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***ALiveNF6G-DVI***  
***ALiveNF6G-VSTA***

**User Manual**

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- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

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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](http://www.dtsc.ca.gov/hazardouswaste/perchlorate)"

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# 1. Introduction

Thank you for purchasing ASRock **ALiveNF6G-DVI / ALiveNF6G-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>

## 1.1 Package Contents

- 1 x ASRock **ALiveNF6G-DVI / ALiveNF6G-VSTA** Motherboard  
(Micro ATX Form Factor: 9.6-in x 9.6-in, 24.4 cm x 24.4 cm)
- 1 x ASRock **ALiveNF6G-DVI / ALiveNF6G-VSTA** Quick Installation Guide
- 1 x ASRock **ALiveNF6G-DVI / ALiveNF6G-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 HD 8CH I/O Shield
- 1 x COM Port Bracket
- 1 x HDMR Card (Optional)
- 1 x DVI Graphics-SI Card (only for **ALiveNF6G-DVI**)

## 1.2 Specifications

<b>Platform</b>	- Micro ATX Form Factor: 9.6-in x 9.6-in, 24.4 cm x 24.4 cm
<b>CPU</b>	- Socket AM2 for AMD Athlon™ 64FX / 64X2 / 64 and Sempron Processors - AMD LIVE!™ Ready - Supports AMD's Cool 'n' Quiet™ Technology (see <b>CAUTION 1</b> ) - FSB 1000 MHz (2.0 GT/s) - Supports Untied Overclocking Technology (see <b>CAUTION 2</b> ) - Supports Hyper-Transport Technology
<b>Chipset</b>	- NVIDIA® GeForce 6100 / nForce 430 or GeForce 6150SE / nForce 430 (see <b>CAUTION 3</b> )
<b>Memory</b>	- Dual Channel DDRII Memory Technology (see <b>CAUTION 4</b> ) - 4 x DDRII DIMM slots - Support DDRII800/667/533 - Max. capacity: 8GB (see <b>CAUTION 5</b> )
<b>Hybrid Booster</b>	- CPU Frequency Stepless Control (see <b>CAUTION 6</b> ) - ASRock U-COP (see <b>CAUTION 7</b> ) - Boot Failure Guard (B.F.G.) - ASRock AM2 Boost: ASRock Patented Technology to boost memory performance up to 12.5% (see <b>CAUTION 8</b> )
<b>Expansion Slot</b>	- 2 x PCI slots - 1 x PCI Express x16 slot - 1 x PCI Express x1 slot - 1 x HDMR slot
<b>Graphics</b>	- Integrated NVIDIA® GeForce6-class graphics DX9.0 VGA - Pixel Shader 3.0 - Max. shared memory 256MB - Dual VGA Output: support D-Sub and DVI-D ports with DVI Graphics-SI card by independent display controllers ( <b>ALiveNF6G-DVI</b> )
<b>Audio</b>	- 7.1 CH Windows® Vista™ Premium Level HD Audio (ALC888 Audio Codec)
<b>LAN</b>	- Gigabit LAN 10/100/1000 Mb/s ( <b>ALiveNF6G-DVI</b> ) - Giga PHY Realtek RTL8211B ( <b>ALiveNF6G-DVI</b> ) - Realtek PHY RTL8201CL ( <b>ALiveNF6G-VSTA</b> ) - Speed: 10/100 Ethernet ( <b>ALiveNF6G-VSTA</b> ) - Supports Wake-On-LAN
<b>Rear Panel I/O</b>	HD 8CH I/O - 1 x PS/2 Mouse Port - 1 x PS/2 Keyboard Port

	<ul style="list-style-type: none"> <li>- 1 x VGA Port</li> <li>- 1 x Parallel Port (ECP/EPP Support)</li> <li>- 4 x Ready-to-Use USB 2.0 Ports</li> <li>- 1 x RJ-45 Port</li> <li>- HD Audio Jack: Side Speaker/Rear Speaker/Central/Bass/Line in/Front Speaker/Microphone (see <b>CAUTION 9</b>)</li> </ul>
<b>Connector</b>	<ul style="list-style-type: none"> <li>- 4 x Serial ATAII 3.0Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 0+1, RAID 5, JBOD), NCQ, and "Hot Plug" functions (see <b>CAUTION 10</b>)</li> <li>- 1 x ATA133 IDE connector (supports 2 x IDE devices)</li> <li>- 1 x Floppy connector</li> <li>- 1 x IR header</li> <li>- 1 x Game header</li> <li>- 1 x COM port header</li> <li>- 1 x HDMI_SPDIF header</li> <li>- CPU/Chassis FAN connector</li> <li>- 20 pin ATX power connector</li> <li>- 4 pin 12V power connector</li> <li>- CD in header</li> <li>- Front panel audio connector</li> <li>- 3 x USB 2.0 headers (support 6 USB 2.0 ports) (see <b>CAUTION 11</b>)</li> </ul>
<b>BIOS Feature</b>	<ul style="list-style-type: none"> <li>- 4Mb AMI BIOS</li> <li>- AMI Legal BIOS</li> <li>- Supports "Plug and Play"</li> <li>- ACPI 1.1 Compliance Wake Up Events</li> <li>- Supports jumperfree</li> <li>- SMBIOS 2.3.1 Support</li> </ul>
<b>Support CD</b>	<ul style="list-style-type: none"> <li>- Drivers, Utilities, AntiVirus Software (Trial Version)</li> </ul>
<b>Hardware Monitor</b>	<ul style="list-style-type: none"> <li>- CPU Internal Temperature Sensing</li> <li>- CPU Ambient Temperature Sensing</li> <li>- Chassis Temperature Sensing</li> <li>- CPU Fan Tachometer</li> <li>- Chassis Fan Tachometer</li> <li>- CPU Quiet Fan</li> <li>- Voltage Monitoring: +12V, +5V, +3.3V, Vcore</li> </ul>
<b>OS</b>	<ul style="list-style-type: none"> <li>- Microsoft® Windows® 2000/XP/XP 64-bit/Vista™/Vista™ 64-bit compliant (see <b>CAUTION 12</b>)</li> </ul>
<b>Certifications</b>	<ul style="list-style-type: none"> <li>- FCC, CE, Microsoft® WHQL Certified</li> </ul>

#### **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 third-party 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.

#### **CAUTION!**

1. For power-saving's sake, it is strongly recommended to enable AMD's Cool 'n' Quiet™ technology under Windows system. See APPENDIX on page 50 to enable AMD's Cool 'n' Quiet™ technology.
2. This motherboard supports Untied Overclocking Technology. Please read "Untied Overclocking Technology" on page 31 for details.
3. Both NVIDIA® GeForce 6100 / nForce 430 and GeForce 6150SE / nForce 430 refer to the same chipset. If you install NVIDIA® driver with 91.63 version or above under Windows® 2000 / XP / XP 64-bit, or install NVIDIA® driver with 97.19 version or above under Windows® Vista™ / Vista™ 64-bit, the chipset name will be GeForce 6150SE / nForce 430 instead of GeForce 6100 / nForce 430. However, the difference in device name under Windows® does not affect any specification and feature of this motherboard.
4. 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 15 for proper installation.
5. 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™ 64-bit with 64-bit CPU, there is no such limitation.
6. Although this motherboard offers stepless control, it is not recommended to perform over-clocking. Frequencies other than the recommended CPU bus frequencies may cause the instability of the system or damage the CPU.
7. 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.
8. This motherboard supports ASRock AM2 Boost overclocking technology. If you enable this function in the BIOS setup, the memory performance will improve up to 12.5%, but the effect still depends on the AM2 CPU you adopt. Enabling this function will overclock the chipset/CPU reference clock. However, we can not guarantee the system stability for all CPU/DRAM configurations. If your system is unstable after AM2 Boost function is enabled, it may not be applicative to your system. You may choose to disable this function for keeping the stability of your system.



9. 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 12 for proper connection.
10. Before installing SATAII hard disk to SATAII connector, please read the "SATAII Hard Disk Setup Guide" on page 27 to adjust your SATAII hard disk drive to SATAII mode. You can also connect SATA hard disk to SATAII connector directly.
11. Power Management for USB 2.0 works fine under Microsoft® Windows® Vista™ 64-bit / Vista™ / XP 64-bit / XP SP1 or SP2 / 2000 SP4.
12. Microsoft® Windows® Vista™ / Vista™ 64-bit driver keeps on updating now. As long as we have the latest driver, we will update it to our website in the future. Please visit our website for Microsoft® Windows® Vista™ / Vista™ 64-bit driver and related information.  
ASRock website <http://www.asrock.com>

### 1.3 Minimum Hardware Requirement Table for Windows® Vista™ Premium and Basic Logo

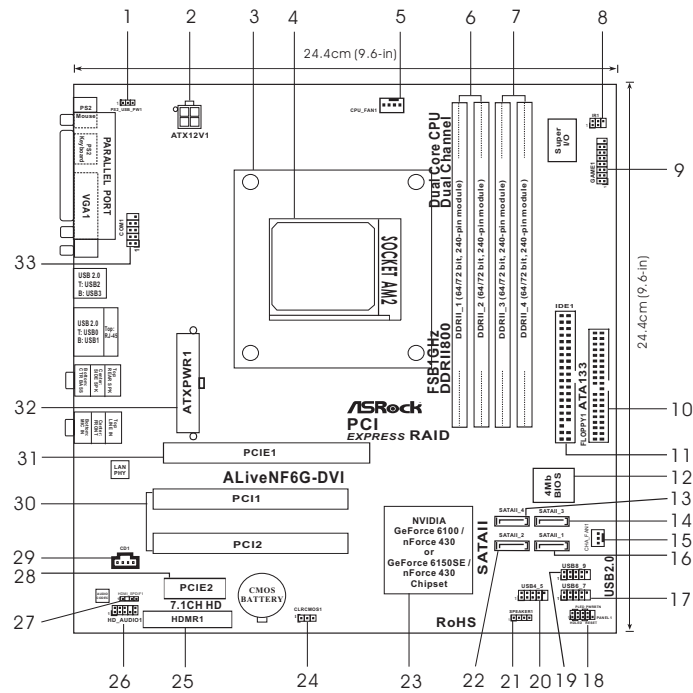
For system integrators and users who purchase this motherboard and plan to submit Windows® Vista™ Premium and Basic logo, please follow the below table for minimum hardware requirement.

CPU	Sempron 2800+
Memory	512MB x 2 Dual Channel (Premium)
	512MB Single Channel (Basic)
	256MB x 2 Dual Channel (Basic)

\* If you use onboard VGA with total system memory size 512MB and plan to submit Windows® Vista™ Basic logo, please adjust the shared memory size of onboard VGA to 64MB. If you use onboard VGA with total system memory size above 512MB and plan to submit Windows® Vista™ Premium or Basic logo, please adjust the shared memory size of onboard VGA to 128MB or above.

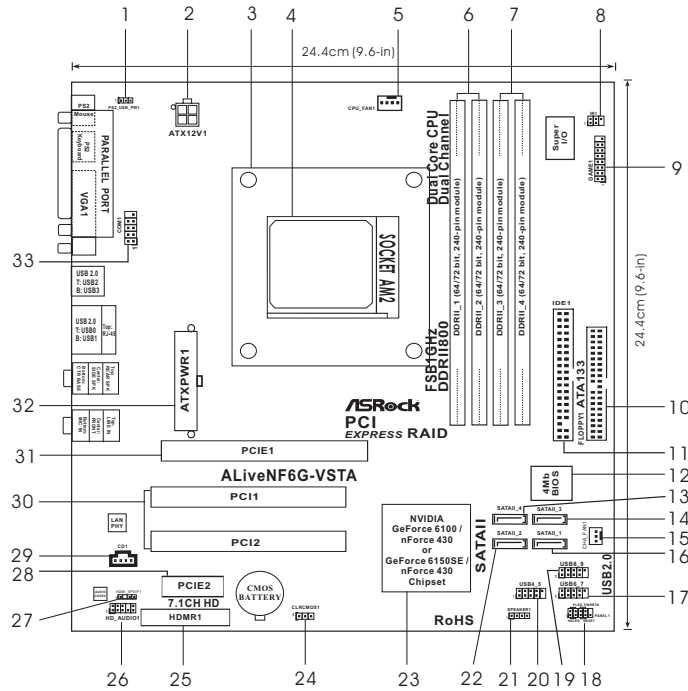
\* If you plan to use external graphics card on this motherboard, please refer to Premium Discrete requirement at <http://www.asrock.com>

## 1.4 Motherboard Layout (ALiveNF6G-DVI)



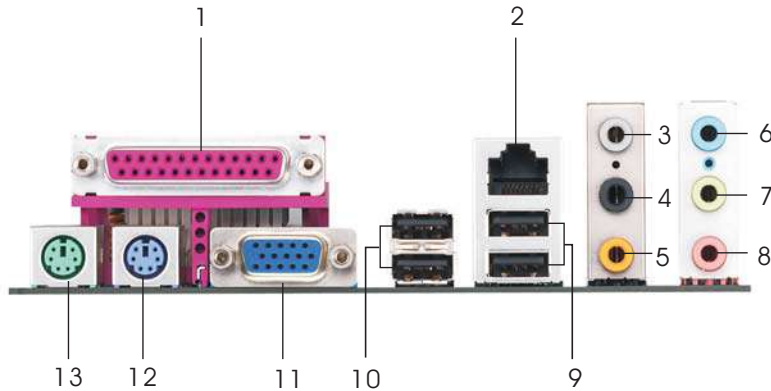
- |    |  |    |  |
|----|--|----|--|
| 1  | PS2_USB_PW1 Jumper   | 17 | USB 2.0 Header (USB6_7, Blue)              |
| 2  | ATX 12V Power Connector (ATX12V1)  | 18 | System Panel Header (PANEL1)               |
| 3  | CPU Heatsink Retention Module  | 19 | USB 2.0 Header (USB8_9, Blue)              |
| 4  | AM2 940-Pin CPU Socket   | 20 | USB 2.0 Header (USB4_5, Blue)              |
| 5  | CPU Fan Connector (CPU_FAN1)   | 21 | Chassis Speaker Header (SPEAKER 1)         |
| 6  | 2 x 240-pin DDRII DIMM Slots<br>(Dual Channel A: DDRII_1, DDRII_2; Yellow) | 22 | Secondary SATAII Connector (SATAII_2, Red) |
| 7  | 2 x 240-pin DDRII DIMM Slots<br>(Dual Channel B: DDRII_3, DDRII_4; Orange) | 23 | NVIDIA Single Chip                         |
| 8  | Infrared Module Header (IR1)   | 24 | Clear CMOS Jumper (CLRCMOS1)               |
| 9  | Game Port Header (GAME1)   | 25 | HDMR Slot (HDMR1)                          |
| 10 | Floppy Connector (FLOPPY1)   | 26 | Front Panel Audio Header (HD_AUDIO1)       |
| 11 | Primary IDE Connector (IDE1, Blue)   | 27 | HDMI_SPDIF Header (HDMI_SPDIF1)            |
| 12 | Flash Memory   | 28 | PCI Express x1 Slot (PCIE2)                |
| 13 | Fourth SATAII Connector (SATAII_4, Red)                                    | 29 | Internal Audio Connector: CD1 (Black)      |
| 14 | Third SATAII Connector (SATAII_3, Red)                                     | 30 | PCI Slots (PCI1- 2)                        |
| 15 | Chassis Fan Connector (CHA_FAN1)   | 31 | PCI Express x16 Slot (PCIE1)               |
| 16 | Primary SATAII Connector (SATAII_1, Red)                                   | 32 | ATX Power Connector (ATXPWR1)              |
|    |  | 33 | Serial Port Connector (COM1)               |

## 1.5 Motherboard Layout (ALiveNF6G-VSTA)



- |    |  |    |  |
|----|--|----|--|
| 1  | PS2_USB_PW1 Jumper   | 17 | USB 2.0 Header (USB6_7, Blue)              |
| 2  | ATX 12V Power Connector (ATX12V1)  | 18 | System Panel Header (PANEL1)               |
| 3  | CPU Heatsink Retention Module  | 19 | USB 2.0 Header (USB8_9, Blue)              |
| 4  | AM2 940-Pin CPU Socket   | 20 | USB 2.0 Header (USB4_5, Blue)              |
| 5  | CPU Fan Connector (CPU_FAN1)   | 21 | Chassis Speaker Header (SPEAKER 1)         |
| 6  | 2 x 240-pin DDRII DIMM Slots<br>(Dual Channel A: DDRII_1, DDRII_2; Yellow) | 22 | Secondary SATAII Connector (SATAII_2, Red) |
| 7  | 2 x 240-pin DDRII DIMM Slots<br>(Dual Channel B: DDRII_3, DDRII_4; Orange) | 23 | NVIDIA Single Chip                         |
| 8  | Infrared Module Header (IR1)   | 24 | Clear CMOS Jumper (CLRCMOS1)               |
| 9  | Game Port Header (GAME1)   | 25 | HDMR Slot (HDMR1)                          |
| 10 | Floppy Connector (FLOPPY1)   | 26 | Front Panel Audio Header (HD_AUDIO1)       |
| 11 | Primary IDE Connector (IDE1, Blue)   | 27 | HDMI_SPDIF Header (HDMI_SPDIF1)            |
| 12 | Flash Memory   | 28 | PCI Express x1 Slot (PCI2)                 |
| 13 | Fourth SATAII Connector (SATAII_4, Red)                                    | 29 | Internal Audio Connector: CD1 (Black)      |
| 14 | Third SATAII Connector (SATAII_3, Red)                                     | 30 | PCI Slots (PCI1-2)                         |
| 15 | Chassis Fan Connector (CHA_FAN1)   | 31 | PCI Express x16 Slot (PCI1)                |
| 16 | Primary SATAII Connector (SATAII_1, Red)                                   | 32 | ATX Power Connector (ATXPWR1)              |
|    |  | 33 | Serial Port Connector (COM1)               |

## 1.6 HD 8CH I/O (ALiveNF6G-DVI / ALiveNF6G-VSTA)




- |                           |                                |
|---------------------------|--------------------------------|
| 1 Parallel Port           | 8 Microphone (Pink)            |
| 2 RJ-45 Port              | 9 USB 2.0 Ports (USB01)        |
| 3 Side Speaker (Gray)     | 10 USB 2.0 Ports (USB23)       |
| 4 Rear Speaker (Black)    | 11 VGA Port                    |
| 5 Central / Bass (Orange) | 12 PS/2 Keyboard Port (Purple) |
| 6 Line In (Light Blue)    | 13 PS/2 Mouse Port (Green)     |
| *7 Front Speaker (Lime)   |                                |

\* If you use 2-channel speaker, please connect the speaker's plug into "Front Speaker Jack". See the table below for connection details in accordance with the type of speaker you use.

**TABLE for Audio Output Connection**

Audio Output Channels	Front Speaker (No. 7)	Rear Speaker (No. 4)	Central / Bass (No. 5)	Side Speaker (No. 3)
2	V	--	--	--
4	V	V	--	--
6	V	V	V	--
8	V	V	V	V

\* To enable Multi-Streaming function, you need to connect a front panel audio cable to the front panel audio header. 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", "4CH", "6CH", or "8CH" and then you are allowed to select "Realtek HDA Primary output" to use Rear Speaker, Central/Bass, and Front Speaker, or select "Realtek HDA Audio 2nd output" to use front panel audio.

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## 2. Installation

This is a Micro ATX form factor (9.6-in x 9.6-in, 24.4 cm x 24.4 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. Unplug the power cord from the wall socket before touching any component.
2. 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.
3. Hold components by the edges and do not touch the ICs.
4. Whenever you uninstall any component, place it on a grounded anti-static pad or in the bag that comes with the component.
5. 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.

## 2.1 CPU Installation

- Step 1. Unlock the socket by lifting the lever up to a 90° angle.
- Step 2. Position the CPU directly above the socket such that the CPU corner with the golden triangle matches the socket corner with a small triangle.
- Step 3. Carefully insert the CPU into the socket until it fits in place.

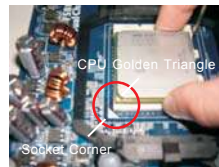


The CPU fits only in one correct orientation. DO NOT force the CPU into the socket to avoid bending of the pins.

- 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.



**STEP 1:**  
Lift Up The Socket Lever



**STEP 2 / STEP 3:**  
Match The CPU Golden Triangle  
To The Socket Corner



**STEP 4:**  
Push Down And Lock  
The Socket Lever

## 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 / 11, No. 5). For proper installation, please kindly refer to the instruction manuals of the CPU fan and the heatsink.

## 2.3 Installation of Memory Modules (DIMM)

This motherboard provides four 240-pin DDRII (Double Data Rate II) DIMM slots, and supports Dual Channel Memory Technology. For dual channel configuration, you always need to install **identical** (the same brand, speed, size and chip-type) DDRII DIMM pair in the slots of the same color. In other words, you have to install **identical** DDRII DIMM pair in **Dual Channel A** (DDRII\_1 and DDRII\_2; Yellow slots; see p.10/p.11 No.6) or **identical** DDRII DIMM pair in **Dual Channel B** (DDRII\_3 and DDRII\_4; Orange slots; see p.10/p.11 No.7), so that Dual Channel Memory Technology can be activated. This motherboard also allows you to install four DDRII DIMMs for dual channel configuration, and please install **identical** DDRII DIMMs in all four slots. You may refer to the Dual Channel Memory Configuration Table below.

**Dual Channel Memory Configurations**

	DDRII_1 (Yellow Slot)	DDRII_2 (Yellow Slot)	DDRII_3 (Orange Slot)	DDRII_4 (Orange Slot)
(1)	Populated	Populated	-	-
(2)	-	-	Populated	Populated
(3)*	Populated	Populated	Populated	Populated

\* For the configuration (3), please install **identical** DDRII DIMMs in all four slots.



1. If you want to install two memory modules, for optimal compatibility and reliability, it is recommended to install them in the slots of the same color. In other words, install them either in the set of yellow slots (DDRII\_1 and DDRII\_2), or in the set of orange slots (DDRII\_3 and DDRII\_4).
2. If only one memory module or three memory modules are installed in the DDRII DIMM slots on this motherboard, it is unable to activate the Dual Channel Memory Technology.
3. If a pair of memory modules is NOT installed in the same Dual Channel, for example, installing a pair of memory modules in DDRII\_1 and DDRII\_3, it is unable to activate the Dual Channel Memory Technology .
4. It is not allowed to install a DDR memory module into DDRII slot; otherwise, this motherboard and DIMM may be damaged.

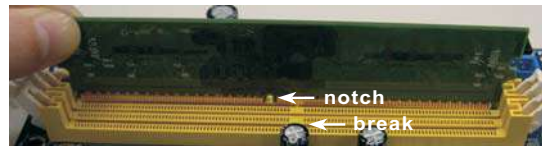
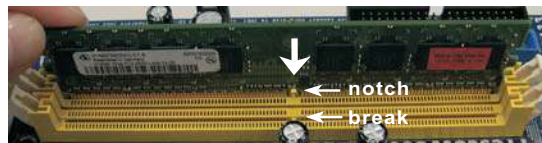
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## Installing a DIMM



Please make sure to disconnect power supply before adding or removing DIMMs or the system components.

- Step 1. Unlock a DIMM slot by pressing the retaining clips outward.
- Step 2. Align a DIMM on the slot such that the notch on the DIMM matches the break on the slot.



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.



---

## 2.4 Expansion Slots (PCI, HDMR and PCI Express Slots)

There are 2 PCI slots, 1 HDMR slot 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.

**HDMR slot:** HDMR slot is used to insert a HDMR card (optional) with v.92 Modem functionality. The HDMR slot is shared with PCIE2 slot; you can only choose either PCIE2 slot or HDMR slot to use.

**PCIE Slots:** PCIE1 (PCIE x16 slot) is used for PCI Express cards with x16 lane width graphics cards or ASRock DVI Graphics-SI card (***ALiveNF6G-DVI***).

PCIE2 (PCIE x1 slot) is used for PCI Express cards with x1 lane width cards, such as Gigabit LAN card, SATA2 card, etc.



You can only choose either PCI Express VGA card or DVI Graphics-SI card to install to PCIE1 (PCIE x16 slot) on ***ALiveNF6G-DVI*** motherboard.

### 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.
- Step 2. Remove the bracket facing the slot that you intend to use. Keep the screws for later use.
- Step 3. Align the card connector with the slot and press firmly until the card is completely seated on the slot.
- Step 4. Fasten the card to the chassis with screws.

---

## 2.5 Easy Dual Monitor Feature (ALiveNF6G-DVI)

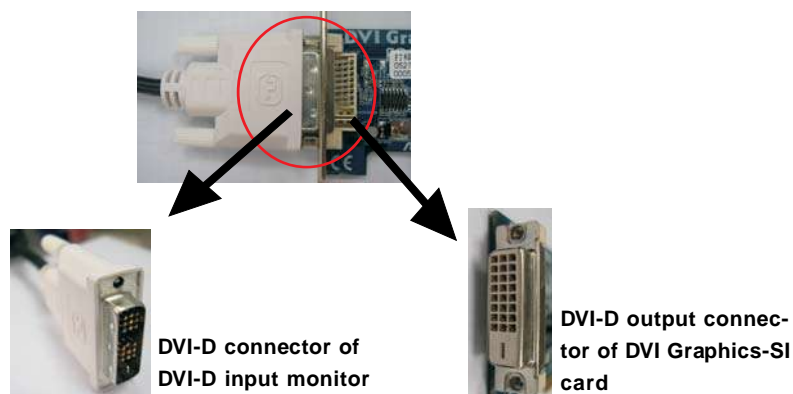
This motherboard supports Dual Monitor feature. With the onboard VGA/D-Sub output and the external installation of our DVI Graphics-SI card, this motherboard provides users with dual VGA output support: DVI-D and D-Sub ports. You can easily enjoy the benefits of dual VGA output support by connecting the D-Sub input monitor to the VGA/D-Sub port on the I/O panel and connecting the DVI-D input monitor to our DVI Graphics-SI card inserted to PCIE1 (PCIE x16 slot) on this motherboard. Besides, this motherboard provides independent display controllers for DVI-D and D-Sub ports to support dual VGA output so that DVI-D and D-sub ports can drive same or different display contents. To enjoy Dual Monitor feature, please refer to the below procedures for proper installation of DVI Graphics-SI card in advance.

- Step 1. Install the DVI Graphics-SI card to PCIE1 (PCIE x16 slot). Please refer to the expansion card installation procedures on page 17 for details.

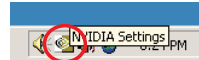


DVI Graphics-SI card

- Step 2. Connect the DVI-D connector of DVI-D input monitor to the DVI-D output connector of DVI Graphics-SI card which is inserted to PCIE1 (PCIE x16 slot) on this motherboard.



- 
- Step 3. Connect the D-Sub input monitor cable to the VGA/D-Sub port on the I/O panel of this motherboard.
- Step 4. If you have installed NVIDIA® VGA driver from our support CD to your system already, you can freely enjoy the benefits of DVI-D output function with this motherboard after your system boots. If you haven't installed NVIDIA® VGA driver yet, please install NVIDIA® VGA driver from our support CD to your system and restart your computer. Then you can start to use DVI-D output function with this motherboard.
- Step 5. Right click the "NVIDIA Settings" icon on the desktop to adjust the display mode you plan to use by following the instructions shown on the "NVIDIA Settings" screen. You are allowed to choose same or different display contents shown on the two monitors you install.



**Independent display controllers for DVI-D and D-Sub ports to support dual VGA output: DVI-D and D-sub ports can drive same or different display contents**

---

## 2.6 Easy Multi Monitor Feature (ALiveNF6G-DVI / ALiveNF6G-VSTA)

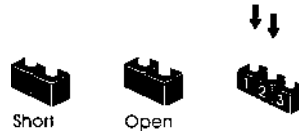
This motherboard supports Multi Monitor upgrade. With the internal onboard VGA and the external add-on PCI Express VGA card, you can easily enjoy the benefits of Multi Monitor feature. Please refer to the following steps to set up a multi monitor environment:

1. Install the NVIDIA® PCI Express VGA card to PCIE1 (PCIE x16 slot). Please refer to page 17 for proper expansion card installation procedures for details.
2. Connect the D-Sub input monitor cable to the VGA/D-Sub port on the I/O panel of this motherboard. Connect another D-Sub input monitor cable to the VGA/D-Sub connector of the add-on PCI Express VGA card. Connect the DVI-D input 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. 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. (The item names and operation procedures described in this step are under Windows® XP environment. If you install other Windows® OS, the item names and operation procedures may be similar.)
  - 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.

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.

## 2.7 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	Setting	
PS2_USB_PW1 (see p.10/p.11, No. 1)		Short pin2, pin3 to enable +5VSB (standby) for PS/2 or USB wake up events.

Note: To select +5VSB, it requires 2 Amp and higher standby current provided by power supply.

Clear CMOS Jumper (CLR CMOS1) (see p.10/p.11, No. 24)	
---	--

Note: CLR CMOS1 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 CLR CMOS1 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.

## 2.8 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/p.11 No. 10)



↑  
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/p.11 No. 11)



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.

### Serial ATAII Connectors

(SATAII\_1: see p.10/p.11, No. 16)

(SATAII\_2: see p.10/p.11, No. 22)

(SATAII\_3: see p.10/p.11, No. 14)

(SATAII\_4: see p.10/p.11, No. 13)



SATAII\_4



SATAII\_3



SATAII\_2



SATAII\_1

These four Serial ATAII (SATAII) connectors support SATAII or SATA hard disk for internal storage devices. The current SATAII interface allows up to 3.0 Gb/s data transfer rate.

### Serial ATA (SATA)

Data Cable

(Optional)



Either end of the SATA data cable can be connected to the SATA / SATAII hard disk or the SATAII connector on the motherboard.

### Serial ATA (SATA)

Power Cable

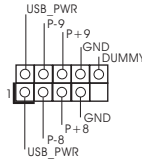
(Optional)



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.

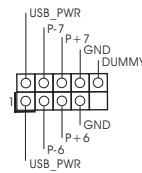
### USB 2.0 Headers

(9-pin USB8\_9)  
(see p.10/p.11 No. 19)

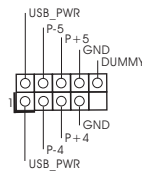


Besides four default USB 2.0 ports on the I/O panel, there are three USB 2.0 headers on this motherboard. Each USB 2.0 header can support two USB 2.0 ports.

(9-pin USB6\_7)  
(see p.10/p.11 No. 17)

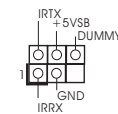


(9-pin USB4\_5)  
(see p.10/p.11 No. 20)



### Infrared Module Header

(5-pin IR1)  
(see p.10/p.11 No. 8)



This header supports an optional wireless transmitting and receiving infrared module.

### Internal Audio Connectors

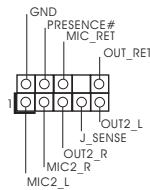
(4-pin CD1)  
(CD1: see p.10/p.11 No. 29)



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.

### Front Panel Audio Header


(9-pin HD\_AUDIO1)  
(see p.10/p.11, No. 26)



This is an interface for the front panel audio cable that allows convenient connection and control of audio devices.

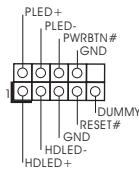


1. High Definition Audio supports Jack Sensing, but the panel wire on the chassis must support HDA to function correctly. Please follow the instruction in our manual and chassis manual to install your system.
2. If you use AC'97 audio panel, please install it to the front panel audio header as below:
  - A. Connect Mic\_IN (MIC) to MIC2\_L.
  - B. Connect Audio\_R (RIN) to OUT2\_R and Audio\_L (LIN) to OUT2\_L.

- C. Connect Ground (GND) to Ground (GND).
- D. MIC\_RET and OUT\_RET are for HD audio panel only. You don't need to connect them for AC'97 audio panel.
- E. Enter BIOS Setup Utility. Enter Advanced Settings, and then select Chipset Configuration. Set the Front Panel Control option from [Auto] to [Enabled].
- F. Enter Windows system. Click the icon on the lower right hand taskbar to enter Realtek HD Audio Manager. Click "Audio I/O", select "Connector Settings" , choose "Disable front panel jack detection", and save the change by clicking "OK".

**System Panel Header**

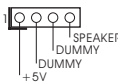
(9-pin PANEL1)  
(see p.10/p.11 No. 18)



This header accommodates several system front panel functions.

**Chassis Speaker Header**

(4-pin SPEAKER 1)  
(see p.10/p.11 No. 21)



Please connect the chassis speaker to this header.

**Chassis Fan Connector**

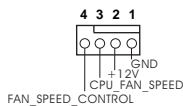
(3-pin CHA\_FAN1)  
(see p.10/p.11 No. 15)



Please connect a chassis fan cable to this connector and match the black wire to the ground pin.

**CPU Fan Connector**

(4-pin CPU\_FAN1)  
(see p.10/p.11 No. 5)

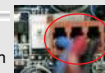


Please connect the CPU fan cable to this connector and match the black wire to the ground pin.



Though this motherboard provides 4-Pin CPU fan (Quiet Fan) support, the 3-Pin CPU fan still can work successfully even without the fan speed control function. If you plan to connect the 3-Pin CPU fan to the CPU fan connector on this motherboard, please connect it to Pin 1-3.

**Pin 1-3 Connected** ←



3-Pin Fan Installation

**ATX Power Connector**

(20-pin ATXPWR1)  
(see p.10/p.11 No. 32)



Please connect an ATX power supply to this connector.



### ATX 12V Power Connector

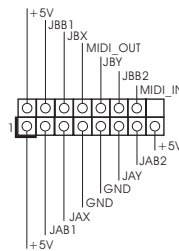
(4-pin ATX12V1)  
(see p.10/p.11 No. 2)



Please note that it is necessary to connect a power supply with ATX 12V plug to this connector. Failing to do so will cause power up failure.

### Game Port Header

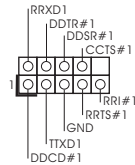
(15-pin GAME1)  
(see p.10/p.11 No. 9)



Connect a Game cable to this header if the Game port bracket is installed.

### Serial port Header

(9-pin COM1)  
(see p.10/p.11 No.33)



This COM1 header supports a serial port module.

### HDMI\_SPDIF Header

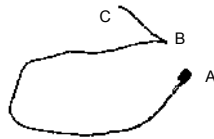
(3-pin HDMI\_SPDIF1)  
(see p.10/p.11 No. 27)



HDMI\_SPDIF header, providing SPDIF audio output to HDMI VGA card, allows the system to connect HDMI Digital TV/projector/LCD devices. Please connect the HDMI\_SPDIF connector of HDMI VGA card to this header.

### HDMI\_SPDIF Cable

(Optional)

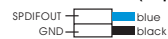


Please connect the black end (A) of HDMI\_SPDIF cable to the HDMI\_SPDIF header on the motherboard. Then connect the white end (B or C) of HDMI\_SPDIF cable to the HDMI\_SPDIF connector of HDMI VGA card.

#### A. black end



#### B. white end (2-pin)



#### C. white end (3-pin)



## 2.9 HDMI\_SPDIF Header Connection Guide

HDMI (High-Definition Multi-media Interface) is an all-digital audio/video specification, which provides an interface between any compatible digital audio/video source, such as a set-top box, DVD player, A/V receiver and a compatible digital audio or video monitor, such as a digital television (DTV). A complete HDMI system requires a HDMI VGA card and a HDMI ready motherboard with a HDMI\_SPDIF header. This motherboard is equipped with a HDMI\_SPDIF header, which provides SPDIF audio output to HDMI VGA card, allows the system to connect HDMI Digital TV/projector/LCD devices. To use HDMI function on this motherboard, please carefully follow the below steps.

Step 1. Install the HDMI VGA card to the PCI Express Graphics slot on this motherboard. For the proper installation of HDMI VGA card, please refer to the installation guide on page 17.

Step 2. Connect the black end (A) of HDMI\_SPDIF cable to the HDMI\_SPDIF header (HDMI\_SPDIF1, yellow, see page 10 / 11, No. 27) on the motherboard.



Make sure to correctly connect the HDMI\_SPDIF cable to the motherboard and the HDMI VGA card according to the same pin definition. For the pin definition of HDMI\_SPDIF header and HDMI\_SPDIF cable connectors, please refer to page 25. For the pin definition of HDMI\_SPDIF connectors on HDMI VGA card, please refer to the user manual of HDMI VGA card vendor. Incorrect connection may cause permanent damage to this motherboard and the HDMI VGA card.

Step 3. Connect the white end (B or C) of HDMI\_SPDIF cable to the HDMI\_SPDIF connector of HDMI VGA card. (There are two white ends (2-pin and 3-pin) on HDMI\_SPDIF cable. Please choose the appropriate white end according to the HDMI\_SPDIF connector of the HDMI VGA card you install.



white end  
(2-pin) (B)



white end  
(3-pin) (C)



Please do not connect the white end of HDMI\_SPDIF cable to the wrong connector of HDMI VGA card or other VGA card. Otherwise, the motherboard and the VGA card may be damaged. For example, this picture shows the wrong example of connecting HDMI\_SPDIF cable to the fan connector of PCI Express VGA card. Please refer to the VGA card user manual for connector usage in advance.



Step 4. Connect the HDMI output connector on HDMI VGA card to HDMI device, such as HDTV. Please refer to the user manual of HDTV and HDMI VGA card vendor for detailed connection procedures.

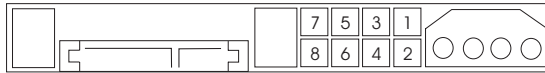


Step 5. Install HDMI VGA card driver to your system.

## 2.10 SATAII Hard Disk Setup Guide

Before installing SATAII hard disk to your computer, please carefully read below SATAII hard disk setup guide. Some default setting of SATAII hard disks may not be at SATAII mode, which operate with the best performance. In order to enable SATAII function, please follow the below instruction with different vendors to correctly adjust your SATAII hard disk to SATAII mode in advance; otherwise, your SATAII hard disk may fail to run at SATAII mode.

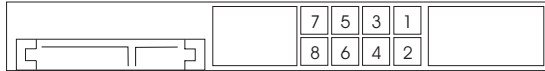
### Western Digital



If pin 5 and pin 6 are shorted, SATA 1.5Gb/s will be enabled.

On the other hand, if you want to enable SATAII 3.0Gb/s, please remove the jumpers from pin 5 and pin 6.

### SAMSUNG



If pin 3 and pin 4 are shorted, SATA 1.5Gb/s will be enabled.

On the other hand, if you want to enable SATAII 3.0Gb/s, please remove the jumpers from pin 3 and pin 4.

### HITACHI

Please use the Feature Tool, a DOS-bootable tool, for changing various ATA features. Please visit HITACHI's website for details:

<http://www.hitachigst.com/hdd/support/download.htm>



The above examples are just for your reference. For different SATAII hard disk products of different vendors, the jumper pin setting methods may not be the same. Please visit the vendors' website for the updates.

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## 2.11 Serial ATA (SATA) / Serial ATAII (SATAII) Hard Disks Installation

This motherboard adopts NVIDIA® GeForce 6100 / nForce 430 or GeForce 6150SE / nForce 430 chipset that supports Serial ATA (SATA) / Serial ATAII (SATAII) hard disks and RAID functions. You may install SATA / SATAII hard disks on this motherboard for internal storage devices. This section will guide you to install the SATA / SATAII hard disks.

- STEP 1: Install the SATA / SATAII hard disks into the drive bays of your chassis.  
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.

## 2.12 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 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.

## 2.13 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.

---

## 2.14 HDMR Card and Driver Installation

If you do not insert HDMR card to this motherboard, and you finish installing all drivers to your system now, but in the future, you plan to use HDMR card function on this motherboard, please follow the steps below then.

1. Insert HDMR card to HDMR slot on this motherboard. Please make sure that the HDMR card is completely seated on the slot.
2. Install HDMR card driver from our support CD to your system.
3. Reboot your system.

## 2.15 Installing Windows® 2000 / XP / XP 64-bit / Vista™ / Vista™ 64-bit Without RAID Functions



The installation procedures for Windows® Vista™ / Vista™ 64-bit are subject to change. Please visit our website for the updates of Windows® Vista™ / Vista™ 64-bit driver and related information in the future.

If you just want to install Windows® 2000, Windows® XP, Windows® XP 64-bit, Windows® Vista™ or Windows® Vista™ 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® Vista™ or Windows® Vista™ 64-bit on your system directly.

## 2.16 Installing Windows® 2000 / XP / XP 64-bit / Vista™ / Vista™ 64-bit With RAID Functions

If you want to install Windows® 2000, Windows® XP, Windows® XP 64-bit, Windows® Vista™ or Windows® Vista™ 64-bit OS on your SATA / SATAII HDDs with RAID functions, please follow below procedures according to the OS you install.



1. The installation procedures for Windows® Vista™ / Vista™ 64-bit are subject to change. Please visit our website for the updates of Windows® Vista™ / Vista™ 64-bit driver and related information in the future.
2. 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\\_fm4y](http://www.microsoft.com/Windows2000/downloads/servicepacks/sp4/spdeploy.htm#the_integrated_installation_fm4y)

### 2.16.1 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 CD-ROM as the boot device.
- C. When you see the message on the screen, "Generate Serial ATA driver diskette [Y/N]?", press <Y>.
- D. 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:

.. \ RAID Installation Guide

#### STEP 4: Install Windows® 2000 / Windows® XP / Windows® XP-64bit OS on your system.

After step1, 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

## 2.16.2 Installing Windows® Vista™ / Vista™ 64-bit With 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 → IDE Configuration.
- B. Set the “SATA Operation Mode” option to [RAID].

### 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

## 2.17 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 8 for the possible overclocking risk before you apply Untied Overclocking Technology.

---

## 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 screen has a menu bar with the following selections:

- Main**            To set up the system time/date information
- Advanced**      To set up the advanced BIOS features
- H/W Monitor**   To display current hardware status
- Boot**            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.



### 3.1.2 Navigation Keys

Please check the following table for the function description of each navigation key.

Navigation Key(s)	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
<Enter>	To bring up the selected screen
<F1>	To display the General Help Screen
<F9>	To load optimal default values for all the settings
<F10>	To save changes and exit the BIOS SETUP UTILITY
<ESC>	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.

#### ALiveNF6G-DVI

BIOS SETUP UTILITY	
Main	Advanced H/W Monitor Boot Security Exit
<b>System Overview</b>	
System Time	[ 7:00:09 ]
System Date	[ Wed 07/12/2006 ]
BIOS Version	: ALiveNF6G-DVI BIOS P1.0
Processor Type	: AMD Athlon(tm) 64 Processor 3400+ (64bit supported)
Processor Speed	: 2200 MHz
Microcode Update	: F7A/3A
L1 Cache Size	: 128KB
L2 Cache Size	: 512KB
Total Memory	: 512MB with 64MB shared memory Dual-Channel Memory Mode
DDR II 1	: 256MB/266MHz (DDR II533)
DDR II 2	: 256MB/266MHz (DDR II533)
DDR II 3	: None
DDR II 4	: None
Use [Enter], [TAB] or [SHIFT-TAB] to select a field.	
Use [+] or [-] to configure system Time.	
--	Select Screen
↑↓	Select Item
+/-	Change Field
Tab	Select Field
F1	General Help
F9	Load Defaults
F10	Save and Exit
ESC	Exit
v02.54 (C) Copyright 1985-2003, American Megatrends, Inc.	

## ALiveNF6G-VSTA

BIOS SETUP UTILITY					
Main	Advanced	H/W Monitor	Boot	Security	Exit
<b>System Overview</b>		Use [Enter], [TAB] or [SHIFT-TAB] to select a field.			
System Time	[17:00:09]	Use [+] or [-] to configure system Time.			
System Date	[Wed 07/12/2006]				
BIOS Version	: ALiveNF6G-VSTA BIOS P1.0				
Processor Type	: AMD Athlon(tm) 64 Processor 3400+ (64bit supported)				
Processor Speed	: 2200 MHz				
Microcode Update	: F7A/3A				
L1 Cache Size	: 128KB	-- Select Screen			
L2 Cache Size	: 512KB	F1 Select Item			
Total Memory	: 512MB with 64MB shared memory	+- Change Field			
	Dual-Channel Memory Mode	Tab Select Field			
DDRII 1	: 256MB/266MHz (DDRII533)	F1 General Help			
DDRII 2	: 256MB/266MHz (DDRII533)	F9 Load Defaults			
DDRII 3	: None	F10 Save and Exit			
DDRII 4	: None	ESC 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.

## 3.3 Advanced Screen

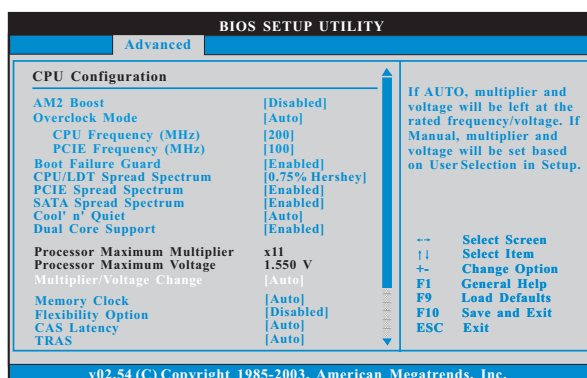
In this section, you may set the configurations for the following items: CPU Configuration, Chipset Configuration, ACPI Configuration, IDE Configuration, PCIPnP Configuration, Floppy Configuration, SuperIO Configuration, and USB Configuration.

BIOS SETUP UTILITY					
Main	Advanced	H/W Monitor	Boot	Security	Exit
<b>Advanced Settings</b>		<b>Options for CPU</b>			
WARNING: Setting wrong values in below sections may cause system to malfunction.					
<ul style="list-style-type: none"> <li>▶ CPU Configuration</li> <li>▶ Chipset Configuration</li> <li>▶ ACPI Configuration</li> <li>▶ IDE Configuration</li> <li>▶ PCIPnP Configuration</li> <li>▶ Floppy Configuration</li> <li>▶ SuperIO Configuration</li> <li>▶ USB Configuration</li> </ul>		<ul style="list-style-type: none"> <li>-- Select Screen</li> <li>F1 Select Item</li> <li>Enter Go to Sub Screen</li> <li>F1 General Help</li> <li>F9 Load Defaults</li> <li>F10 Save and Exit</li> <li>ESC Exit</li> </ul>			
v02.54 (C) Copyright 1985-2003, American Megatrends, Inc.					



Setting wrong values in this section may cause the system to malfunction.

### 3.3.1 CPU Configuration



#### 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 8 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. The default value is [200].

#### PCIE Frequency (MHz)

Use this option to adjust PCIE frequency. The default value is [100].

#### Boot Failure Guard

Enable or disable the feature of Boot Failure Guard.

#### CPU/LDT Spread Spectrum

This feature will be set to [0.75% Hershey] as default. Configuration options: [Disabled], [0.5% Hershey], [0.75% Hershey], [0.5% Triangular], and [0.75% Triangular].

#### 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].

### 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 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.

### Dual Core Support

This item will show if you use Dual Core CPU. Configuration option: [Enabled], [Disabled]. The default value is [Enabled].

### Processor Maximum Multiplier

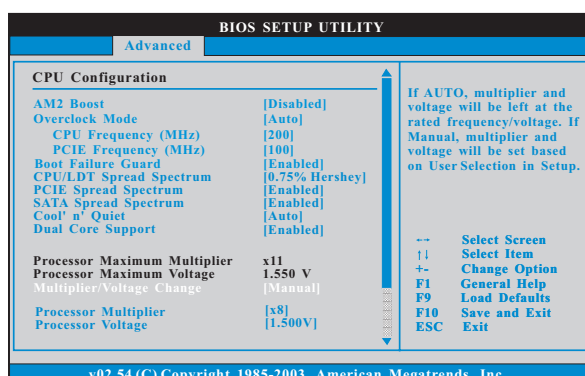
It will display Processor Maximum Multiplier for reference.

### 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.



### 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.

### **Memory Clock**

This item can be set by the code using [Auto]. You can set one of the standard values as listed: [200 MHz (DDRII 400)], [266 MHz (DDRII 533)], [333 MHz (DDRII 667)], and [400MHz (DDRII 800)].

### **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**

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].

### **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].

### **TRCD**

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

### **TRRD**

Use this to adjust TRRD values. Configuration options: [Auto], [2T], [3T], and [4T]. The default value is [Auto].

### **TRC**

Use this to adjust TRC values. Configuration options: [7T] to [22T]. 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].

### **Burst Length**

Burst length can be set to 8, 4 or 2 beats. 64 Bit Dq must use the 4 beats.

### **Bank Interleaving**

Interleaving allows memory accesses to be spread out over banks on the same node, or across nodes, decreasing access contention.

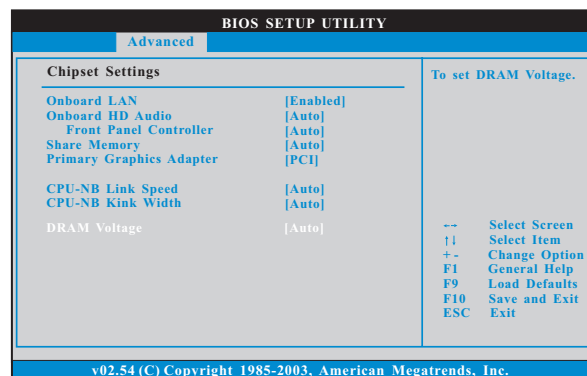
### Memory Hole

Use this item to enable or disable memory hole. The Default value is [Disabled].

### DDRII Initialization Mode

Configuration options: [Auto] and [Compatible]. The default value is [Auto].

## 3.3.2 Chipset Configuration



### 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 Control

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].

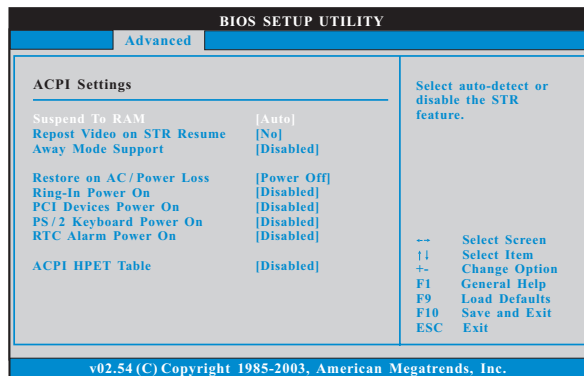
### CPU - NB Link Width

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], [Ultra High], [High], [Normal], and [Low]. The default value is [Auto].

### 3.3.3 ACPI Configuration



#### Suspend to RAM

Use this item to select whether to auto-detect or disable the Suspend-to-RAM 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.

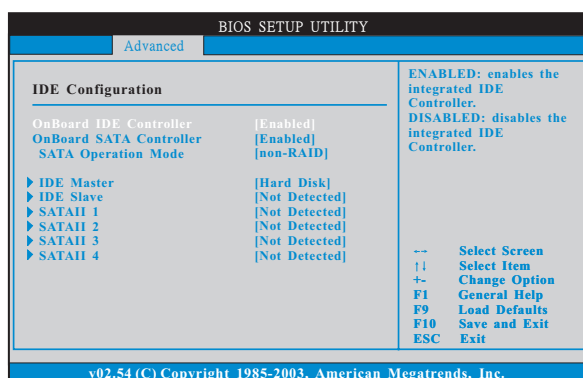
### RTC Alarm Power On

Use this item to enable or disable RTC (Real Time Clock) to power on the system.

### 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



### 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

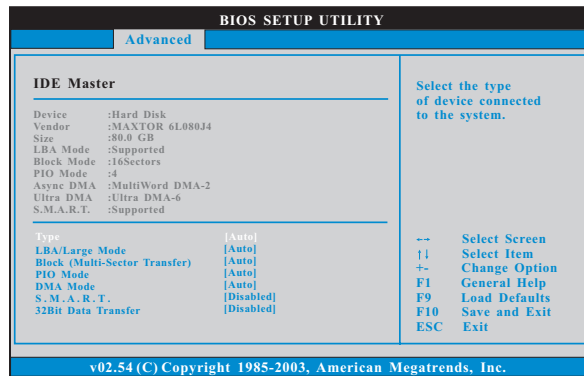
Use this item to adjust SATA Operation Mode. The default value of this option is [non-RAID]. If you want to operate RAID function on SATA / SATAII HDDs, please select [RAID].

\* 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.





## 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.

## 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.

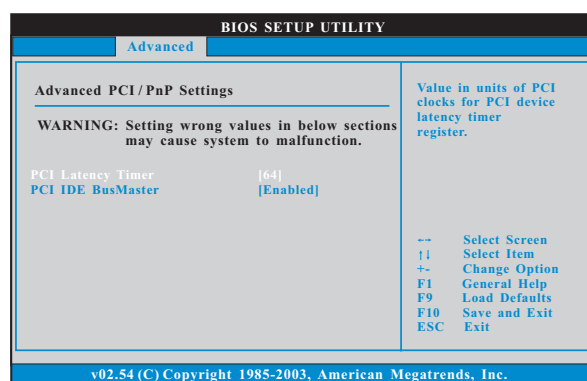
### S.M.A.R.T.

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



Setting wrong values in this section may cause the system to malfunction.

### PCI Latency Timer

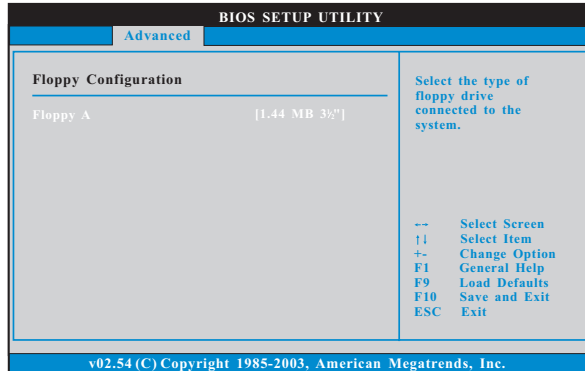
The default value is 32. It is recommended to keep the default value unless the installed PCI expansion cards' specifications require other settings.

### PCI IDE BusMaster

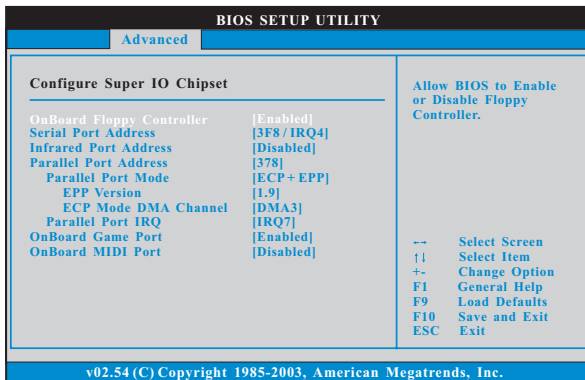
Use this item to enable or disable the PCI IDE BusMaster feature.

### 3.3.6 Floppy Configuration

In this section, you may configure the type of your floppy drive.



### 3.3.7 Super IO Configuration



#### 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].

### 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].

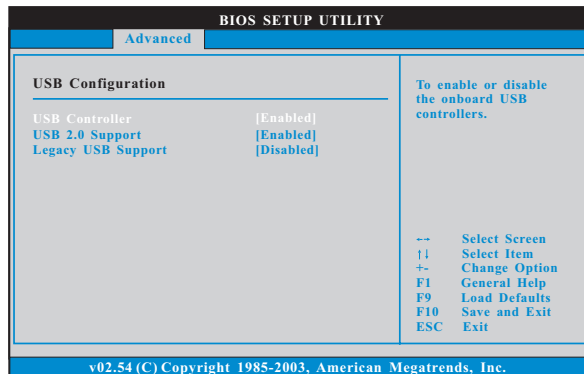
### OnBoard Game Port

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. Configuration options: [Disabled], [300], and [330].

## 3.3.8 USB Configuration



### 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.

### 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					
Main	Advanced	H/W Monitor	Boot	Security	Exit
<b>Hardware Health Event Monitoring</b>					
CPU Ambient Temperature	:	42°C / 107°F			
CPU Internal Temperature	:	52°C / 125°F			
M/B Temperature	:	31°C / 87°F			
CPU Fan Speed	:	2833 RPM			
Chassis Fan Speed	:	N/A			
Vcore	:	1.532 V			
+ 3.30V	:	3.129 V	-->	Select Screen	
+ 5.00V	:	4.877 V	↑↓	Select Item	
+ 12.00V	:	11.741 V	F1	General Help	
CPU Quiet Fan	:	[Disabled]	F9	Load Defaults	
			F10	Save and Exit	
			ESC	Exit	
v02.54 (C) Copyright 1985-2003, American Megatrends, Inc.					

### CPU Ambient Temperature

This item shows the temperature sensed by thermistor near CPU.

### CPU Internal Temperature

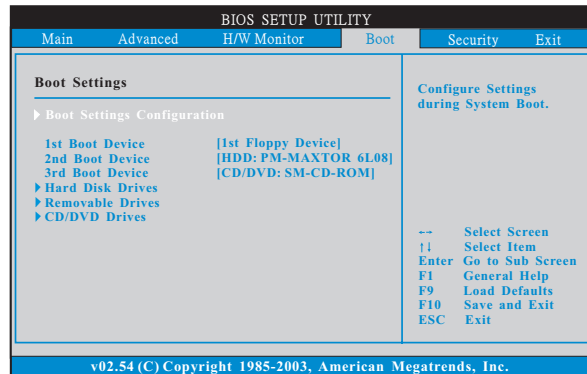
This item shows the temperature sensed by dual current source CPU.

### CPU Quiet Fan

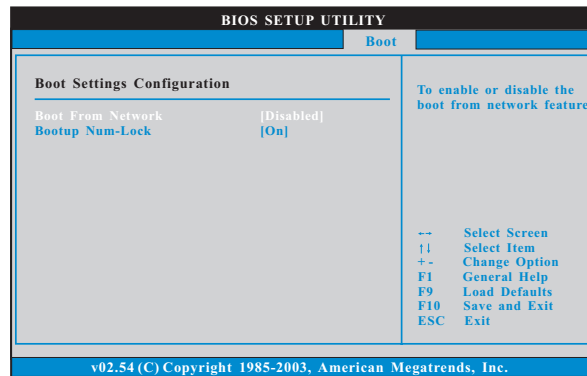
This item allows you to identify the temperature of CPU fan. Configuration options: [Disabled] and [Enabled]. The default value is [Disabled]. You are allowed to enable this function only when you install 4-pin CPU fan.

### 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.



#### 3.5.1 Boot Settings Configuration



##### Boot From Network

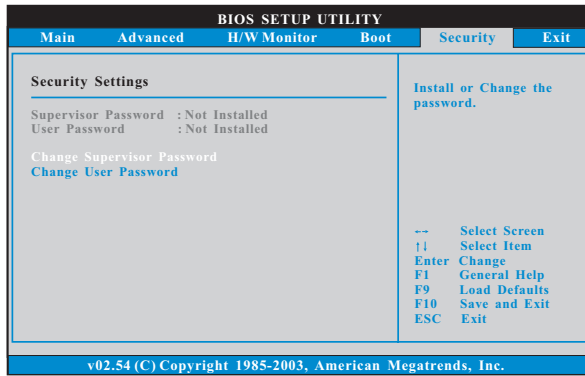
Use this item to enable or disable the Boot From Network feature.

##### Boot Up Num-Lock

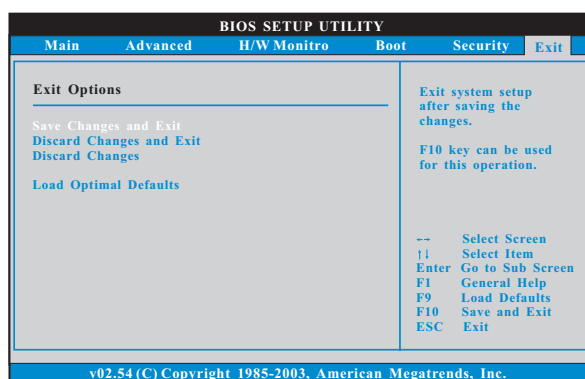
If this item is set to [On], it will automatically activate the Numeric Lock function after boot-up.

### 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.



### 3.7 Exit Screen



#### 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.



---

## **4. Software Support**

### **4.1 Install Operating System**

This motherboard supports various Microsoft® Windows® operating systems: 2000 / XP / XP 64-bit / Vista™ / Vista™ 64-bit. 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 if the system detects the installed devices. 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.

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## **APPENDIX:**

### **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. From the Windows® 2000/XP operating system, click the Start button. Select Settings, then Control Panel.
2. Switch to Classic View. (for Windows® XP only)
3. Double-click the Display icon in the Control Panel then select the Screen Saver tab.
4. Click the "Power..." button. The following dialog box appears.
5. From the Power schemes combo list box, select **Minimal Power Management**.
6. Click OK to implement settings.