



# 775Dual-915GV

## User Manual

Version 1.0

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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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## Chapter 1 Introduction

Thank you for purchasing ASRock 775Dual-915GV motherboard, a reliable motherboard produced under ASRock's consistently stringent quality control. It delivers excellent performance with robust design conforming to ASRock's commitment to quality and endurance. In this manual, chapter 1 and 2 contain introduction of the motherboard and step-by-step guide to the hardware installation. Chapter 3 and 4 contain the configuration guide to BIOS setup and information of the Support CD.



Because the motherboard specifications and the BIOS software might be updated, the content of this manual will be subject to change without notice. In case any modifications of this manual occur, the updated version will be available on ASRock website without further notice. You may find the latest memory and CPU support lists on ASRock website as well. ASRock website <http://www.asrock.com>

### 1.1 Package Contents

ASRock 775Dual-915GV Motherboard

(Micro ATX Form Factor: 9.6-in x 9.6-in, 24.4 cm x 24.4 cm)

ASRock 775Dual-915GV Quick Installation Guide

ASRock 775Dual-915GV Support CD

(including *LGA 775 CPU Installation Live Demo*)

One 80-conductor Ultra ATA 66/100 IDE Ribbon Cable

One Ribbon Cable for a 3.5-in Floppy Drive

One Serial ATA (SATA) Data Cable (Optional)

One Serial ATA (SATA) HDD Power Cable (Optional)

One ASRock 8CH I/O

One COM Port Bracket

One ASRock MR Card (Optional)

## 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>	- 775-Pin Socket supporting Intel® Pentium® 4 / Celeron® D processor (in 775-land LGA package) - FSB 800/533 MHz - Supports EM64T CPU - Supports Hyper-Threading Technology (see <b>CAUTION 1</b> )
<b>Chipset</b>	- Northbridge: Intel® 915GV chipset - Southbridge: Intel® ICH6
<b>Memory</b>	- Dual Channel DDR/DDRII Memory Technology (see <b>CAUTION 2</b> ) - 2 x DDR DIMM slots - Support DDR400/333 - Max. capacity: 2GB - 2 x DDRII DIMM slots - Support DDRII533 (see <b>CAUTION 3</b> ) - Max. capacity: 2GB
<b>Hybrid Booster</b>	- CPU Frequency Stepless Control (see <b>CAUTION 4</b> ) - ASRock U-COP (see <b>CAUTION 5</b> ) - Boot Failure Guard (B.F.G.)
<b>Expansion Slot</b>	- 2 x PCI slots - 1 x AGI [ASRock Graphics Interface] slot (see <b>CAUTION 6</b> ) - 1 x AGI Express slot (PCI Express x 4) for PCI Express x 16 graphics card (see <b>CAUTION 7</b> ) - 1 x AMR slot
<b>Graphics</b>	- Intel Graphics Media Accelerator 900 VGA - DirectX 9.0 VGA - Pixel Shader 2.0 - Max. shared memory 192MB (see <b>CAUTION 8</b> )
<b>Audio</b>	- Realtek ALC850 7.1 channel AC'97 audio codec
<b>LAN</b>	- Realtek PCI LAN 8100C - Speed: 10/100 Ethernet - Supports Wake-On-LAN
<b>Rear Panel I/O</b>	ASRock 8CH I/O - 1 x PS/2 Mouse - 1 x PS/2 Keyboard Port - 1 x VGA Port - 1 x Parallel Port (ECP/EPP Support) - 4 x Ready-to-Use USB 2.0 Ports

	<ul style="list-style-type: none"> <li>- 1 x RJ-45 Port</li> <li>- 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 ATA 1.5Gb/s connectors (No Support for "RAID" and "Hot Plug" functions)</li> <li>- 1 x ATA100 IDE connector (supports 2 x IDE devices)</li> <li>- 1 x Floppy connector</li> <li>- 1 x COM Port 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>- 2 x USB 2.0 headers (support 4 USB 2.0 ports) (see <b>CAUTION 10</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</li> </ul>
<b>Hardware Monitor</b>	<ul style="list-style-type: none"> <li>- CPU Temperature Sensing</li> <li>- Chassis Temperature Sensing</li> <li>- CPU Overheat Shutdown to Protect CPU Life</li> <li>- CPU Fan Tachometer</li> <li>- Chassis Fan Tachometer</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 compliant</li> </ul>
<b>Certifications</b>	<ul style="list-style-type: none"> <li>- FCC, CE, WHQL</li> </ul>

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### **CAUTION!**

1. About the setting of "Hyper Threading Technology", please check page 29.
2. 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 18 for proper installation.
3. This motherboard doesn't support 128Mbit DRAM Cell (128MB/8 cells; 256MB/16 cells).
4. 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.
5. 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.
6. The AGI [ASRock Graphics Interface] slot is a special design that only supports compatible AGP VGA cards. For the information of the compatible AGP VGA cards, please refer to the "Supported AGP VGA Card List for AGI Slot" on page 9 and page 10. For the proper installation of AGP VGA card, please refer to the installation guide on page 20.
7. For the information of the compatible PCI Express VGA cards, please refer to the "Supported PCI Express VGA Card List for AGI Express Slot (PCI Express x 4)" on page 11. For the proper installation of PCI Express VGA card, please refer to the installation guide on page 20.
8. The Max. shared memory of onboard VGA is controlled by Intel VGA driver. Installing different Intel VGA driver may vary its Max. shared memory capacity.
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 13 for proper connection.
10. Power Management for USB 2.0 works fine under Microsoft® Windows® XP SP1 or SP2 / 2000 SP4.



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### 1.3 Supported AGP VGA Card List for AGI Slot

(for Windows 2000/Windows XP)

#### I. AGP 4X

Graphics Chip Vendor	Model Name	Chipset Name
n-VIDIA	ASUS V8170 Ennyah G2 MX400	GeForce MX440SE GeForce 2 MX400
ATI	POWERCOLOR Radeon 9100	Radeon 9100

For the latest updates of the supported AGP VGA card list for AGI slot, please visit ASRock website for details.

ASRock website: <http://www.asrock.com/support/index.htm>

**II. AGP 8X**

Graphics Chip Vendor	Model Name	Chipset Name
n-VIDIA	ASUS V9480	GeForce 4 Ti4800SE
	ASUS V9570/TD	GeForce FX 5700
	ASUS V9950ULTRA	GeForce FX 5900 Ultra
	ASUS V9520-X/128M	GeForce FX 5200
	ASUS V9400MAGIC	GeForce 4 MX4000
	ALBATRON MX-480E	GeForce 4 MX440-8X
	ALBATRON FX5600P Turbo	GeForce FX 5600
	ELSA GLADIAC 518BL	GeForce 4 MX4000
	Ennyah GEFORCE FX5200 ULTRA	GeForce FX 5200 Ultra
	GIGABYTE GV-N66128DP	GeForce 6600
	GIGABYTE GV-N57L256D	GeForce FX 5700 LE
	LEADTEK WINFAST A340TDH	GeForce FX 5200
	LEADTEK WinFast A340/PROTD	GeForce FX 5500
	LEADTEK WinFast A360TD	GeForce FX 5600
	Leadtek WinFast A6600 GT TDH	GeForce 6600GT
	LEADTEK WinFast A400TDH	GeForce 6800
	MSI Ti4200-TD8X	GeForce 4 Ti4200
MIS FX5700-TD128	GeForce FX 5700	
ATI	ELSA FALCOX 920FX	Radeon 9200
	GECUBE Radeon 9250/128M	Radeon 9250
	POWERCOLOR Radeon 9200SE	Radeon 9200SE
	POWERCOLOR RADEON 9250/128M	Radeon 9250

For the latest updates of the supported AGP VGA card list for AGI slot, please visit ASRock website for details.

ASRock website: <http://www.asrock.com/support/index.htm>

Note. ATI 9600, 9550 series, and all Matrox series VGA cards are NOT supported with AGI.

## 1.4 Supported PCI Express VGA Card List for AGI Express Slot (PCI Express x 4)

(for Windows 2000/Windows XP)

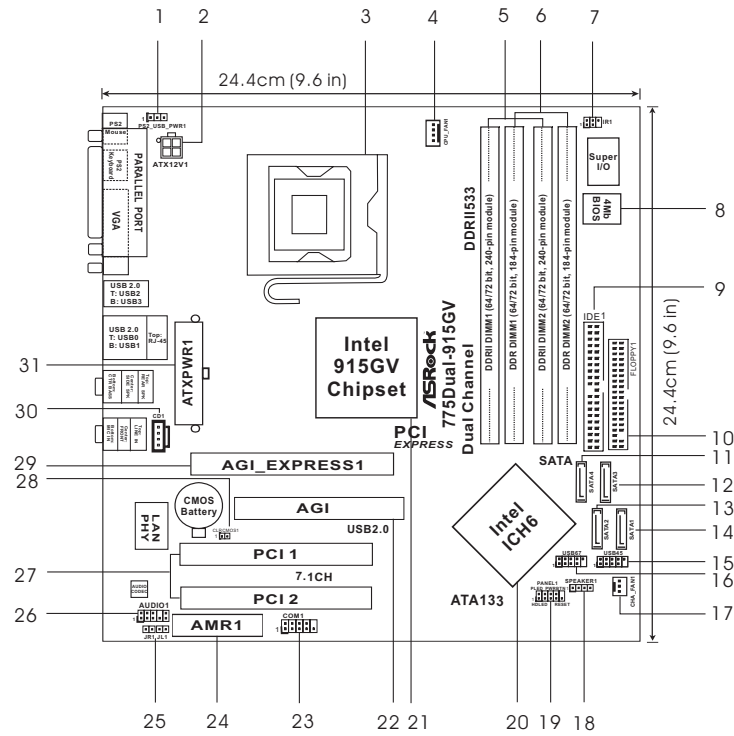
Graphics Chip Vendor	Model Name	Chipset Name
n-VIDIA	ASUS Extreme N5900	GeForce PCX5900
	ASUS EN6200GE	GeForce 6200
	ASUS EN6200	GeForce 6200
	ASUS EN6800GT	GeForce 6800GT
	ASUS EN6800	GeForce 6800
	ALBATRON PC6600GT	GeForce 6600GT
	GIGABYTE GV-NX62128D	GeForce 6200
	GIGABYTE GV-NX66128D	GeForce 6600
	LEADTEK PX6200 TC/TDH	GeForce 6200TC
	MSI PCX 5750-TD128	GeForce PCX5750
	SPARKLE GeForce 6200TC	GeForce 6200TC
	ATi	ASUS EAX700PRO/TVD
ASUS EAX800XL		Radeon X800 XL
ABIT X600XT		Radeon X600 XT
GECUBE GC-RX300-C3		RADEON X300 SE
GECUBE X850XT-VIVO		Radeon X850 XT
GIGABYTE GV-RX60P128D		RADEON X600PRO
MSI X800XT		Radeon X800 XT
POWERCOLOR X300 SE		Radeon X300 SE

For the latest updates of the supported PCI Express VGA card list for AGI Express slot (PCI Express x 4), please visit ASRock website for details.

ASRock website: <http://www.asrock.com/support/index.htm>

Note. Turbo cache PCI Express x 16 VGA cards are not recommended to use.

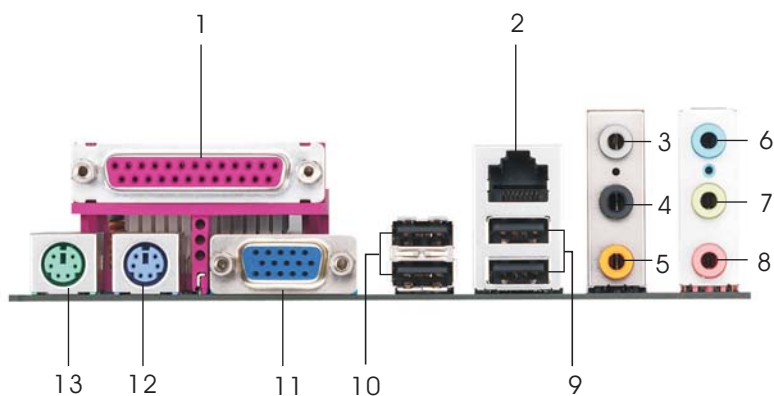
## 1.5 Motherboard Layout



- |   |  |
|---|--|
| 1 PS2_USB_PWR1 Jumper   | 16 USB 2.0 Header (USB67, Blue)          |
| 2 ATX 12V Connector (ATX12V1)   | 17 Chassis Fan Connector (CHA_FAN1)      |
| 3 775-Pin CPU Socket  | 18 Chassis Speaker Header (SPEAKER 1)    |
| 4 CPU Fan Connector (CPU_FAN1)  | 19 System Panel Header (PANEL1)          |
| 5 2 x 240-pin DDR II DIMM Slots<br>(Dual Channel A: DDR II1, DDR II2; Yellow) | 20 South Bridge Controller               |
| 6 2 x 184-pin DDR DIMM Slots<br>(Dual Channel B: DDR1, DDR2; Blue)            | 21 North Bridge Controller               |
| 7 Infrared Module Connector (IR1)   | 22 ASRock Graphics Interface Slot (AGI)  |
| 8 BIOS FWH Chip   | 23 COM Port Header (COM1)                |
| 9 Primary IDE Connector (IDE1, Black)   | 24 AMR Slot (AMR1)                       |
| 10 Floppy Connector (FLOPPY1)   | 25 JR1/JL1 Jumpers                       |
| 11 Fourth Serial ATA Connector (SATA4, black)                                 | 26 Front Panel Audio Header (AUDIO1)     |
| 12 Third Serial ATA Connector (SATA3, black)                                  | 27 PCI Slots (PCI1-2)                    |
| 13 Secondary Serial ATA Connector (SATA2, blue)                               | 28 Clear CMOS Jumper (CLR CMOS1)         |
| 14 Primary Serial ATA Connector (SATA1, blue)                                 | 29 AGI Express Slot (PCI Express x 4)    |
| 15 USB 2.0 Header (USB45, Blue)   | 30 Internal Audio Connector: CD1 (Black) |
|   | 31 ATX Power Connector (ATXPWR1)         |

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## 1.6 ASRock 8CH I/O



- |                           |                                |
|---------------------------|--------------------------------|
| 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

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## Chapter 2 Installation

**775Dual-915GV** is a Micro ATX form factor (9.6" x 9.6", 24.4 x 24.4 cm) motherboard. Before you install the motherboard, study the configuration of your chassis to ensure that the motherboard fits into it.



Make sure to unplug the power cord before installing or removing the motherboard. Failure to do so may cause physical injuries to you and damages to motherboard components.

### 2.1 Screw Holes

Place screws into the holes indicated by circles to secure the motherboard to the chassis.



Do not over-tighten the screws! Doing so may damage the motherboard.

### 2.2 Pre-installation Precautions

Take note of the following precautions before you install motherboard components or change any motherboard settings.

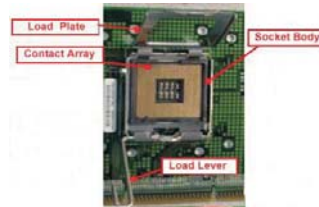
1. Unplug the power cord from the wall socket before touching any component.
2. To avoid damaging the motherboard components due to static electricity, **NEVER** place your motherboard directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before 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 antistatic pad or in the bag that comes with the component.



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.

## 2.3 CPU Installation

For the installation of Intel 775-LAND CPU, please follow the steps below.



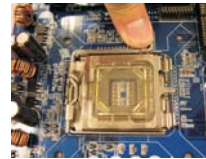
775-Pin Socket Overview



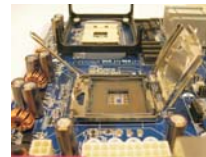
Before you insert the 775-LAND CPU into the socket, please check if the CPU surface is unclean or if there is any bent pin on the socket. Do not force to insert the CPU into the socket if above situation is found. Otherwise, the CPU will be seriously damaged.

Step 1. Open the socket:

Step 1-1. Disengaging the lever by depressing down and out on the hook to clear retention tab.



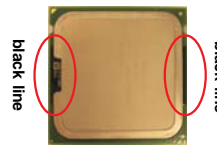
Step 1-2. Rotate the load lever to fully open position at approximately 135 degrees.



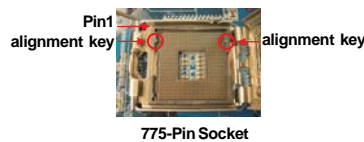
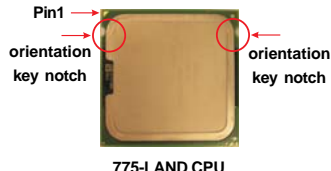
Step 1-3. Rotate the load plate to fully open position at approximately 100 degrees.

Step 2. Insert the 775-LAND CPU:

Step 2-1. Hold the CPU by the edges where are marked with black lines.



Step 2-2. Orient the CPU with IHS (Integrated Heat Sink) up. Locate Pin1 and the two orientation key notches.



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For proper inserting, please ensure to match the two orientation key notches of the CPU with the two alignment keys of the socket.

Step 2-3. Carefully place the CPU into the socket by using a purely vertical motion.

Step 2-4. Verify that the CPU is within the socket and properly mated to the orient keys.



Step 3. Remove PnP Cap (Pick and Place Cap):

Use your left hand index finger and thumb to support the load plate edge, engage PnP cap with right hand thumb and peel the cap from the socket while pressing on center of PnP cap to assist in removal.



1. It is recommended to use the cap tab to handle and avoid kicking off the PnP cap.
2. This cap must be placed if returning the motherboard for after service.

Step 4. Close the socket:

Step 4-1. Rotate the load plate onto the IHS.

Step 4-2. While pressing down lightly on load plate, engage the load lever.

Step 4-3. Secure load lever with load plate tab under retention tab of load lever.





## 2.4 Installation of CPU Fan and Heatsink

This motherboard is equipped with 775-Pin socket that supports Intel 775-LAND CPU. Please adopt the type of heatsink and cooling fan compliant with Intel 775-LAND CPU to dissipate heat. Before you installed the heatsink, you need to spray thermal interface material between the CPU and the heatsink to improve heat dissipation. Ensure 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 12, No. 4).

**For proper installation, please kindly refer to the instruction manuals of your CPU fan and heatsink.**

Below is an example to illustrate the installation of the heatsink for 775-LAND CPU.

Step 1. Apply thermal interface material onto center of IHS on the socket surface.



Step 2. Place the heatsink onto the socket. Ensure fan cables are oriented on side closest to the CPU fan connector on the motherboard (CPU\_FAN1, see page 12, No. 4).



Step 3. Align fasteners with the motherboard throughholes.

Step 4. Rotate the fastener clockwise, then press down on fastener caps with thumb to install and lock. Repeat with remaining fasteners.



If you press down the fasteners without rotating them clockwise, the heatsink cannot be secured on the motherboard.

Step 5. Connect fan header with the CPU fan connector on the motherboard.

Step 6. Secure excess cable with tie-wrap to ensure cable does not interfere with fan operation or contact other components.

## 2.5 Installation of Memory Modules (DIMM)

**775Dual-915GV** motherboard provides two 184-pin DDR (Double Data Rate) DIMM slots and two 240-pin DDRII 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) DDR DIMM pair in the slots of the same color. In other words, you have to install **identical** DDRII DIMM pair in **Dual Channel A** (DDRII1 and DDRII2; Yellow slots; see p.12 No.5) or **identical** DDR DIMM pair in **Dual Channel B** (DDR1 and DDR2; Blue slots; see p.12 No.6), so that Dual Channel Memory Technology can be activated. You may refer to the Dual Channel Memory Configuration Table below.

**Dual Channel Memory Configurations**

	DDRII1 (Yellow Slot)	DDR1 (Blue Slot)	DDRII2 (Yellow Slot)	DDR2 (Blue Slot)
(1)	Populated	-	Populated	-
(2)	-	Populated	-	Populated



1. It is not allowed to install DDR into DDRII slot or DDRII into DDR slot; otherwise, this motherboard and DIMM may be damaged.
2. It is not allowed to install both DDR and DDRII to this motherboard at the same time; otherwise, this motherboard and DIMM may be damaged.
3. This motherboard doesn't support 128Mbit DRAM Cell (128MB/8 cells; 256MB/16 cells).

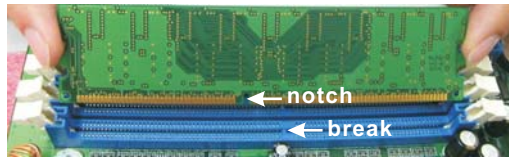
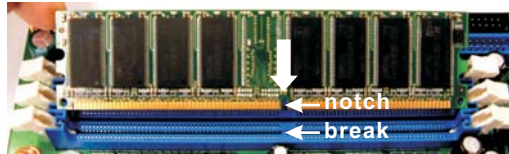
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## Installing a DIMM



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.

---

## 2.6 Expansion Slots (PCI, AMR, AGI, and AGI Express Slots (PCI Express x 4))

There are 2 PCI slots, 1 AMR slot, 1 AGI slot, and 1 AGI Express slot (PCI Express x 4) on this motherboard.

**PCI slots:** PCI slots are used to install expansion cards that have the 32-bit PCI interface.

**AMR slot:** AMR slot is used to insert an ASRock MR card (optional) with v.92 Modem functionality.

**AGI slot:** The AGI [ASRock Graphics Interface] slot is a special design that only supports compatible AGP VGA cards. For the information of the compatible AGP VGA cards, please refer to the "Supported AGP VGA Cards List for AGI Slot" on page 9 and page 10.

### **AGI Express slot (PCI Express x 4):**

AGI Express slot (PCI Express x 4) is used to install PCI Express expansion cards. For the information of the compatible PCI Express VGA cards, please refer to the "Supported PCI Express VGA Card List for AGI Express Slot (PCI Express x 4)" on page 11.



1. If you install the add-on AGP VGA card or PCI Express VGA card, BIOS setup will automatically disable the onboard VGA.
2. Please make sure to set the BIOS onboard VGA selection into "Enabled" if you want this motherboard to support Surround Display. Then the onboard VGA in Windows will be the primary VGA card.

### **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.

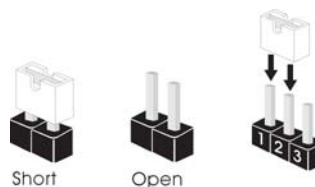
## 2.7 Surround Display Feature

Thanks to ASRock patented AGI8X and AGI Express Technology, this motherboard supports Surround Display upgrade. With the internal onboard VGA and the external add-on AGP VGA card and PCI Express VGA card, you can easily enjoy the benefits of Surround Display feature. Please make sure to set the BIOS onboard VGA selection into "Enabled", and start your computer with onboard VGA if you want this motherboard to support multi-monitors. For the detailed instruction, please refer to the document at the following path in the Support CD:

..\ Surround Display Information

## 2.8 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	Description
PS2_USB_PWR1 (see p.12 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.

JR1(see p.12 No. 25)	
JL1(see p.12 No. 25)	

Note: If the jumpers JL1 and JR1 are short, both the front panel and the rear panel audio connectors can work.

Clear CMOS (CLR_CMOS1, 2-pin jumper) (see p.12 No. 28)	
--	--

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 2 pins on CLR\_CMOS1 for 5 seconds.

## 2.9 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!

**FDD connector**  
(33-pin FLOPPY1)  
(see p.12 No. 10)



**Note:** Make sure the red-striped side of the cable is plugged into Pin1 side of the connector.

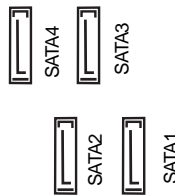
**Primary IDE connector (Black)**  
(39-pin IDE1, see p.12 No. 9)



connect the blue end to the motherboard connect the black end to the IDE devices  
80-conductor ATA 66/100 cable

**Note:** Please refer to the instruction of your IDE device vendor for the details.

**Serial ATA Connectors**  
(SATA1: see p.12 No. 14)  
(SATA2: see p.12 No. 13)  
(SATA3: see p.12 No. 12)  
(SATA4: see p.12 No. 11)



These four Serial ATA (SATA) connectors support SATA data cables for internal storage devices. The current SATA interface allows up to 1.5 Gb/s data transfer rate.

**Serial ATA (SATA) Data Cable**



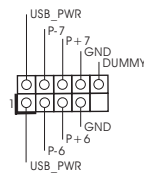
Either end of the SATA data cable can be connected to the SATA hard disk or the SATA connector on the motherboard.

**Serial ATA (SATA)  
Power Cable  
(Optional)**



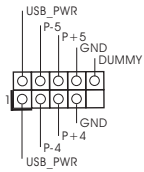
Please connect the black end of SATA power cable to the power connector on each drive. Then connect the white end of SATA power cable to the power connector of the power supply.

**USB 2.0 Header  
(9-pin USB67)  
(see p.12 No. 16)**



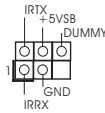
ASRock 8CH I/O accommodates 4 default USB 2.0 ports. If those USB 2.0 ports on the I/O panel are not sufficient, this USB 2.0 header is available to support 2 additional USB 2.0 ports.

**USB 2.0 Header  
(9-pin USB45)  
(see p.12 No. 15)**



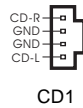
ASRock 8CH I/O accommodates 4 default USB 2.0 ports. If those USB 2.0 ports on the I/O panel are not sufficient, this USB 2.0 header is available to support 2 additional USB 2.0 ports.

**Infrared Module Header  
(5-pin IR1)  
(see p.12 No. 7)**



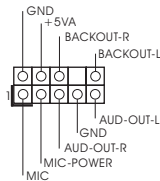
This header supports an optional wireless transmitting and receiving infrared module.

**Internal Audio Connectors  
(4-pin CD1)  
(CD1: see p.12 No. 30)**



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.

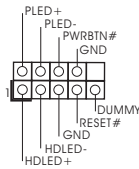
**Front Panel Audio Header  
(9-pin AUDIO1)  
(see p.12 No. 26)**



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

**System Panel Header**

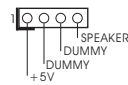
(9-pin PANEL1)  
(see p.12 No. 19)



This header accommodates several system front panel functions.

**Chassis Speaker Header**

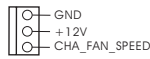
(4-pin SPEAKER 1)  
(see p.12 No. 18)



Please connect the chassis speaker to this header.

**Chassis Fan Connector**

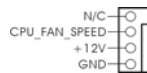
(3-pin CHA\_FAN1)  
(see p.12 No. 17)



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.12 No. 4)



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

**ATX Power Connector**

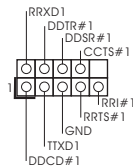
(20-pin ATXPWR1)  
(see p.12 No. 31)



Please connect an ATX power supply to this connector.

**COM Port Header**

(9-pin COM1)  
(see p.12 No. 23)



This COM port header is used to support a COM port module.

**ATX 12V Connector**

(4-pin ATX12V1)  
(see p.12 No. 2)



Please connect an ATX 12V power supply to this connector.

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## **2.10 Serial ATA (SATA) Hard Disks Installation**

This motherboard adopts Intel ICH6 south bridge chipset that supports Serial ATA (SATA) hard disks. You may install SATA hard disks on this motherboard for internal storage devices. This section will guide you to install the SATA hard disks.

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

STEP 2: Connect the SATA power cable to the SATA hard disk.

STEP 3: Connect one end of the SATA data cable to the motherboard's SATA connector.

STEP 4: Connect the other end of the SATA data cable to the SATA hard disk.

---

## Chapter 3 BIOS SETUP UTILITY

### 3.1 Introduction

This section explains how to use the BIOS SETUP UTILITY to configure your system. The BIOS FWH chip 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

BIOS SETUP UTILITY	
Main	Advanced H/W Monitor Boot Security Exit
<b>System Overview</b> System Time [ 1 :00:09 ] System Date [Thu 08/04/2005] BIOS Version : 775Dual-915GV BIOS P1.00 Processor Type : Intel (R) CPU 3.60 Ghz (64bit supported) Processor Speed : 3600 MHz Microcode Update : F4314 Cache Size : 2048KB Total Memory : 256MB with 8MB shared memory Single-Channel Memory Mode DDRII 1 : 256MB/266MHz (DDRII533) DDRII 2 : 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 1985-2005, American Megatrends, Inc.	

#### System Time [Hour:Minute:Second]

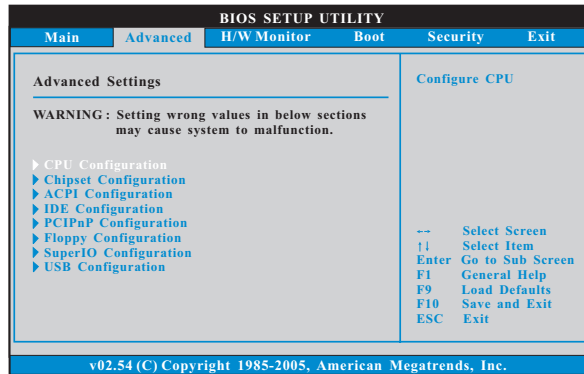
Use this item to specify the system time.

#### System Date [Day Month/Date/Year]

Use this item to specify the system date.

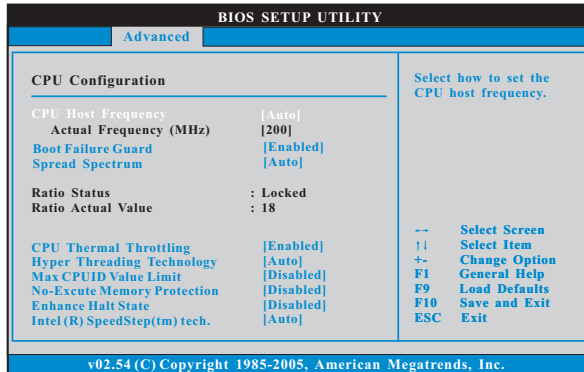
### 3.3 Advanced Screen

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.



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

#### 3.3.1 CPU Configuration



##### CPU Host Frequency

While entering setup, BIOS auto detects the present CPU host frequency of this motherboard. The actual CPU host frequency will show in the following item.

##### Boot Failure Guard

Enable or disable the feature of Boot Failure Guard.

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**Spread Spectrum**

This item should always be [Auto] for better system stability.

**Ratio Status**

This is a read-only item, which displays whether the ratio status of this motherboard is "Locked" or "Unlocked". If it shows "Unlocked", you will find an item **Ratio CMOS Setting** appears to allow you changing the ratio value of this motherboard. If it shows "Locked", then the item **Ratio CMOS Setting** will be hidden. If you use the ratio value to time the CPU frequency, it will be equal to the core speed of the installed processor.

**Ratio Actual Value**

This is a read-only item, which displays the ratio actual value of this motherboard.

**CPU Thermal Throttling**

You may select [Enabled] to enable P4 CPU internal thermal control mechanism to keep the CPU from overheated.

**Hyper Threading Technology**

To enable this feature, it requires a computer system with an Intel Pentium®4 processor that supports Hyper-Threading technology and an operating system that includes optimization for this technology, such as Microsoft® Windows® XP. Set to [Auto] if using Microsoft® Windows® XP, or Linux kernel version 2.4.18 or higher. This option will be hidden if the installed CPU does not support Hyper-Threading technology.

**Max CPUID Value Limit**

For Prescott CPU only, some OSes (ex. NT4.0) cannot handle the function with disable. This should be enabled in order to boot legacy OSes that cannot support CPUs with extended CPUID functions.

**No-Execute Memory Protection**

No-Execution (NX) Memory Protection Technology is an enhancement to the IA-32 Intel Architecture. An IA-32 processor with "No Execute (NX) Memory Protection" can prevent data pages from being used by malicious software to execute code. This option will be hidden if the current CPU does not support No-Execute Memory Protection.

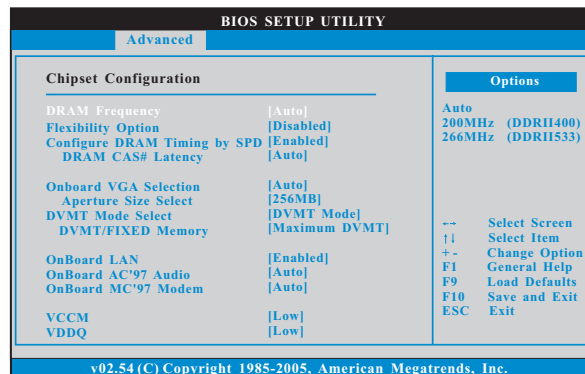
**Enhance Halt State**

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.

**Intel (R) SpeedStep(tm) tech.**

Intel (R) SpeedStep(tm) tech. is Intel's new power saving technology. Processor can switch between multiple frequency and voltage points to enable power savings. If you select [Auto], you need to set the "Power Schemes" as "Portable/Laptop" to enable this function.

### 3.3.2 Chipset Configuration



#### DRAM Frequency

If [Auto] is selected, the motherboard will detect the memory module(s) inserted and assigns appropriate frequency automatically. You may also select other value as operating frequency: [166MHz (DDR 333)], [200MHz (DDR 400)]. If DDRII DIMM is inserted to DDRII slot, you may select [200MHz (DDRII 400)], [266MHz (DDRII 533)] as operating frequency.

#### Flexibility Option

The default value of this option is [Disabled]. It will allow better tolerance for memory compatibility when it is set to [Enabled].

#### Configure DRAM Timing by SPD

Select [Enabled] will configure the following items by the contents in the SPD (Serial Presence Detect) device. If you select [Disabled], you will find the items "DRAM RAS# Precharge", and "DRAM RAS# Activate to Precharge" appear to allow you adjusting them.

#### DRAM CAS# Latency

Use this item to adjust the means of memory accessing. For DDR DIMM: Configuration options are [3], [2.5], [2], and [Auto]. For DDRII DIMM: Configuration options are [5], [4], [3], and [Auto].

#### DRAM RAS# to CAS# Delay

This controls the latency between the DRAM active command and the read / write command. Configuration options: [2 DRAM Clocks], [3 DRAM Clocks], [4 DRAM Clocks], and [5 DRAM Clocks].

#### DRAM RAS# Precharge

This controls the idle clocks after a precharge command is issued. Configuration options: [2 DRAM Clocks], [3 DRAM Clocks], [4 DRAM Clocks], and [5 DRAM Clocks].

---

**DRAM RAS# Activate to Precharge**

This controls the number of DRAM clocks for TRAS. Configuration options: [4 DRAM Clocks], [5 DRAM Clocks], [6 DRAM Clocks], [7 DRAM Clocks], [8 DRAM Clocks], [9 DRAM Clocks], [10 DRAM Clocks], [11 DRAM Clocks], [12 DRAM Clocks], [13 DRAM Clocks], [14 DRAM Clocks], and [15 DRAM Clocks].

**Onboard VGA Selection**

This allows you to enjoy the benefits of Surround Display feature. If you select [Auto], the onboard VGA will be automatically disabled when you install AGP 8X or PCI Express X 16 VGA card; the onboard VGA will be enabled without the installation of any add-on VGA card. If you select [Enabled], the onboard VGA will be enabled, and your first screen will always be onboard VGA.

**Aperture Size Select**

This allows you to adjust the memory capability of onboard VGA. No matter you insert DDR or DDRII DIMM to this motherboard, you may select [256MB] or [128MB] as the aperture size select. The default value of this option is [256MB]. However, if you install VGA cards to this motherboard, onboard VGA will be disabled.

**DVMT Mode Select**

Use this item to select DVMT Mode. The default value is [DVMT Mode]. Configuration options: [Fixed Mode], [DVMT Mode], and [Fixed + DVMT Mode].

**DVMT/FIXED Memory**

Use this item to select DVMT/FIXED Memory. The default value is [Maximum DVMT]. Configuration options: [64MB], [128MB], and [Maximum DVMT].

**OnBoard LAN**

This allows you to enable or disable the "OnBoard LAN" feature.

**OnBoard AC'97 Audio**

Select [Auto], [Enabled] or [Disabled] for the onboard AC'97 Audio feature.

**OnBoard MC'97 Modem**

Select [Auto] or [Disabled] for the onboard MC'97 Modem feature.

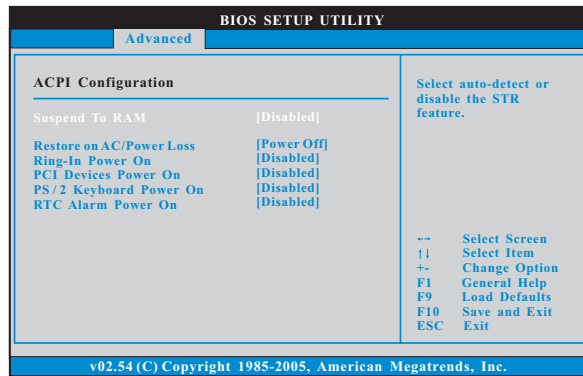
**VCCM**

This option allows you to set VCCM. The default value is [Auto]. Configuration options: [High], [Low], and [Auto].

**VDDQ**

This option allows you to set VDDQ. The default value is [Low]. Configuration options: [High], and [Low].

### 3.3.3 ACPI Configuration



#### 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

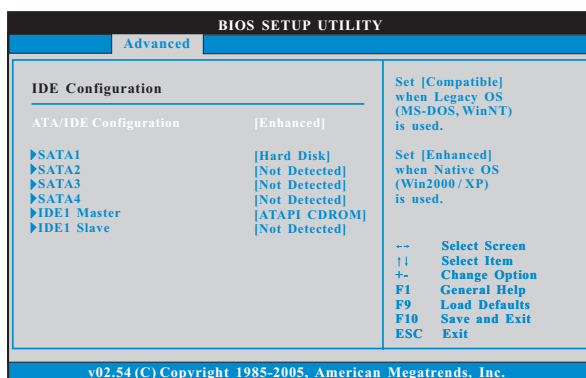
Use this item to enable or disable PS/2 keyboard to turn on the system from the power-soft-off mode.

#### RTC Alarm Power On

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



### 3.3.4 IDE Configuration



#### ATA/IDE Configuration

Please select [**Compatible**] when you install legacy OS (Windows NT). If native OS (Windows 2000 / XP) is installed, please select [**Enhanced**].

When [**Compatible**] is selected

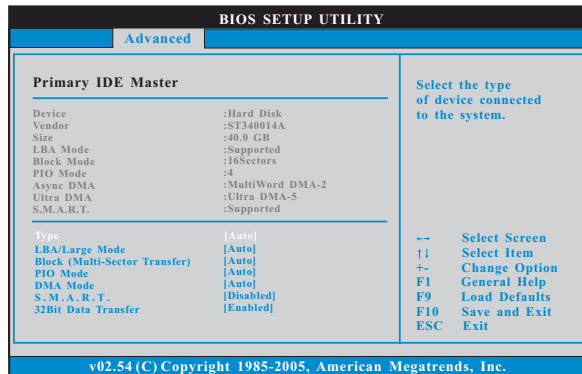
#### Combined Option

It allows you to select between [**SATA 1, SATA 2, SATA 3, SATA 4**], [**SATA 1, SATA 3, IDE 1**], and [**IDE 1, SATA 2, SATA 4**]. If it is set to [SATA 1, SATA 3, IDE 1], then SATA2, SATA4 will not work. Likewise, if it is set to [IDE 1, SATA 2, SATA 4], then SATA1, SATA3 will not work.



Because Intel® ICH6 south bridge only supports four IDE devices under legacy OS (Windows NT), you have to choose [SATA 1, SATA 2, SATA 3, SATA 4], [SATA 1, SATA 3, IDE 1], or [IDE 1, SATA 2, SATA 4] when the installed device is used with legacy OS.

	[SATA 1, SATA 2, SATA 3, SATA 4]	[SATA 1, SATA 3, IDE 1]	[IDE 1, SATA 2, SATA 4]
Master	SATA1, SATA2	SATA1	SATA2
Slave	SATA3, SATA4	SATA3	SATA4



### 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**

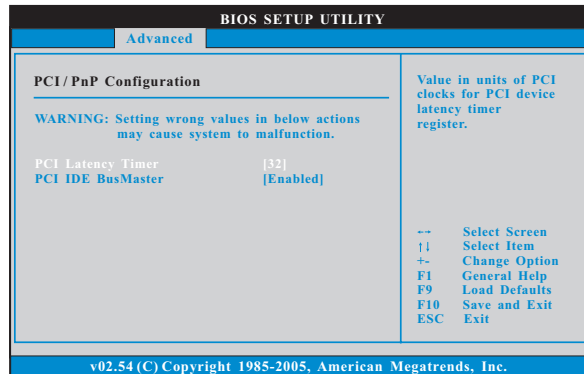
DMA capability allows the improved transfer-speed and data-integrity for compatible IDE devices.

**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****PCI Latency Timer**

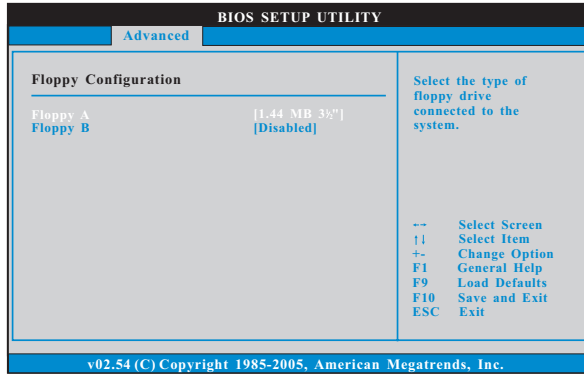
The default value is 32. It is recommended to keep the default value unless the installed PCI expansion cards' specifications require other settings.

**PCI IDE BusMaster**

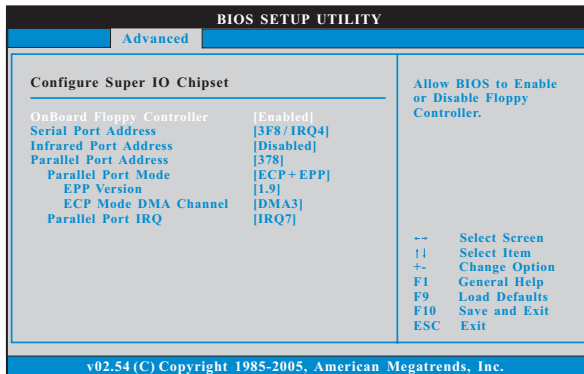
Use this item to enable or disable the PCI IDE BusMaster feature.

### 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].

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**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].

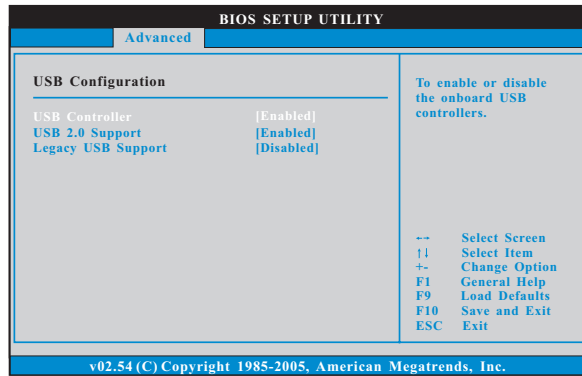
**ECP Mode DMA Channel**

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



#### USB Controller

Use this item to enable or disable the use of USB controller.

#### USB 2.0 Support

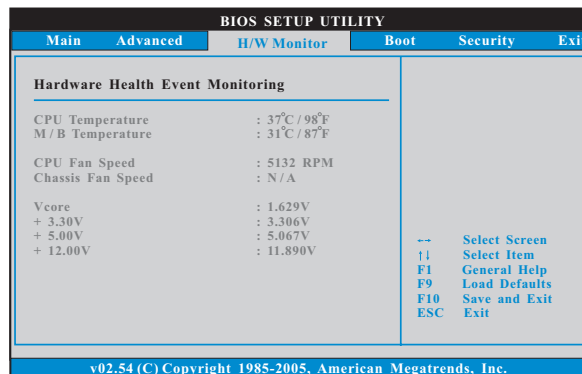
Use this item to enable or disable the USB 2.0 support.

#### 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.

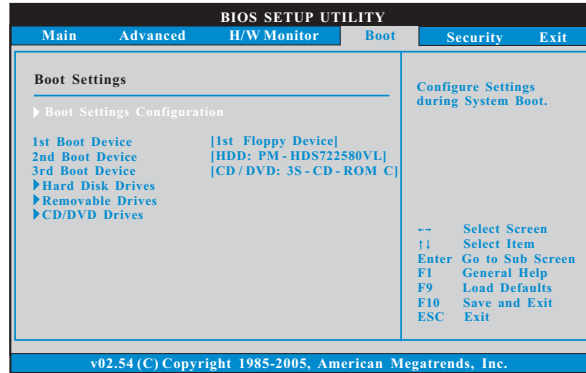
### 3.4 Hardware Health Event Monitoring Screen

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.

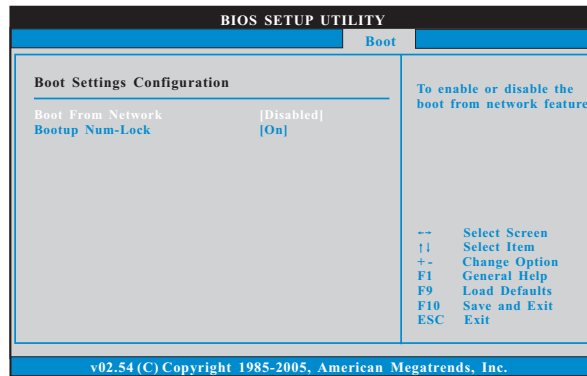


### 3.5 Boot Screen

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.

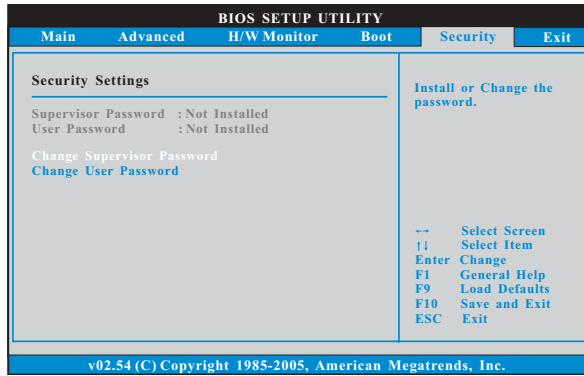
##### Boot Up Num-Lock

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

---

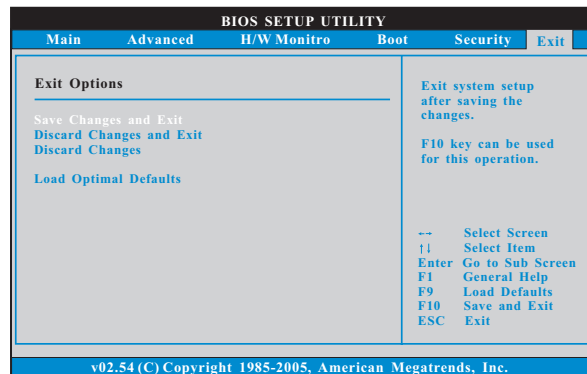
### 3.6 Security Screen

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.

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## Chapter 4 Software Support

### 4.1 Install Operating System

This motherboard supports various Microsoft® Windows® operating systems: 2000 / XP / XP 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 under Windows. 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 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 "LGA 775 CPU Installation Live Demo" Program

This motherboard is equipped with Intel LGA 775 socket, which is a new CPU socket interface that Intel has released. Since it has several tiny pins, which are easily to be damaged by improper handling, ASRock sincerely presents you a clear installation guide through this "LGA 775 CPU Installation Live Demo". We hope you may check this live demo program before you start the installation of LGA 775 CPU in order to reduce the risks of CPU and motherboard damages caused by any improper handling. To see this Live Demo, you can run Microsoft® Media Player® to play the file. You may find this Live Demo in the motherboard's Support CD through the following path:

..\ MPEGAV \ LGA775INST.DAT

#### 4.2.5 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.