATAII HDD. How to Hot Unplug a SATA / SATAII HDD: Points of attention, before you process the Hot Unplug: Please do follow below instruction sequence to process the Hot Unplug, improper procedure will cause the SATA / SATAII HDD damage and data loss. Step 1 Unplug SATA data cable from SATA / SATAII HDD side. Step 2 Unplug SATA 15-pin power cable connector (Black) from SATA / SATAII HDD side. 26 2 . 1 3 Driver Installation Guide To install the drivers to your system, please insert the support CD to your optical drive first.

Then, the drivers compatible to your system can be auto-detected and listed on the support CD driver page. Please follow the order from up to bottom side to install those required drivers. Therefore, the drivers you install can work properly. 2 . 1 4 Installing Windows ® 2000 / XP / XP 64-bit / Vista TM Without Functions / Vista TM 64-bit W ithout RAID F unctions If you just want to install Windows® 2000, Windows® XP, Windows® XP 64-bit, Windows® VistaTM or Windows® VistaTM 64-bit on your SATA / SATAII HDDs without RAID functions, you don't have to make a SATA / SATAII driver diskette.

Besides, there is no need for you to change the BIOS setting. You can start to install Windows® 2000, Windows® XP, Windows® XP 64-bit, Windows® VistaTM or Windows® VistaTM 64-bit on your system directly. 2 . 1 5 Installing Windows ® 2000 / XP / XP 64-bit / Vista TM With Functions / Vista TM 64-bit W ith RAID Functions If you want to install Windows® 2000, Windows® XP, Windows® XP 64-bit, Windows® VistaTM or Windows® VistaTM 64-bit OS on your SATA / SATAII HDDs with RAID functions, please follow below procedures according to the OS you install. Before installing Windows ® 2000 to your system, your Windows® 2000 optical disk is supposed to include SP4.

If there is no SP4 included in your disk, please visit the below website for proper procedures of making a SP4 disk:

http://www.microsoft.com/Windows2000/downloads/servicepacks/sp4/spdeploy.htm#the_integrated_installation_fm 2.15.1 Installing Windows ® 2000 / XP / XP 64-bit With RAID Functions If you want to install Windows® 2000, Windows® XP or Windows® XP 64-bit on your SATA / SATAII HDDs with RAID functions, please follow below steps. STEP 1: Make a SATA / SATAII Driver Diskette. A. Insert the ASRock Support CD into your optical drive to boot your system. B.

During POST at the beginning of system boot-up, press <F11> key, and then a window for boot devices selection appears. Please select CDROM as the boot device. C. When you see the message on the screen, "Generate Serial ATA driver diskette [YN]?", press <Y>. 27 Then you will see these messages, Please insert a blank formatted diskette into floppy drive A: press any key to start Please insert a floppy diskette into the floppy drive, and press any key. E. The system will start to format the floppy diskette and copy SATA / SATAII drivers into the floppy diskette. STEP 2: Set Up BIOS. A. Enter BIOS SETUP UTILITY Advanced screen IDE Configuration.

B. Set the "SATA Operation Mode" option to [RAID]. STEP 3: Use "RAID Installation Guide" to set RAID configuration. Before you start to configure RAID function, you need to check the RAID installation guide in the Support CD for proper configuration. Please refer to the BIOS RAID installation guide in the following path in the Support CD: .



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. \ RAID Installation Guide STEP 4: Install Windows® 2000 / Windows® XP / Windows® XP 64-bit OS on your system. After step 1, 2, 3, you can start to install Windows® 2000 / Windows® XP / Windows® XP 64-bit OS on your system. At the beginning of Windows® setup, press F6 to install a third-party RAID driver. When prompted, insert the SATA / SATAII driver diskette containing the NVIDIA® RAID driver.

After reading the floppy disk, the driver will be presented. Select the driver to install according to the mode you choose and the OS you install. NOTE: If you install Windows® 2000 / Windows® XP / Windows® XP 64-bit on IDE HDDs and want to manage (create, convert, delete, or rebuild) RAID functions on SATA / SATAII HDDs, you still need to set up "SATA Operation Mode" to [RAID] in BIOS first. Then, please set the RAID configuration by using the Windows RAID installation guide in the following path in the Support CD: .. \ RAID Installation Guide D. 2.15.2 Installing Windows® Vista™ / Vista™ 64-bit With Functions RAID Functions If you want to install Windows® Vista™ or Windows® Vista™ 64-bit on your SATA / SATAII HDDs with RAID functions, please follow below steps.

STEP 1: Set Up BIOS. A. Enter BIOS SETUP UTILITY Advanced screen B. Set the "SATA Operation Mode" option to [RAID]. IDE Configuration. 28 STEP 2: Use "RAID Installation Guide" to set RAID configuration. Before you start to configure RAID function, you need to check the RAID installation guide in the Support CD for proper configuration. Please refer to the BIOS RAID installation guide part of the document in the following path in the Support CD: .. \ RAID Installation Guide STEP 3: Install Windows® Vista™ / Windows® Vista™ 64-bit OS on your system.

Insert the Windows® Vista™ / Windows® Vista™ 64-bit optical disk into the optical drive to boot your system, and follow the instruction to install Windows® Vista™ / Windows® Vista™ 64-bit OS on your system. When you see "Where do you want to install Windows?" page, please insert the ASRock Support CD into your optical drive, and click the "Load Driver" button on the left on the bottom to load the NVIDIA® RAID drivers. NVIDIA® RAID drivers are in the following path in our Support CD: .. \ I386 \ Vista (For Windows® Vista™ OS) .

. \ AMD64 \ Vista64 (For Windows® Vista™ 64-bit OS) After that, please insert Windows® Vista™ / Windows® Vista™ 64-bit optical disk into the optical drive again to continue the installation. NOTE: If you install Windows® Vista™ / Windows® Vista™ 64-bit on IDE HDDs and want to manage (create, convert, delete, or rebuild) RAID functions on SATA / SATAII HDDs, you still need to set up "SATA Operation Mode" to [RAID] in BIOS first. Then, please set the RAID configuration by using the Windows RAID installation guide in the following path in the Support CD: .

. \ RAID Installation Guide Technology 2 . 1 6 Untied Overclocking Technology This motherboard supports Untied Overclocking Technology, which means during overclocking, FSB enjoys better margin due to fixed PCI / PCIE buses. Before you enable Untied Overclocking function, please enter "Overclock Mode" option of BIOS setup to set the selection from [Auto] to [CPU, PCIE, Async.]. Therefore, CPU FSB is untied during overclocking, but PCI / PCIE buses are in the fixed mode so that FSB can operate under a more stable overclocking environment. Please refer to the warning on page 7 for the possible overclocking risk before you apply Untied Overclocking Technology. 29 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. 30 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 [17:00:09] [Wed 10/31/2007] Use [Enter], [TAB] or [SHIFT-TAB] to select a field.

Use [+] or [-] to configure system Time. : ALiveNF6P-VSTA BIOS P1.00 : AMD Athlon(tm) 64 X2 Dual Core Processor 5000+ (64bit) Processor Speed : 2600 MHz Microcode Update : 60FB2/0 : 256KB L1 Cache Size : 1024KB L2 Cache Size Total Memory DDRII 1 DDRII 2 : 512MB with 64MB shared memory Dual-Channel Memory Mode : 256MB/266MHz (DDRII533) : 256MB/266MHz (DDRII533) +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. 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. 31 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.



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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. 32 3.3.1 CPU Configuration BIOS SETUP UTILITY Advanced CPU Configuration AM2 Boost Overclock Mode CPU Frequency (MHz) PCIE Frequency (MHz) CPU/LDT Spread Spectrum PCIE Spread Spectrum SATA Spread Spectrum Boot Failure Guard Cool 'n' Quiet Secure Virtual Machine Enhanced Halt State Processor Maximum Multiplier Processor Maximum Voltage Multiplier/Voltage Change Memory Clock Flexibility Option [Disabled] [Auto] [200] [100] [Enabled] [Enabled] [Enabled] [Auto] [Enabled] [Disabled] x25.

0 5000 MHz 1.350 V [Auto] [Auto] [Disabled] 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 Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. AM2 Boost If you set this option to [Enabled], you will enable ASRock AM2 Boost function, which will improve the memory performance. The default value is [Disabled]. Please refer to caution 7 on page 8 for details. Overclock Mode Use this to select Overclock Mode. The default value is [Auto].

Configuration options: [Auto], [CPU, PCIE, Sync.] and [CPU, PCIE, Async.]. CPU Frequency (MHz) Use this option to adjust CPU frequency. PCIE Frequency (MHz) Use this option to adjust PCIE frequency.

CPU/LDT Spread Spectrum This feature will be set to [Enabled] as default. Configuration options: [Disabled] and [Enabled]. PCIE Spread Spectrum This feature will be set to [Enabled] as default. Configuration options: [Disabled] and [Enabled]. SATA Spread Spectrum This feature will be set to [Enabled] as default.

Configuration options: [Disabled] and [Enabled]. Boot Failure Guard Enable or disable the feature of Boot Failure Guard. Cool 'n' Quiet Use this item to enable or disable AMD's Cool 'n' Quiet™ technology. The default value is [Auto]. Configuration options: [Auto], [Enabled] and [Disabled]. If you install Windows® Vista™ and want to enable this function, please set this item to [Enabled]. Please note that enabling this function may 33 reduce CPU voltage and memory frequency, and lead to system stability or compatibility issue with some memory modules or power supplies. Please set this item to [Disable] if above issue occurs. Secure Virtual Machine When this option is set to [Enabled], a VMM (Virtual Machine Architecture) can utilize the additional hardware capabilities provided by AMD-V. The default value is [Enabled].

Configuration options: [Enabled] and [Disabled]. Enhance Halt State All processors support the Halt State (C1). The C1 state is supported through the native processor instructions HLT and MWAIT and requires no hardware support from the chipset. In the C1 power state, the processor maintains the context of the system caches. 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. BIOS SETUP UTILITY Advanced CPU Configuration AM2 Boost Overclock Mode CPU Frequency (MHz) PCIE Frequency (MHz) CPU/LDT Spread Spectrum PCIE Spread Spectrum SATA Spread Spectrum Boot Failure Guard Cool 'n' Quiet Secure Virtual Machine Enhanced Halt State Processor Maximum Multiplier Processor Maximum Voltage Multiplier/Voltage Change Processor Multiplier Processor Voltage [Disabled] [Auto] [200] [100] [Enabled] [Enabled] [Enabled] [Enabled] [Auto] [Enabled] [Disabled] x25.

0 5000 MHz 1.350 V [Manual] [x8] [1.500V] 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 Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. Processor Multiplier This item will show when "Multiplier/Voltage Change" is set to [Manual]; otherwise, it will be hidden. The range of the value depends on the CPU you adopt on this motherboard. 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. The range of the value depends on the CPU you adopt on this motherboard. However, for safety and system stability, it is not recommended to adjust the value of this item. 34 Memory Clock This item can be set by the code using [Auto]. You can set one of the standard values as listed: [200MHz (DDRII400)], [266MHz (DDRII533)], [333MHz (DDRII667)] and [400MHz (DDRII800)]. Flexibility Option The default value of this option is [Disabled]. It will allow better tolerance for memory compatibility when it is set to [Enabled]. CAS Latency (CL) Use this item to adjust the means of memory accessing. Configuration options: [Auto], [3CLK], [4CLK], [5CLK] and [6CLK]. The default value is [Auto]. TRCD Use this to adjust TRCD values.

Configuration options: [Auto], [3CLK], [4CLK], [5CLK] and [6CLK]. The default value is [Auto]. TRP Use this to adjust TRP values. Configuration options: [Auto], [3CLK], [4CLK], [5CLK] and [6CLK]. The default value is [Auto]. TRTP Use this to adjust TRTP values. Configuration options: [Auto], [2-4CLK] and [3-5CLK]. The default value is [Auto]. TRAS Use this to adjust TRAS values. Configuration options: [Auto], [5CLK] to [18CLK]. The default value is [Auto]. TRRD Use this to adjust TRRD values. Configuration options: [Auto], [2CLK], [3CLK], [4CLK] and [5CLK]. The default value is [Auto]. TRC Use this to adjust TRC values.

Configuration options: [11CLK] to [26CLK]. The default value is [Auto]. TWR Use this to adjust TWR values. Configuration options: [Auto], [3CLK], [4CLK], [5CLK] and [6CLK]. The default value is [Auto].

TWTR Use this to adjust TWTR values. Configuration options: [Auto], [1CLK], [2CLK] and [3CLK]. The default value is [Auto]. TRWTTD Use this to adjust TRWTTD values. Configuration options: [Auto], [2CLK], [3CLK], [4CLK], [5CLK], [6CLK], [7CLK], [8CLK] and [9CLK]. The default value is [Auto]. TWRRD Use this to adjust TWRRD values. Configuration options: [Auto], [0CLK], [1CLK], [2CLK] and [3CLK]. The default value is [Auto]. 35 TWRWR Use this to adjust TWRWR values.

Configuration options: [Auto], [1CLK], [2CLK] and [3CLK].



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The default value is [Auto]. TRDRD Use this to adjust TRWTTD values. Configuration options: [Auto], [2CLK], [3CLK], [4CLK] and [5CLK]. 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]. Bank Interleaving Interleaving allows memory accesses to be spread out over banks on the same node, or across nodes, decreasing access contention. 36 3.

3. 2 Chipset Configuration BIOS SETUP UTILITY Advanced Chipset Settings Onboard LAN Onboard HD Audio Front Panel Share Memory Primary Graphics Adapter CPU-NB Link Speed CPU-NB Link Width DRAM Voltage Chipset Core Voltage [Enabled] [Auto] [Auto] [Auto] [PCI] [Auto] [Auto] [Auto] [Auto] Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit To set DRAM Voltage. +F1 F9 F10 ESC v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. OnBoard LAN This allows you to enable or disable the onboard LAN feature.

OnBoard HD Audio Select [Auto], [Enabled] or [Disabled] for the onboard HD Audio feature. If you select [Auto], the onboard HD Audio will be disabled when PCI Sound Card is plugged. Front Panel Select [Auto], [Enabled] or [Disabled] for the onboard HD Audio Front Panel. Share Memory This allows you to set share memory feature. The default value is [Auto].

Configuration options: [Auto], [16MB], [32MB], [64MB], [128MB] and [256MB]. 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], [Onboard] and [PCI Express]. CPU - NB Link Speed This feature allows you selecting CPU to NB link frequency.

Configuration options: [Auto], [200 MHz], [400 MHz], [600 MHz], [800 MHz] and [1000 MHz]. CPU - NB Link Width This feature allows you selecting CPU to NB link width. Configuration options: [Auto], [8 Bit] and [16 Bit]. DRAM Voltage Use this to select DRAM voltage.

Configuration options: [Auto], [1.82V], [1.90V], [1.95V], [2.00V] and [2.05V]. The default value is [Auto]. Chipset Voltage Use this to select chipset voltage. Configuration options: [Auto], [1.25V], [1.

28V], [1.30V] and [1.32V]. The default value is [Auto]. 37 3.

3. 3 ACPI Configuration BIOS SETUP UTILITY Advanced ACPI Settings Suspend To RAM Repost Video on STR Resume Away Mode Support Restore on AC / Power Loss Ring-In Power On PCI Devices Power On PS / 2 Keyboard Power On RTC Alarm Power On ACPI HPET Table [Auto] [No] [Disabled] [Power Off] [Disabled] [Disabled] [Disabled] [Disabled] [Disabled] +F1 F9 F10 ESC Select auto-detect or disable the STR feature. Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit 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. (STR refers to suspend to RAM.) Away Mode Support Use this item to enable or disable Away Mode support under Windows® XP Media Center OS. The default value is [Disabled]. Restore on AC/Power Loss This allows you to set the power state after an unexpected AC/power 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. 38 ACPI HPET Table Use this item to enable or disable ACPI HPET Table. The default value is [Disabled]. Please set this option to [Enabled] if you plan to use this motherboard to submit Windows® Vista™ certification. 3.3.4 IDE Configuration BIOS SETUP UTILITY Advanced IDE Configuration OnBoard IDE Controller OnBoard SATA Controller SATA Operation Mode IDE Master IDE Slave SATAII 1 SATAII 2 SATAII 3 SATAII 4 [Enabled] [Enabled] [non-RAID] [Hard Disk] [Not Detected] [Not Detected] [Not Detected] [Not Detected] +F1 F9 F10 ESC ENABLED: enables the integrated IDE Controller. DISABLED: disables the integrated IDE Controller.

Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. OnBoard IDE Controller Use this item to enable or disable the "OnBoard IDE Controller" feature. 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 / SATAII HDDs, please select [RAID]. * If you select [RAID] mode, SATA / SATAII HDDs can not be accessed until you finish configuring RAID functions in NVIDIA BIOS / Windows RAID Utility. IDE Device Configuration You may set the IDE configuration for the device that you specify. We will use the "IDE Master" as the example in the following instruction, which can be applied to the configurations of "IDE Slave" as well.

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



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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. **40 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].

32Bit 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 PCI / PnP Settings PCI Latency Timer PCI IDE BusMaster [32] [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.

@@@ 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].

If you plan to use ASRock DeskExpress on this motherboard, please keep this item on [Disabled] option. **42 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]. **3.3.8 USB Configuration BIOS SETUP UTILITY Advanced USB Configuration USB Controller USB 2.0 Support Legacy USB Support [Enabled] [Enabled] [Disabled]** To enable or disable the onboard USB controllers. +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. USB Controller Use this item to enable or disable the use of USB controller. **USB 2.0 Support** Use this item to enable or disable the USB 2.0 support. **43 Legacy USB Support** Use this item to enable or disable the support to emulate the I/O devices of legacy OS (DOS) such as mouse, keyboard, USB flash... etc. Or you may select [Auto] so that the system will start to auto-detect; if there is no USB device connected, "Auto" option will disable the legacy USB support.

3.4 Hardware Health Event Monitoring Screen In this section, it allows you to monitor the status of the hardware on your system, including the parameters of the CPU temperature, motherboard temperature, CPU fan speed, chassis fan speed, and the critical voltage. **BIOS SETUP UTILITY Boot H/W Monitor Main Advanced Security Exit Hardware Health Event Monitoring CPU Temperature M / B Temperature CPU Fan Speed Chassis Fan Speed Vcore + 3.30V + 5.00V + 12.00V CPU Quiet Fan : 37 C / 98 F : 31 C / 87 F : 2833 RPM : N/A : : : 1.532 V 3.129 V 4.877 V 11.741 V F1 F9 F10 ESC [Disabled] Select Screen Select Item General Help Load Defaults Save and Exit Exit v02.**

54 (C) Copyright 1985-2003, American Megatrends, Inc. CPU Quiet Fan This item allows you to identify the temperature of CPU fan. Configuration options: [Disabled] and [Enabled]. The default value is [Disabled]. You are allowed to enable this function only when you install 4-pin CPU fan. **44 3.5 Boot Screen** In this section, it will display the available devices on your system for you to configure the boot settings and the boot priority. **Main Advanced BIOS SETUP UTILITY H/W Monitor Boot Security Exit Boot Settings Boot Settings Configuration 1st Boot Device 2nd Boot Device 3rd Boot Device 4th Boot Device Hard Disk Drives Removable Drives CD/DVD Drives [1st Floppy Device] [HDD: PM - HDS722580VL] [CD / DVD: 3S - CD - ROM C] [USB] Configure Settings during System Boot. 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.**

3.5.1 Boot Settings Configuration BIOS SETUP UTILITY Boot Boot Settings Configuration Boot From Onboard LAN Bootup Num-Lock [Disabled] [On] To enable or disable the boot from onboard LAN feature. +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. **Boot Onboard LAN** Use this item to enable or disable the Boot Onboard LAN feature. **Boot Up Num-Lock** If this item is set to [On], it will automatically activate the Numeric Lock function after boot-up. **45 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 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. **46 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.



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