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## **CHAPTER 1: INTRODUCTION**

### **1.1 BEFORE YOU START**

Thank you for choosing our product. Before you start installing the motherboard, please make sure you follow the instructions below:

- Prepare a dry and stable working environment with sufficient lighting.
- Always disconnect the computer from power outlet before operation.
- Before you take the motherboard out from anti-static bag, ground yourself properly by touching any safely grounded appliance, or use grounded wrist strap to remove the static charge.
- Avoid touching the components on motherboard or the rear side of the board unless necessary. Hold the board on the edge, do not try to bend or flex the board.
- Do not leave any unfastened small parts inside the case after installation. Loose parts will cause short circuits which may damage the equipment.
- Keep the computer from dangerous area, such as heat source, humid air and water.

### **1.2 PACKAGE CHECKLIST**

- ✦ FDD Cable X 1
- ✦ HDD Cable X 1
- ✦ Rear I/O Panel for ATX Case X 1
- ✦ User's Manual X 1
- ✦ Fully Setup Driver CD X 1
- ✦ Serial ATA Cable X 1 (optional)
- ✦ Serial ATA Power Cable X 1 (optional)
- ✦ USB 2.0 Cable X1 (optional)
- ✦ S/PDIF out Cable X 1 (optional)

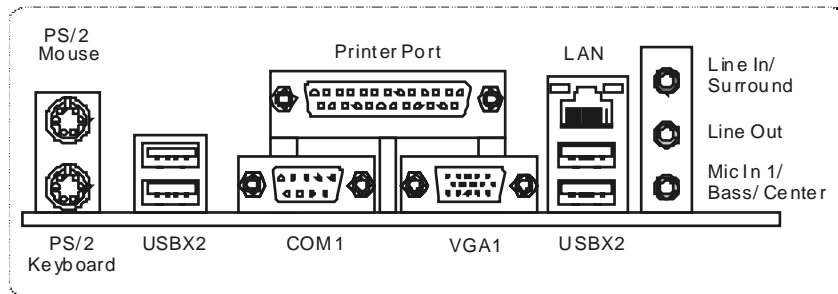
### 1.3 MOTHERBOARD FEATURES

|             | <i>865G Micro 775</i>   | <i>865GM Micro 775</i>   |
|-------------|---|--|
| CPU         | LGA 775<br>Intel Pentium 4 / Pentium D / Celeron D processor up to 3.4 GHz<br>Intel Core2Duo Processor (For Ver 8.x only)<br>Supports Hyper-Threading<br>Execute Disable Bit<br>Enhanced Intel SpeedStep<br>Extended Memory 64 Technology | LGA 775<br>Intel Pentium 4 / Pentium D / Celeron D processor up to 3.4 GHz<br>Supports Hyper-Threading<br>Execute Disable Bit<br>Enhanced Intel SpeedStep<br>Extended Memory 64 Technology |
| FSB         | 533 / 800 MHz   | 533 / 800 MHz  |
| Chipset     | Intel 865G<br>Intel ICH5  | Intel 865GM<br>Intel ICH5  |
| Graphics    | Intel Extreme Graphics 2<br>Max Shared Video Memory is 64MB   | Intel Extreme Graphics 2<br>Max Shared Video Memory is 64MB  |
| Super I/O   | ITE IT8712F<br>H/W Monitor<br>Fan Speed Controller<br>ITE's "Smart Guardian" function   | ITE IT8712F<br>H/W Monitor<br>Fan Speed Controller<br>ITE's "Smart Guardian" function  |
| Main Memory | DIMM Slots x 2<br>Each DIMM supports 128/256/512MB & 1GB<br>DDR<br>Max Memory Capacity 2GB<br>Dual Channel Mode DDR memory module<br>Supports DDR 266 / 333 / 400   | DIMM Slots x 2<br>Each DIMM supports 128/256/512MB & 1GB<br>DDR<br>Max Memory Capacity 2GB<br>Dual Channel Mode DDR memory module<br>Supports DDR 266 / 333 / 400                          |
| IDE         | Integrated IDE Controller<br>Ultra DMA 33~100 Bus Master Mode<br>supports PIO Mode 0~4,   | Integrated IDE Controller<br>Ultra DMA 33~100 Bus Master Mode<br>supports PIO Mode 0~4,  |
| SATA        | Integrated Serial ATA Controller<br>Data transfer rates up to 1.5 Gb/s.<br>SATA Version 1.0 specification compliant.  | Integrated Serial ATA Controller<br>Data transfer rates up to 1.5 Gb/s.<br>SATA Version 1.0 specification compliant.   |
| 10/100 LAN  | Realtek RTL 8100C<br>10 / 100 Mb/s auto negotiation<br>Half / Full duplex capability  | Realtek RTL 8100C<br>10 / 100 Mb/s auto negotiation<br>Half / Full duplex capability   |
| Sound Codec | ALC655 / 658<br>5.1 channels audio out<br>AC'97 Version 2.3   | ALC655 / 658<br>5.1 channels audio out<br>AC'97 Version 2.3  |
| Slots       | AGP 8X graphics slot                   x1<br>PCI slot                                    x3   | XGP graphics slot                    x1<br>PCI slot                                   x3   |

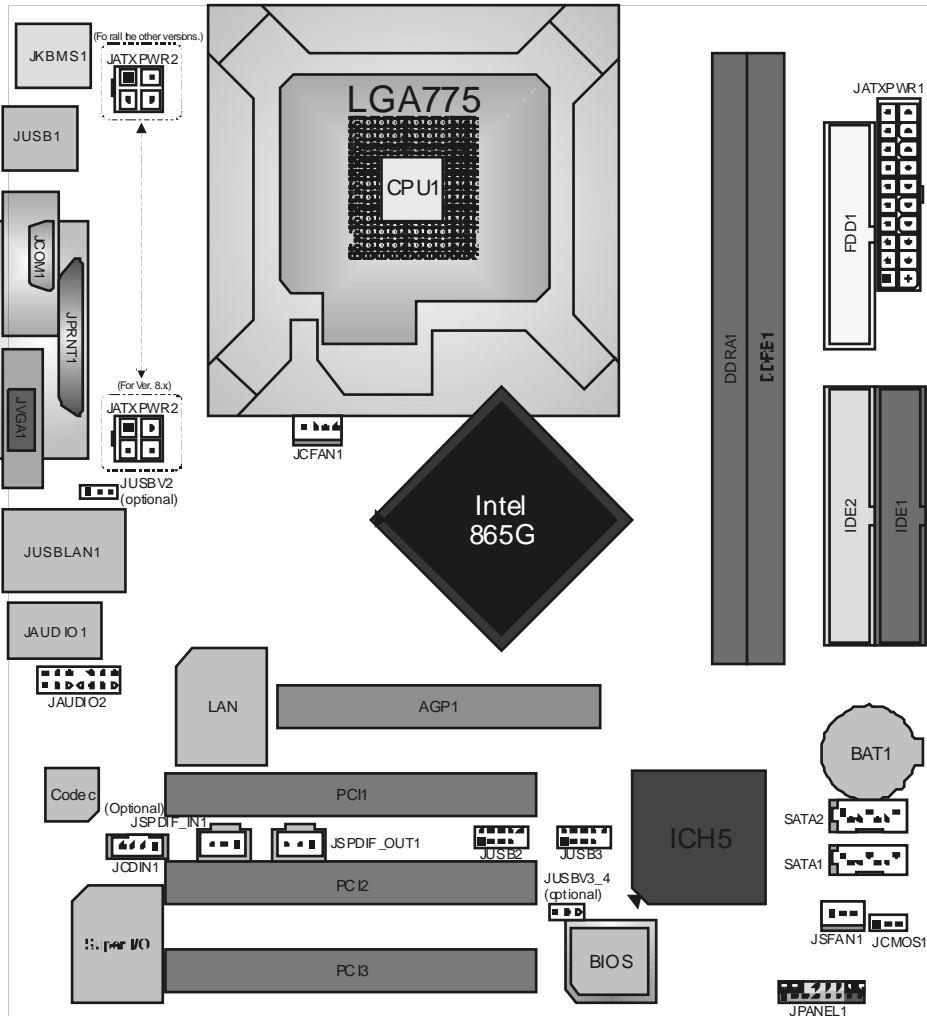
## 865G Micro 775 & 865GV Micro 775

|                    | <i>865G Micro 775</i>   | <i>865GV Micro 775</i> |   |               |
|--------------------|---|------------------------|---|---------------|
| On Board Connector | Floppy connector  | x1                     | Floppy connector  | x1            |
|                    | IDE Connector   | x2                     | IDE Connector   | x2            |
|                    | SATA Connector  | x2                     | SATA Connector  | x2            |
|                    | Front Panel Connector   | x1                     | Front Panel Connector   | x1            |
|                    | Front Audio Connector   | x1                     | Front Audio Connector   | x1            |
|                    | CD-in Connector   | x1                     | CD-in Connector   | x1            |
|                    | S/PDIF in connector (optional)  | x1                     | S/PDIF in connector (optional)  | x1            |
|                    | S/PDIF out connector  | x1                     | S/PDIF out connector  | x1            |
|                    | CPU Fan header  | x1                     | CPU Fan header  | x1            |
|                    | System Fan header   | x1                     | System Fan header   | x1            |
|                    | Clear CMOS header   | x1                     | Clear CMOS header   | x1            |
|                    | USB connector   | x2                     | USB connector   | x2            |
|                    | Power Connector (20pin)   | x1                     | Power Connector (20pin)   | x1            |
|                    | Power Connector (4pin)  | x1                     | Power Connector (4pin)  | x1            |
|                    | Back Panel I/O  | PS/2 Keyboard          | x1  | PS/2 Keyboard |
| PS/2 Mouse         |   | x1                     | PS/2 Mouse  | x1            |
| Serial Port        |   | x1                     | Serial Port   | x1            |
| Printer Port       |   | x1                     | Printer Port  | x1            |
| VGA port           |   | x1                     | VGA port  | x1            |
| LAN port           |   | x1                     | LAN port  | x1            |
| USB Port           |   | x4                     | USB Port  | x4            |
| Audio Jack         | x3  | Audio Jack             | x3  |               |
| Board Size         | 215 (W) x 235 (L) mm  |                        | 215 (W) x 235 (L) mm  |               |
| OS Support         | Windows 2000 / XP<br>Biostar Reserves the right to add or remove support for any OS with or without notice. |                        | Windows 2000 / XP<br>Biostar Reserves the right to add or remove support for any OS with or without notice. |               |

### 1.4 REAR PANEL CONNECTORS

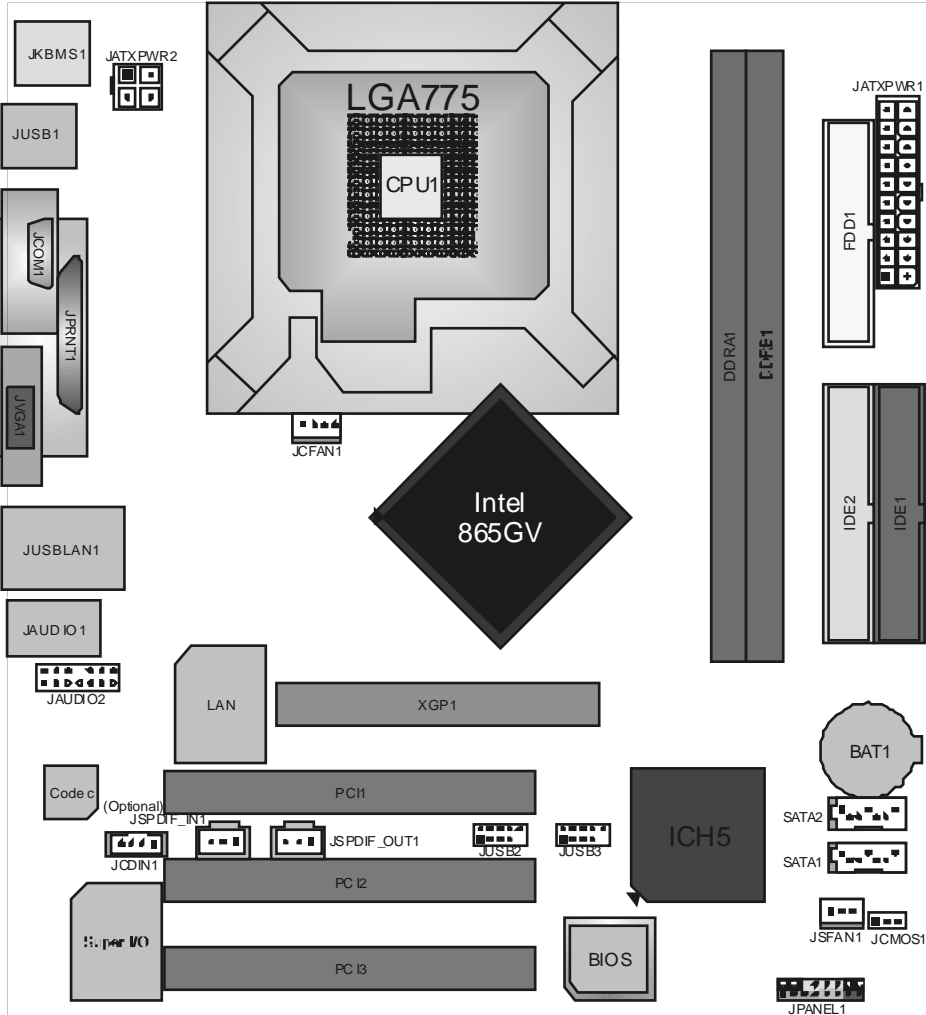


## 1.5 MOTHERBOARD LAYOUT OF 865G MICRO 775



**Note:** ■ represents the 1<sup>st</sup> pin.

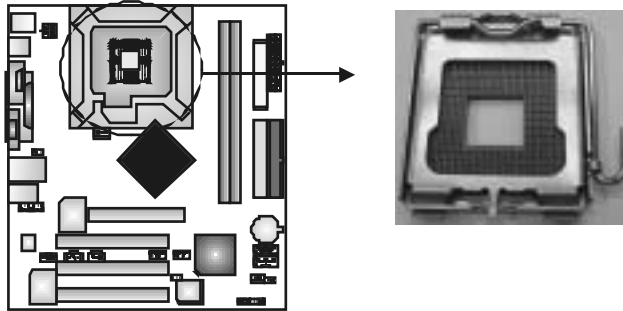
## 1.6 MOTHERBOARD LAYOUT OF 865GV MICRO 775



*Note:* ■ represents the 1<sup>st</sup> pin.

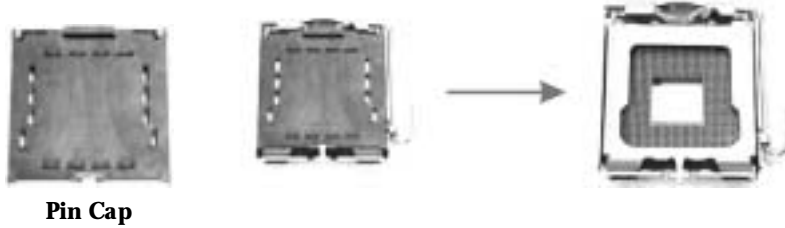
## CHAPTER 2: HARDWARE INSTALLATION

### 2.1 INSTALLING CENTRAL PROCESSING UNIT (CPU)

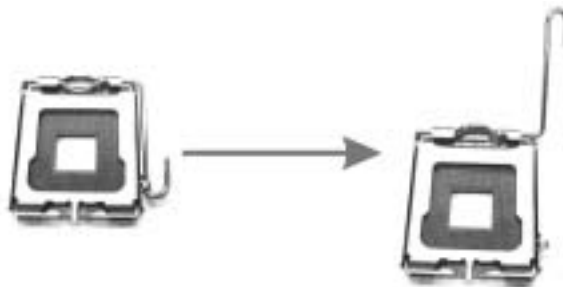


***Special Notice***

Remove Pin Cap before installation, and make good preservation for future use. When the CPU is removed, cover the Pin Cap on the empty socket to ensure pin legs won't be damaged.



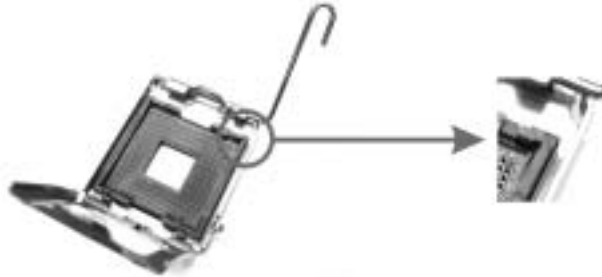
**Step 1:** Pull the socket locking lever out from the socket and then raise the lever up to a 90-degree angle.



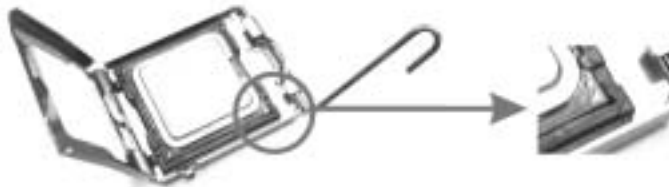


**Step 2:** Look for the triangular cut edge on socket, and the golden dot on CPU should point forwards this triangular cut edge. The CPU will fit only in the correct orientation.

*Step 2-1:*



*Step 2-2:*



**Step 3:** Hold the CPU down firmly, and then lower the lever to locked position to complete the installation.

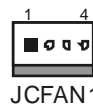
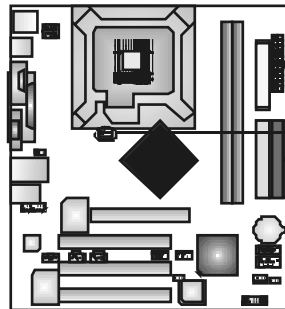


**Step 4:** Put the CPU Fan and heatsink assembly on the CPU and buckle it on the retention frame. Connect the CPU FAN power cable into the JCFAN1. This completes the installation.

## 2.2 FAN HEADERS

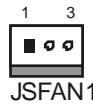
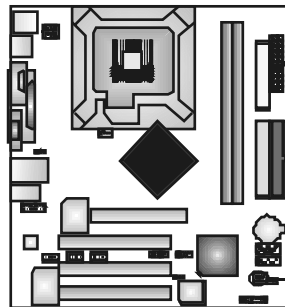
These fan headers support cooling-fans built in the computer. The fan cable and connector may be different according to the fan manufacturer. Connect the fan cable to the connector while matching the black wire to pin#1.

### JCFAN1: CPU Fan Header



| Pin | Assignment         |
|-----|--------------------|
| 1   | Ground             |
| 2   | +12V               |
| 3   | FAN RPM rate sense |
| 4   | Smart Fan Control  |

### JSFAN1: System Fan Header



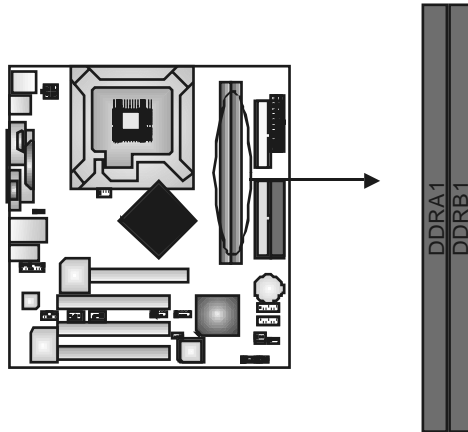
| Pin | Assignment         |
|-----|--------------------|
| 1   | Ground             |
| 2   | +12V               |
| 3   | FAN RPM rate sense |

**Note:**

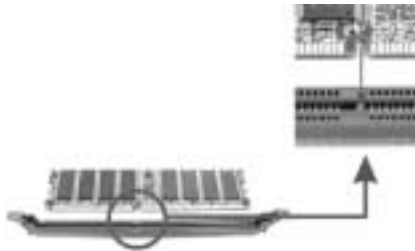
The JSFAN1 support 3-pin head connector. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

## 2.3 INSTALLING SYSTEM MEMORY

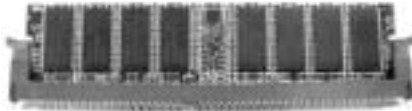
### A. Memory Modules



1. Unlock a DIMM slot by pressing the retaining dips outward. Align a DIMM on the slot such that the notch on the DIMM matches the break on the Slot.



2. Insert the DIMM vertically and firmly into the slot until the retaining chip snap back in place and the DIMM is properly seated.



### B. Memory Capacity

| DIMM Socket Location | DDR Module         | Total Memory Size |
|----------------------|--------------------|-------------------|
| DDRA1                | 256MB/512MB/1GB *1 | Max is 2GB.       |
| DDRB1                | 256MB/512MB/1GB *1 |                   |

### ***C. Dual Channel Memory installation***

To trigger the Dual Channel function of the motherboard, the memory module must meet the following requirements:

Install memory module of the same density in pair, shown in the following table.

| <b>Dual Channel Status</b> | <b>DDRA1</b> | <b>DDRB1</b> |
|----------------------------|--------------|--------------|
| Disabled                   | O            | X            |
| Disabled                   | X            | O            |
| Enabled                    | O            | O            |

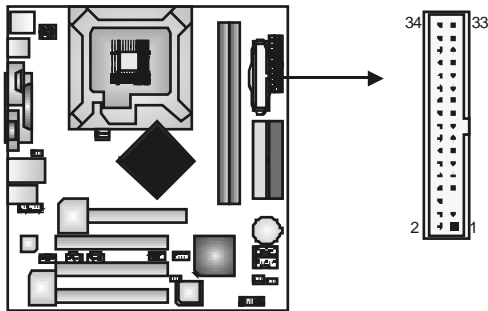
(O means memory installed, X means memory not installed.)

The DRAM bus width of the memory module must be the same (x8 or x16)

## 2.4 CONNECTORS AND SLOTS

### FDD1: Floppy Disk Connector

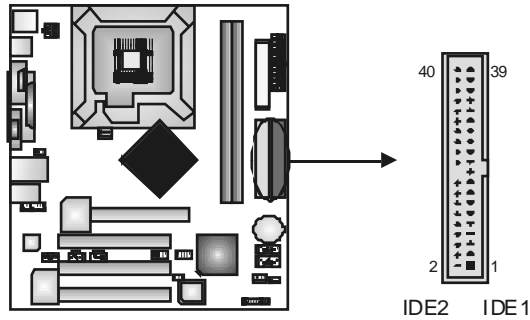
The motherboard provides a standard floppy disk connector that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types. This connector supports the provided floppy drive ribbon cables.



### IDE1/IDE2: Hard Disk Connectors

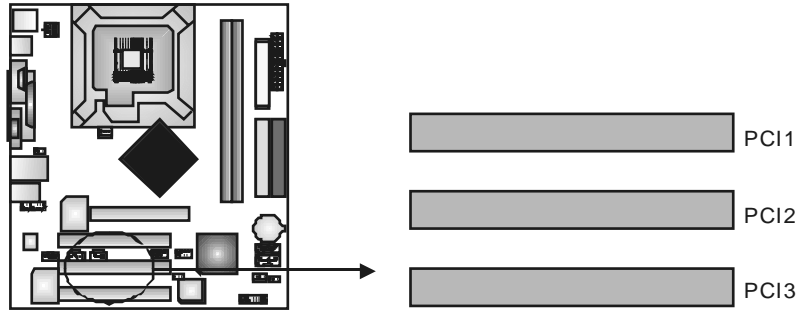
The motherboard has a 32-bit Enhanced PCI IDE Controller that provides PIO Mode 0-4, Bus Master, and Ultra DMA 33/66/100 functionality. It has two HDD connectors IDE1 (primary) and IDE2 (secondary).

The IDE connectors can connect a master and a slave drive, so you can connect up to four hard disk drives. The first hard drive should always be connected to IDE1.



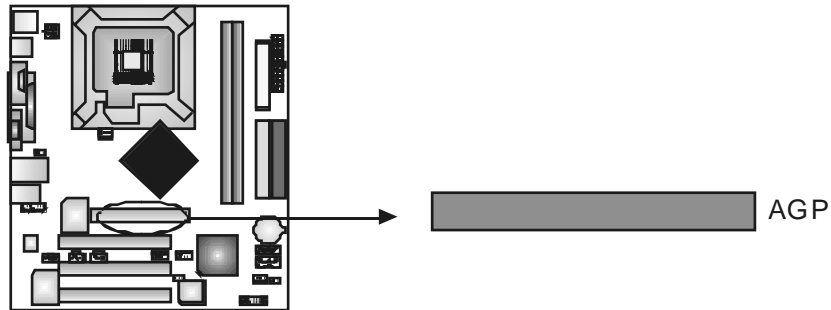
**PCI~PCI3: Peripheral Component Interconnect Slots**

This motherboard is equipped with 3 standard PCI slots. PCI stands for Peripheral Component Interconnect, and it is a bus standard for expansion cards. This PCI slot is designated as 32 bits.



**AGP1: Accelerated Graphics Port Slot ( 865G Micro 775 only )**

Your monitor will attach directly to that video card. This motherboard supports video cards for PCI slots, but it is also equipped with an Accelerated Graphics Port (AGP). An AGP card will take advantage of AGP technology for improved video efficiency and performance, especially with 3D graphics.



**XGP1: Xtreme Graphics Port Slot ( 865GV Micro 775 only )**

This XGP (Extreme Graphics Port) slot is a special design that only supports compatible AGP VGA cards.

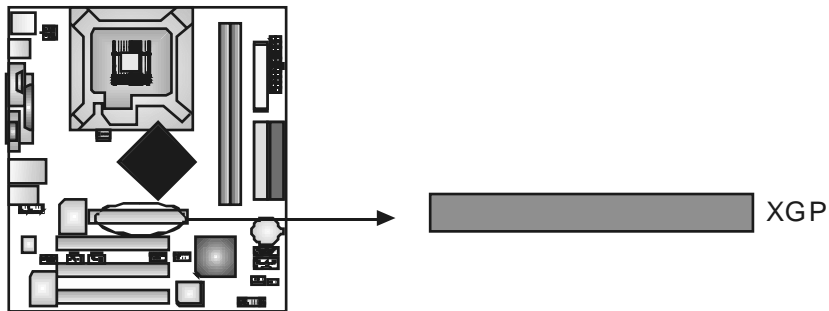
To install the system with an add-on AGP VGA card, please make sure to install the driver of add-on AGP VGA card before onboard VGA driver installation. If the onboard VGA driver has already been installed before you install the add-on AGP VGA card, the system will automatically set the onboard VGA as the primary graphics adapter.

For the onboard VGA driver can't be removed completely, and to solve this problem, please follow the steps below,

1. Disable onboard VGA utility under the operating system, and reboot PC. After PC restarts, the system will automatically set the AGP VGA card as the graphics adapter.
2. Or, re-install your operating system to ensure the AGP VGA card function can be used.

**Note:**

Please go to "<http://www.biostar.com.tw>" for more detailed information about XGP compatible AGP cards.



## CHAPTER 3: HEADERS & JUMPERS SETUP

### 3.1 HOW TO SETUP JUMPERS

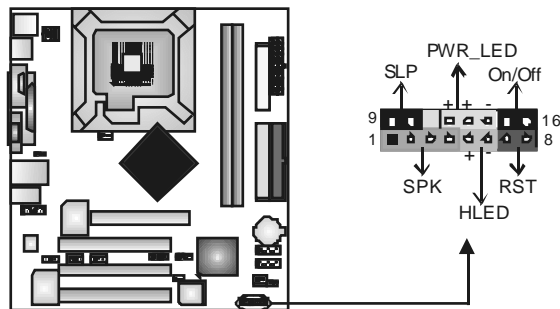
The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is “close”, if not, that means the jumper is “open”.



### 3.2 DETAIL SETTINGS

#### JPANEL1: Front Panel Header

This 16-pin connector includes Power-on, Reset, HDD LED, Power LED, Sleep button and speaker connection. It allows user to connect the PC case’s front panel switch functions.

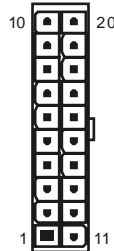
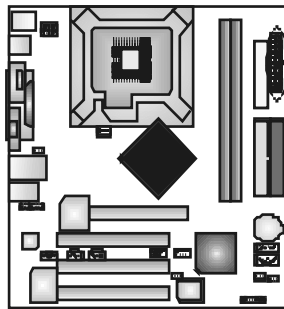


| Pin | Assignment    | Function          | Pin | Assignment    | Function        |
|-----|---------------|-------------------|-----|---------------|-----------------|
| 1   | +5V           | Speaker Connector | 9   | Sleep control | Sleep button    |
| 2   | N/A           |                   | 10  | Ground        |                 |
| 3   | N/A           |                   | 11  | N/A           | N/A             |
| 4   | Speaker       | Hard drive LED    | 12  | Power LED (+) | Power LED       |
| 5   | HDD LED (+)   |                   | 13  | Power LED (+) |                 |
| 6   | HDD LED (-)   | Reset button      | 14  | Power LED (-) | Power-on button |
| 7   | Ground        |                   | 15  | Power button  |                 |
| 8   | Reset control |                   | 16  | Ground        |                 |



**JATXPWR1: ATX Power Source Connector**

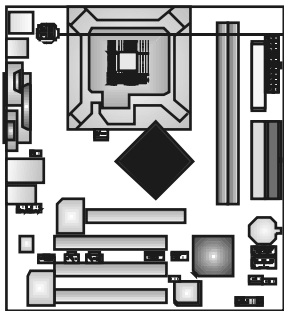
This connector allows user to connect 20-pin power connector on the ATX power supply.



| Pin | Assignment            |
|-----|-----------------------|
| 1   | +3.3V                 |
| 2   | +3.3V                 |
| 3   | Ground                |
| 4   | +5V                   |
| 5   | Ground                |
| 6   | +5V                   |
| 7   | Ground                |
| 8   | PW_OK                 |
| 9   | StandbyVoltage<br>+5V |
| 10  | +12V                  |
| 11  | +3.3V                 |
| 12  | -12V                  |
| 13  | Ground                |
| 14  | PS_ON                 |
| 15  | Ground                |
| 16  | Ground                |
| 17  | Ground                |
| 18  | -5V                   |
| 19  | +5V                   |
| 20  | +5V                   |

**JATXPWR2: ATX Power Source Connector**

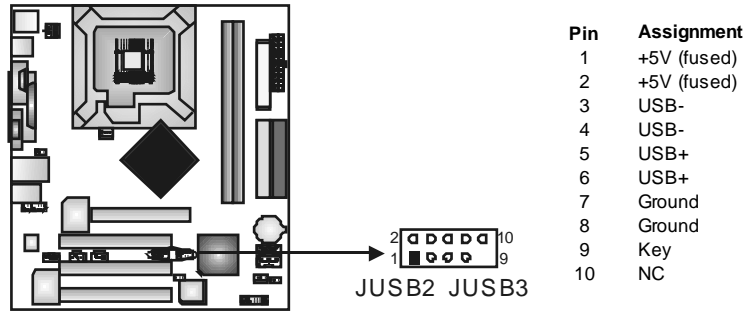
By connecting this connector, it will provide +12V to CPU power circuit.



| Pin | Assignment |
|-----|------------|
| 1   | +12V       |
| 2   | +12V       |
| 3   | Ground     |
| 4   | Ground     |

### JUSB2/JUSB3: Headers for USB 2.0 Ports at Front Panel

This header allows user to connect additional USB cable on the PC front panel, and also can be connected with internal USB devices, like USB card reader.



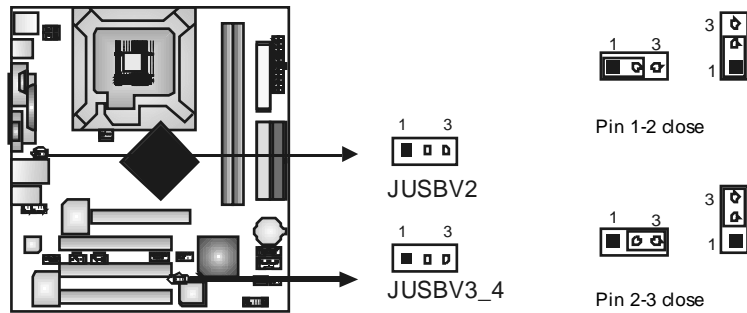
### JUSBV2/JUSBV3\_4: Power Source Headers for USB Ports (Optional for 865G Micro 775)

**Pin 1-2 Close:**

JUSBV2/JUSBV3\_4: +5V for USB ports at front panel (JUSB2/JUSB3).

**Pin 2-3 Close:**

JUSBV2/JUSBV3\_4: USB ports at front panel (JUSB2/JUSB3) are powered by +5V standby voltage.

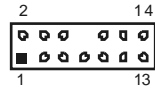
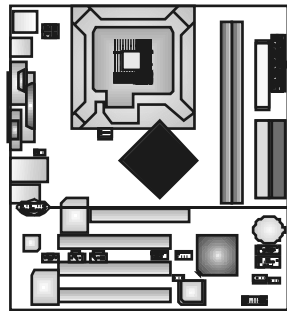


**Note:**

In order to support this function "Power-On system via USB device," "JUSBV2/JUSBV3\_4" jumper cap should be placed on Pin 2-3 individually.

**JAUDIO2: Front Panel Audio Header**

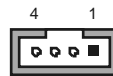
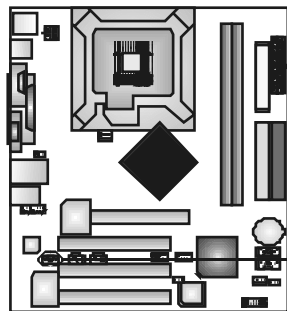
This header allows user to connect the front audio output cable with the PC front panel. It will disable the output on back panel audio connectors.



| Pin | Assignment                              |
|-----|---|
| 1   | Mic in/center                           |
| 2   | Ground                                  |
| 3   | Mic power/Bass                          |
| 4   | Audio power                             |
| 5   | Right line out/<br>Speaker out<br>Right |
| 6   | Right line out/<br>Speaker out<br>Right |
| 7   | Reserved                                |
| 8   | Key                                     |
| 9   | Left line out/<br>Speaker out Left      |
| 10  | Left line out/<br>Speaker out Left      |
| 11  | Right line in/<br>Rear speaker<br>Right |
| 12  | Right line in/<br>Rear speaker<br>Right |
| 13  | Left line in/<br>Rear speaker Left      |
| 14  | Left line in/<br>Rear speaker Left      |

**JCDIN1: CD-ROM Audio-in Connector**

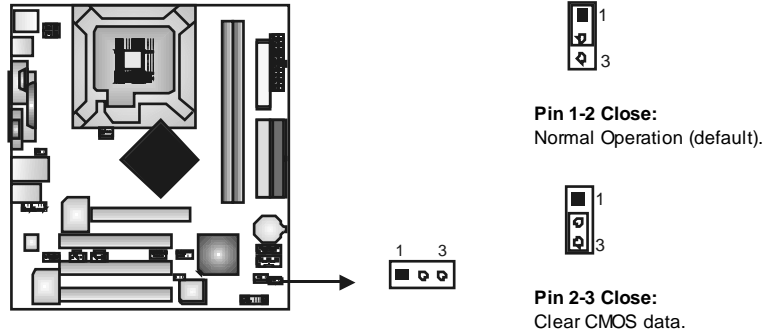
This connector allows user to connect the audio source from the variety devices, like CD-ROM, DVD-ROM, PCI sound card, PCI TV turner card etc..



| Pin | Assignment             |
|-----|------------------------|
| 1   | Left Channel<br>Input  |
| 2   | Ground                 |
| 3   | Ground                 |
| 4   | Right Channel<br>Input |

### JCMOS1: Clear CMOS Header

By placing the jumper on pin2-3, it allows user to restore the BIOS safe setting and the CMOS data, please carefully follow the procedures to avoid damaging the motherboard.

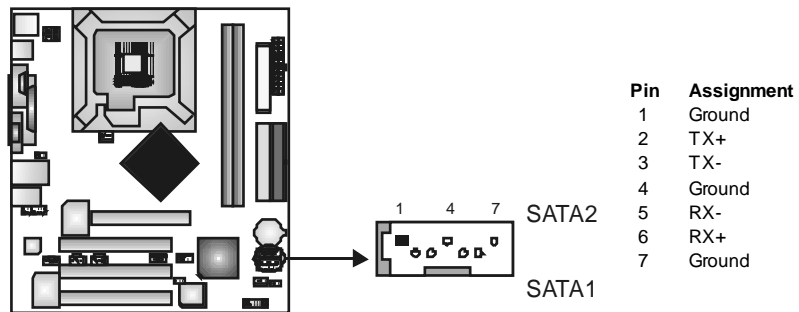


#### ※ Clear CMOS Procedures:

1. Remove AC power line.
2. Set the jumper to "Pin 2-3 close".
3. Wait for five seconds.
4. Set the jumper to "Pin 1-2 close".
5. Power on the AC.
6. Reset your desired password or clear the CMOS data.

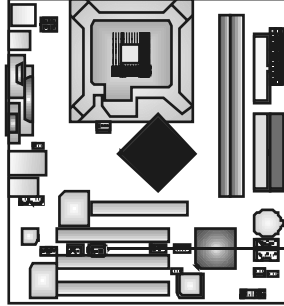
### JSATA1~JSATA2: Serial ATA Connectors

The motherboard has a PCI to SATA Controller with 2 channels SATA interface, it satisfies the SATA 1.0 spec and with transfer rate of 1.5Gb/s.

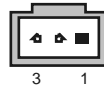


**JSPDIF\_OUT1: Digital Audio-out Connector**

This connector allows user to connect the PCI bracket SPDIF output header.

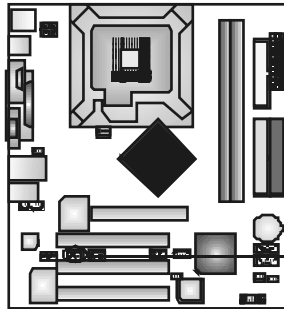


| Pin | Assignment |
|-----|------------|
| 1   | +5V        |
| 2   | SPDIF_OUT  |
| 3   | Ground     |

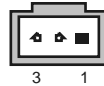


**JSPDIF\_IN1 (optional): Digital Audio-in Connector**

This connector allows user to connect the PCI bracket SPDIF input header.



| Pin | Assignment |
|-----|------------|
| 1   | +5V        |
| 2   | SPDIF_IN   |
| 3   | Ground     |

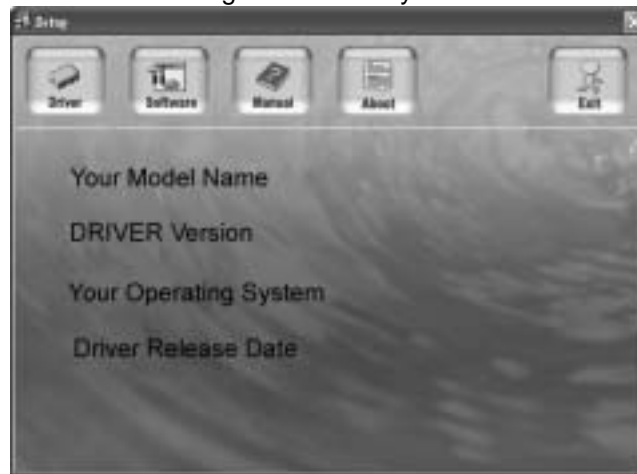


## **CHAPTER 4: USEFUL HELP**

### **4.1 DRIVER INSTALLATION NOTE**

After you installed your operating system, please insert the Fully Setup Driver CD into your optical drive and install the driver for better system performance.

You will see the following window after you insert the CD



The setup guide will auto detect your motherboard and operating system.

**Note:**

If this window didn't show up after you insert the Driver CD, please use file browser to locate and execute the file **SETUP.EXE** under your optical drive.

#### ***A. Driver Installation***

To install the driver, please click on the Driver icon. The setup guide will list the compatible driver for your motherboard and operating system. Click on each device driver to launch the installation program.

#### ***B. Software Installation***

To install the software, please click on the Software icon. The setup guide will list the software available for your system, click on each software title to launch the installation program.

#### ***C. Manual***

Aside from the paperback manual, we also provide manual in the Driver CD. Click on the Manual icon to browse for available manual.

**Note:**

You will need Acrobat Reader to open the manual file. Please download the latest version of Acrobat Reader software from <http://www.adobe.com/products/acrobat/readstep2.html>

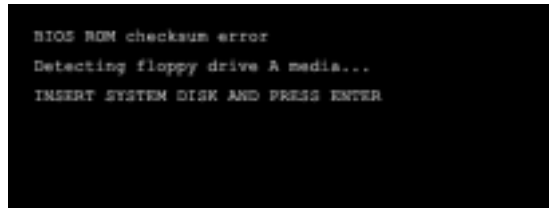
## 4.2 AWARD BIOS BEEP CODE

| Beep Sound                                | Meaning   |
|---|---|
| One long beep followed by two short beeps | Video card not found or video card memory bad         |
| High-low siren sound                      | CPU overheated<br>System will shut down automatically |
| One Short beep when system boot-up        | No error found during POST                            |
| Long beeps every other second             | No DRAM detected or install                           |

## 4.3 EXTRA INFORMATION

### A. BIOS Update

After you fail to update BIOS or BIOS is invaded by virus, the Boot-Block function will help to restore BIOS. If the following message is shown after boot-up the system, it means the BIOS contents are corrupted.



In this Case, please follow the procedure below to restore the BIOS:

1. Make a bootable floppy disk.
2. Download the Flash Utility "AWDFLASH.exe" from the Biostar website: [www.biostar.com.tw](http://www.biostar.com.tw)
3. Confirm motherboard model and download the respectively BIOS from Biostar website.
4. Copy "AWDFLASH.exe" and respectively BIOS into floppy disk.
5. Insert the bootable disk into floppy drive and press Enter.
6. System will boot-up to DOS prompt.
7. Type "*Awdflash xxxx.bf/sn/py/r*" in DOS prompt.  
(xxxx means BIOS name.)
8. System will update BIOS automatically and restart.
9. The BIOS has been recovered and will work properly.

### **B. CPU Overheated**

If the system shutdown automatically after power on system for seconds, that means the CPU protection function has been activated.

When the CPU is over heated, the motherboard will shutdown automatically to avoid a damage of the CPU, and the system may not power on again.

In this case, please double check:

1. The CPU cooler surface is placed evenly with the CPU surface.
2. CPU fan is rotated normally.
3. CPU fan speed is fulfilling with the CPU speed.

After confirmed, please follow steps below to relief the CPU protection function.

1. Remove the power cord from power supply for seconds.
2. Wait for seconds.
3. Plug in the power cord and boot up the system.

Or you can:

1. Clear the CMOS data.  
(See "Close CMOS Header: JCMOS1" section)
2. Wait for seconds.
3. Power on the system again.



## 4.4 TROUBLESHOOTING

| Probable   | Solution  |
|--|---|
| <ol style="list-style-type: none"> <li>No power to the system at all. Power light don't illuminate, fan inside power supply does not turn on.</li> <li>Indicator light on key board does not turn on.</li> </ol> | <ol style="list-style-type: none"> <li>Make sure power cable is securely plugged in.</li> <li>Replace cable.</li> <li>Contact technical support.</li> </ol>   |
| System inoperative. Keyboard lights are on, power indicator lights are lit, and hard drive is spinning.  | Using even pressure on both ends of the DIMM, press down firmly until the module snaps into place.  |
| System does not boot from hard disk drive, can be booted from optical drive.   | <ol style="list-style-type: none"> <li>Check cable running from disk to disk controller board. Make sure both ends are securely plugged in; check the drive type in the standard CMOS setup.</li> <li>Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time.</li> </ol> |
| System only boots from optical drive. Hard disk can be read and applications can be used but booting from hard disk is impossible.   | <ol style="list-style-type: none"> <li>Back up data and applications files.</li> <li>Reformat the hard drive. Re-install applications and data using backup disks.</li> </ol>   |
| Screen message says "Invalid Configuration" or "CMOS Failure."   | Review system's equipment. Make sure correct information is in setup.   |
| Cannot boot system after installing second hard drive.   | <ol style="list-style-type: none"> <li>Set master/slave jumpers correctly.</li> <li>Run SETUP program and select correct drive types. Call the drive manufacturers for compatibility with other drives.</li> </ol>  |

## **CHAPTER 5: WARPSPEEDER™**



### **5.1 INTRODUCTION**

[WarpSpeeder™], a new powerful control utility, features three user-friendly functions including Overclock Manager, Overvoltage Manager, and Hardware Monitor.

With the Overclock Manager, users can easily adjust the frequency they prefer or they can get the best CPU performance with just one click. The Overvoltage Manager, on the other hand, helps to power up CPU core voltage and Memory voltage. The cool Hardware Monitor smartly indicates the temperatures, voltage and CPU fan speed as well as the chipset information. Also, in the About panel, you can get detail descriptions about BIOS model and chipsets. In addition, the frequency status of CPU, memory, AGP and PCI along with the CPU speed are synchronically shown on our main panel.

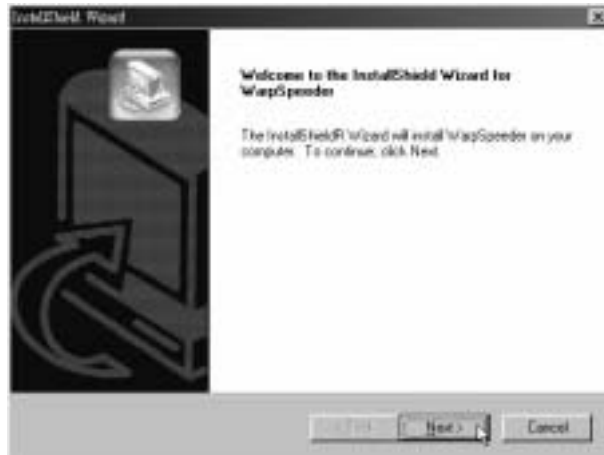
Moreover, to protect users' computer systems if the setting is not appropriate when testing and results in system fail or hang, [WarpSpeeder™] technology assures the system stability by automatically rebooting the computer and then restart to a speed that is either the original system speed or a suitable one.

### **5.2 SYSTEM REQUIREMENT**

OS Support: Windows 98 SE, Windows Me, Windows 2000, Windows XP  
DirectX: DirectX 8.1 or above. (The Windows XP operating system includes DirectX 8.1. If you use Windows XP, you do not need to install DirectX 8.1.)

### 5.3 INSTALLATION

1. Execute the setup execution file, and then the following dialog will pop up. Please click "Next" button and follow the default procedure to install.



2. When you see the following dialog in setup procedure, it means setup is completed. If the "Launch the WarpSpeeder Tray Utility" checkbox is checked, the Tray Icon utility and [WarpSpeeder™] utility will be automatically and immediately launched after you click "Finish" button.



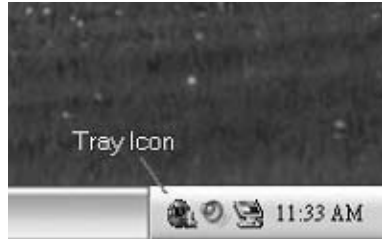
#### Usage:

The following figures are just only for reference, the screen printed in this user manual will change according to your motherboard on hand.

## 5.4 WARPSPEDER™

### 1. **Tray Icon:**

Whenever the Tray Icon utility is launched, it will display a little tray icon on the right side of Windows Taskbar.



This utility is responsible for conveniently invoking [WarpSpeeder™] Utility. You can use the mouse by clicking the left button in order to invoke [WarpSpeeder™] directly from the little tray icon or you can right-click the little tray icon to pop up a popup menu as following figure. The “Launch Utility” item in the popup menu has the same function as mouse left-click on tray icon and “Exit” item will close Tray Icon utility if selected.



## 2. Main Panel

If you click the tray icon, [WarpSpeeder™] utility will be invoked. Please refer to the following figure; the utility's first window you will see is Main Panel.

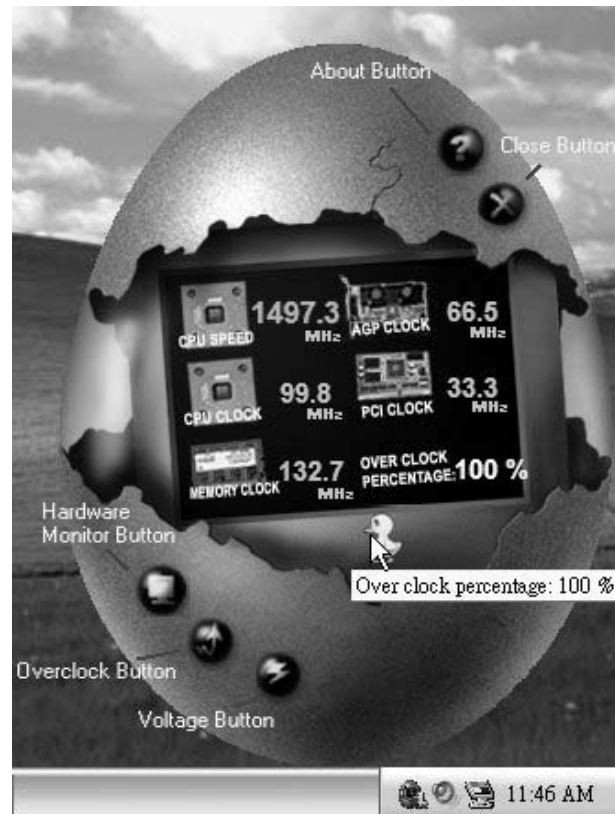
### Main Panel contains features as follows:

- Display the CPU Speed, CPU external dock, Memory dock, AGP dock, and PCI dock information.
- Contains About, Voltage, Overclock, and Hardware Monitor Buttons for invoking respective panels.
- With a user-friendly Status Animation, it can represent 3 overclock percentage stages:

Man walking → overclock percentage from 100% ~ 110 %

Panther running → overclock percentage from 110% ~ 120%

Car racing → overclock percentage from 120% ~ above



### 3. Voltage Panel

Click the Voltage button in Main Panel, the button will be highlighted and the Voltage Panel will slide out to up as the following figure.

In this panel, you can decide to increase CPU core voltage and Memory voltage or not. The default setting is "No". If you want to get the best performance of overlocking, we recommend you click the option "Yes".



#### 4. Overclock Panel

Click the Overclock button in Main Panel, the button will be highlighted and the Overclock Panel will slide out to left as the following figure.



**Overclock Panel contains the these features:**

- “-3MHz button”, “-1MHz button”, “+1MHz button”, and “+3MHz button”: provide user the ability to do real-time overclock adjustment.

**Warning:**

Manually overclock is potentially dangerous, especially when the overlocking percentage is over 110 %. We strongly recommend you verify every speed you overclock by click the Verify button. Or, you can just click Auto overclock button and let [WarpSpeeder™] automatically gets the best result for you.

- “Recovery Dialog button”: Pop up the following dialog. Let user select a restoring way if system need to do a fail-safe reboot.



- c. “Auto-overclock button”: User can click this button and [WarpSpeeder™] will set the best and stable performance and frequency automatically. [WarpSpeeder™] utility will execute a series of testing until system fail. Then system will do fail-safe reboot by using Watchdog function. After reboot, the [WarpSpeeder™] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog's setting.
- d. “Verify button”: User can click this button and [WarpSpeeder™] will proceed a testing for current frequency. If the testing is ok, then the current frequency will be saved into system registry. If the testing fail, system will do a fail-safe rebooting. After reboot, the [WarpSpeeder™] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog's setting.

**Note:**

Because the testing programs, invoked in Auto-overclock and Verify, include DirectDraw, Direct3D and DirectShow tests, the DirectX 8.1 or newer runtime library is required. And please make sure our display card's color depth is High color (16 bit) or True color (24/32 bit) that is required for Direct3D rendering.

**5. Hardware Monitor Panel**

Click the Hardware Monitor button in Main Panel, the button will be highlighted and the Hardware Monitor panel will slide out to left as the following figure.

In this panel, you can get the real-time status information of your system. The information will be refreshed every 1 second.

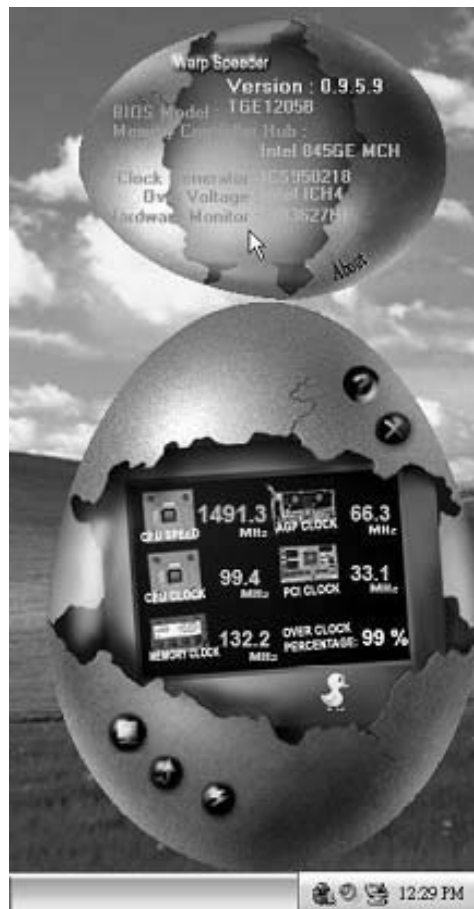




## 6. About Panel

Click the “about” button in Main Panel, the button will be highlighted and the About Panel will slide out to up as the following figure.

In this panel, you can get model name and detail information in hints of all the chipset that are related to overclocking. You can also get the mainboard’s BIOS model and the Version number of [WarpSpeeder™] utility.



### Note:

Because the overclock, overvoltage, and hardware monitor features are controlled by several separate chipset, [WarpSpeeder™] divide these features to separate panels. If one chipset is not on board, the correlative button in Main panel will be disabled, but will not interfere other panels’ functions. This property can make [WarpSpeeder™] utility more robust.

**APPENDENCIES: SPEC IN OTHER LANGUAGE****GERMAN**

|                 | <i>865G Micro 775</i>  | <i>865GV Micro 775</i>   |
|-----------------|--|--|
| CPU             | LGA 775<br>Intel Pentium 4 / Pentium D / Celeron D<br>Prozessoren mit bis zu 3,4 GHz<br>Intel Core2Duo Prozessoren (nur für Ver 8.x)<br>Unterstützt Hyper-Threading<br>Execute Disable Bit<br>Enhanced Intel SpeedStep®<br>Extended Memory 64 Technology | LGA 775<br>Intel Pentium 4 / Pentium D / Celeron D<br>Prozessoren mit bis zu 3,4 GHz<br>Unterstützt Hyper-Threading<br>Execute Disable Bit<br>Enhanced Intel SpeedStep®<br>Extended Memory 64 Technology |
| FSB             | 400/ 533 / 800 MHz   | 400/ 533 / 800 MHz   |
| Chipsatz        | Intel 865 G<br>Intel ICH5  | Intel 865 GV<br>Intel ICH5   |
| Grafik          | Intel Extreme Graphics 2<br>Max. 64MB gemeinsam benutzter<br>Videospeicher   | Intel Extreme Graphics 2<br>Max. 64MB gemeinsam benutzter<br>Videospeicher   |
| Super E/A       | ITE 8712F<br>Hardware-Überwachung<br>Lüfterdrehzahl-Controller<br>"Smart Guardian"-Funktion von ITE  | ITE 8712F<br>Hardware-Überwachung<br>Lüfterdrehzahl-Controller<br>"Smart Guardian"-Funktion von ITE  |
| Arbeitsspeicher | DDR DIMM-Steckplätze x 2<br>Jeder DIMM unterstützt 128/256/512MB & 1GB<br>DDR<br>Max. 2GB Arbeitsspeicher<br>Dual-Kanal DDR Speichermodul<br>Unterstützt DDR 266 / 333 / 400   | DDR DIMM-Steckplätze x 2<br>Jeder DIMM unterstützt 128/256/512MB & 1GB<br>DDR<br>Max. 2GB Arbeitsspeicher<br>Dual-Kanal DDR Speichermodul<br>Unterstützt DDR 266 / 333 / 400                             |
| IDE             | Integrierter IDE-Controller<br>Ultra DMA 33 / 66 / 100 Bus Master-Modus<br>Unterstützt PIO-Modus 0~4   | Integrierter IDE-Controller<br>Ultra DMA 33 / 66 / 100 Bus Master-Modus<br>Unterstützt PIO-Modus 0~4   |
| SATA            | Integrierter Serial ATA-Controller<br>Datenübertragungsraten bis zu 1.5Gb/s<br>Konform mit der SATA-Spezifikation Version 1.0  | Integrierter Serial ATA-Controller<br>Datenübertragungsraten bis zu 1.5Gb/s<br>Konform mit der SATA-Spezifikation Version 1.0  |
| LAN             | Realtek 8100C<br>10 / 100 Mb/s Auto-Negotiation<br>Halb-/Voll-duplex-Funktion  | Realtek 8100C<br>10 / 100 Mb/s Auto-Negotiation<br>Halb-/Voll-duplex-Funktion  |

865G Micro 775 & 865GV Micro 775

|                           | <i>865G Micro 775</i>   |                           | <i>865GV Micro 775</i>  |    |
|---------------------------|---|---------------------------|---|----|
| Audio-Codec               | ALC 655 / ALC 658<br>5.1-Kanal-Audioausgabe<br>AC'97 Version 2.3  |                           | ALC 655 / ALC 658<br>5.1-Kanal-Audioausgabe<br>AC'97 Version 2.3  |    |
| Steckplätze               | AGP 8X-Grafikkartensteckplatz   | x1                        | XGP Grafikkartensteckplatz  | x1 |
|                           | PCI-Steckplatz  | x3                        | PCI-Steckplatz  | x3 |
| Onboard-Anschluss         | Diskettenlaufwerkanschluss  | x1                        | Diskettenlaufwerkanschluss  | x1 |
|                           | IDE-Anschluss   | x2                        | IDE-Anschluss   | x2 |
|                           | SATA-Anschluss  | x2                        | SATA-Anschluss  | x2 |
|                           | Fronttafelanschluss   | x1                        | Fronttafelanschluss   | x1 |
|                           | Front-Audioanschluss  | x1                        | Front-Audioanschluss  | x1 |
|                           | CD-IN-Anschluss   | x1                        | CD-IN-Anschluss   | x1 |
|                           | S/PDIF-Ausgangsanschluss (optional)   | x1                        | S/PDIF-Ausgangsanschluss (optional)   | x1 |
|                           | S/PDIF Eingangsanschluss  | x1                        | S/PDIF Eingangsanschluss  | x1 |
|                           | CPU-Lüfter-Sockel   | x1                        | CPU-Lüfter-Sockel   | x1 |
|                           | System-Lüfter-Sockel  | x1                        | System-Lüfter-Sockel  | x1 |
|                           | "CMOS löschen"-Sockel   | x1                        | "CMOS löschen"-Sockel   | x1 |
|                           | USB-Anschluss   | x2                        | USB-Anschluss   | x2 |
| Stromanschluss (20-polig) | x1  | Stromanschluss (20-polig) | x1  |    |
| Stromanschluss (4-polig)  | x1  | Stromanschluss (4-polig)  | x1  |    |
| Rückseiten-E/A            | PS/2-Tastatur   | x1                        | PS/2-Tastatur   | x1 |
|                           | PS/2-Maus   | x1                        | PS/2-Maus   | x1 |
|                           | Serieller Anschluss   | x1                        | Serieller Anschluss   | x1 |
|                           | Druckeranschluss  | x1                        | Druckeranschluss  | x1 |
|                           | VGA-Anschluss   | x1                        | VGA-Anschluss   | x1 |
|                           | LAN-Anschluss   | x1                        | LAN-Anschluss   | x1 |
|                           | USB-Anschluss   | x4                        | USB-Anschluss   | x4 |
| Audioanschluss            | x3  | Audioanschluss            | x3  |    |
| Platinengröße             | 215 mm (B) X 235 mm (L)   |                           | 215 mm (B) X 235 mm (L)   |    |
| OS-Unterstützung          | Windows 2000 / XP<br>Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen. |                           | Windows 2000 / XP<br>Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen. |    |

## FRANCE

|                    | 865G Micro 775  | 865GM Micro 775   |
|--------------------|---|---|
| UC                 | LGA 775<br>Processeurs Intel Pentium 4/ Pentium D /<br>Celeron D jusqu'à 3,4 GHz<br>Processeurs Intel Core2Duo (Seulement pour<br>Ver 8.x)<br>Prend en charge les technologies<br>Hyper-Threading<br>d'exécution de bit de désactivation<br>Intel SpeedStep® optimisée<br>de mémoire étendue 64 | LGA 775<br>Processeurs Intel Pentium 4/ Pentium D /<br>Celeron D jusqu'à 3,4 GHz<br>Prend en charge les technologies<br>Hyper-Threading<br>d'exécution de bit de désactivation<br>Intel SpeedStep® optimisée<br>de mémoire étendue 64 |
| Bus frontal        | 400/ 533 / 800 MHz  | 400/ 533 / 800 MHz  |
| Chipset            | Intel 865G<br>Intel ICH5  | Intel 865GM<br>Intel ICH5   |
| Graphiques         | Intel Extreme Graphics 2<br>Mémoire vidéo partagée maximale de 64 Mo  | Intel Extreme Graphics 2<br>Mémoire vidéo partagée maximale de 64 Mo  |
| Super E/S          | ITE 8712F<br>Moniteur de matériel<br>Contrôleur de vitesse de ventilateur<br>Fonction "Garden intelligent" de l'ITE   | ITE 8712F<br>Moniteur de matériel<br>Contrôleur de vitesse de ventilateur<br>Fonction "Garden intelligent" de l'ITE   |
| Mémoire principale | Fentes DDR DIMM x 2<br>Chaque DIMM prend en charge des DDR de<br>128/256/512 Mo et 1Go<br>Capacité mémoire maximale de 2 Go<br>Module de mémoire DDR à mode à double voie<br>Prend en charge la DDR 266 / 333 / 400   | Fentes DDR DIMM x 2<br>Chaque DIMM prend en charge des DDR de<br>128/256/512 Mo et 1Go<br>Capacité mémoire maximale de 2 Go<br>Module de mémoire DDR à mode à double voie<br>Prend en charge la DDR 266 / 333 / 400                   |
| IDE                | Contrôleur IDE intégré<br>Mode principale de Bus Ultra DMA 33 / 66 / 100<br>Prend en charge le mode PIO 0~4   | Contrôleur IDE intégré<br>Mode principale de Bus Ultra DMA 33 / 66 / 100<br>Prend en charge le mode PIO 0~4   |
| SATA               | Contrôleur Serial ATA intégré :<br>Taux de transfert jusqu'à 1.5 Go/s.<br>Conforme à la spécification SATA Version 1.0  | Contrôleur Serial ATA intégré :<br>Taux de transfert jusqu'à 1.5 Go/s.<br>Conforme à la spécification SATA Version 1.0  |
| LAN                | Realtek 8100C<br>10 / 100 Mb/s négociation automatique<br>Half / Full duplex capability   | Realtek 8100C<br>10 / 100 Mb/s négociation automatique<br>Half / Full duplex capability   |

865G Micro 775 & 865GV Micro 775

|                        | 865G Micro 775  | 865GV Micro 775   |
|------------------------|---|---|
| Codec audio            | ALC 655 / ALC658<br>Sortie audio à 5.1 voies<br>AC'97 Version 2.3   | ALC 655 / ALC658<br>Sortie audio à 5.1 voies<br>AC'97 Version 2.3   |
| Fentes                 | Fente graphique AGP 8X x1<br>Fente PCI x3   | Fente graphique XGP x1<br>Fente PCI x3  |
| Connecteur embarqué    | Connecteur de disquette x1<br>Connecteur IDE x2<br>Connecteur SATA x2<br>Connecteur du panneau avant x1<br>Connecteur Audio du panneau avant x1<br>Connecteur d'entrée CD x1<br>Connecteur d'entrée S/PDIF (en option) x1<br>Connecteur de sortie S/PDIF x1<br>Embase de ventilateur UC x1<br>Embase de ventilateur système x1<br>Embase d'effacement CMOS x1<br>Connecteur USB x2<br>Connecteur d'alimentation (20 broches) x1<br>Connecteur d'alimentation (4 broches) x1 | Connecteur de disquette x1<br>Connecteur IDE x2<br>Connecteur SATA x2<br>Connecteur du panneau avant x1<br>Connecteur Audio du panneau avant x1<br>Connecteur d'entrée CD x1<br>Connecteur d'entrée S/PDIF (en option) x1<br>Connecteur de sortie S/PDIF x1<br>Embase de ventilateur UC x1<br>Embase de ventilateur système x1<br>Embase d'effacement CMOS x1<br>Connecteur USB x2<br>Connecteur d'alimentation (20 broches) x1<br>Connecteur d'alimentation (4 broches) x1 |
| E/S du panneau arrière | Clavier PS/2 x1<br>Souris PS/2 x1<br>Port série x1<br>Port d'imprimante x1<br>Port VGA x1<br>Port LAN x1<br>Port USB x4<br>Fiche audio x3   | Clavier PS/2 x1<br>Souris PS/2 x1<br>Port série x1<br>Port d'imprimante x1<br>Port VGA x1<br>Port LAN x1<br>Port USB x4<br>Fiche audio x3   |
| Dimensions de la carte | 215mm (l) X 235mm (H)   | 215mm (l) X 235mm (H)   |
| Support SE             | Windows 2000 / XP<br>Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis.   | Windows 2000 / XP<br>Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis.   |

**ITALIAN**

|                    | <i>865G Micro 775</i>  | <i>865GM Micro 775</i>   |
|--------------------|--|--|
| CPU                | LGA 775<br>Processore Intel Pentium 4 / Pentium D / Celeron D fino a 3.4 GHz<br>Processore Intel Core2Duo (solo per Ver 8.x)<br>Supporto di Hyper-Threading<br>Execute Disable Bit<br>Enhanced Intel SpeedStep®<br>Tecnologia Extended Memory 64 | LGA 775<br>Processore Intel Pentium 4 / Pentium D / Celeron D fino a 3.4 GHz<br>Supporto di Hyper-Threading<br>Execute Disable Bit<br>Enhanced Intel SpeedStep®<br>Tecnologia Extended Memory 64 |
| FSB                | 400 / 533 / 800 MHz  | 400 / 533 / 800 MHz  |
| Chipset            | Intel 865G<br>Intel ICH5   | Intel 865GM<br>Intel ICH5  |
| Grafica            | Intel Extreme Graphics 2<br>La memoria video condivisa massima è di 64MB   | Intel Extreme Graphics 2<br>La memoria video condivisa massima è di 64MB   |
| Super I/O          | ITE 8712F<br>Monitoraggio hardware<br>Controller velocità ventolina<br>Funzione "Smart Guardian" di ITE  | ITE 8712F<br>Monitoraggio hardware<br>Controller velocità ventolina<br>Funzione "Smart Guardian" di ITE  |
| Memoria principale | Alloggi DIMM DDR x 2<br>Ciascun DIMM supporta DDR<br>128/256/512MB e 1GB<br>Capacità massima della memoria a 2GB<br>Modulo di memoria DDR a canale doppio<br>Supporto di DDR 266 / 333 / 400   | Alloggi DIMM DDR x 2<br>Ciascun DIMM supporta DDR<br>128/256/512MB e 1GB<br>Capacità massima della memoria a 2GB<br>Modulo di memoria DDR a canale doppio<br>Supporto di DDR 266 / 333 / 400     |
| IDE                | Controller IDE integrato<br>Modalità Bus Master Ultra DMA 33 / 66 / 100<br>Supporto modalità PIO Mode 0-4  | Controller IDE integrato<br>Modalità Bus Master Ultra DMA 33 / 66 / 100<br>Supporto modalità PIO Mode 0-4  |
| SATA               | Controller Serial ATA integrato<br>Velocità di trasferimento dei dati fino a 1.5 Gb/s.<br>Compatibile specifiche SATA Versione 1.0.  | Controller Serial ATA integrato<br>Velocità di trasferimento dei dati fino a 1.5 Gb/s.<br>Compatibile specifiche SATA Versione 1.0.  |

## 865G Micro 775 &amp; 865GV Micro 775

|                              | <i>865G Micro 775</i>  |  | <i>865GV Micro 775</i>   |  |
|------------------------------|--|--|--|--|
| LAN                          | Realtek 8100C<br>Negoziazione automatica 10 / 100 Mb/s<br>Capacità Half / Full Duplex  |  | Realtek 8100C<br>Negoziazione automatica 10 / 100 Mb/s<br>Capacità Half / Full Duplex  |  |
| Codec audio                  | ALC 655 / ALC 658<br>Uscita audio 5.1 canali<br>AC'97 Versione 2.3   |  | ALC 655 / ALC 658<br>Uscita audio 5.1 canali<br>AC'97 Versione 2.3   |  |
| Alloggi                      | Alloggio grafica A GP 8X<br>Alloggio PCI   | x1<br>x3   | Alloggio grafica X GP<br>Alloggio PCI  | x1<br>x3   |
| Connettori su scheda         | Connettore floppy<br>Connettore IDE<br>Connettore SATA<br>Connettore pannello frontale<br>Connettore audio frontale<br>Connettore CD-in<br>Connettore input S/PDIF (optional)<br>Connettore output SPDIF<br>Collettore ventolina CPU<br>Collettore ventolina sistema<br>Collettore cancellazione CMOS<br>Connettore USB<br>Connettore alimentazione (20 pin)<br>Connettore alimentazione (4 pin) | x1<br>x2<br>x2<br>x1<br>x1<br>x1<br>x1<br>x1<br>x1<br>x1<br>x1<br>x2<br>x1<br>x1 | Connettore floppy<br>Connettore IDE<br>Connettore SATA<br>Connettore pannello frontale<br>Connettore audio frontale<br>Connettore CD-in<br>Connettore input S/PDIF (optional)<br>Connettore output SPDIF<br>Collettore ventolina CPU<br>Collettore ventolina sistema<br>Collettore cancellazione CMOS<br>Connettore USB<br>Connettore alimentazione (20 pin)<br>Connettore alimentazione (4 pin) | x1<br>x2<br>x2<br>x1<br>x1<br>x1<br>x1<br>x1<br>x1<br>x1<br>x2<br>x1<br>x1 |
| I/O pannello posteriore      | Tastiera PS/2<br>Mouse PS/2<br>Porta seriale<br>Porta stampante<br>Porta VGA<br>Porta LAN<br>Porta USB<br>Connettore audio   | x1<br>x1<br>x1<br>x1<br>x1<br>x1<br>x4<br>x3                                     | Tastiera PS/2<br>Mouse PS/2<br>Porta seriale<br>Porta stampante<br>Porta VGA<br>Porta LAN<br>Porta USB<br>Connettore audio   | x1<br>x1<br>x1<br>x1<br>x1<br>x1<br>x4<br>x3                               |
| Dimensioni scheda            | 215 mm (larghezza) x 235 mm (altezza)  |  | 215 mm (larghezza) x 235 mm (altezza)  |  |
| Sistemi operativi supportati | Windows 2000 / XP<br>Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.   |  | Windows 2000 / XP<br>Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.   |  |

## SPANISH

|                   | 865G Micro 775  | 865GV Micro 775  |
|-------------------|---|--|
| CPU               | LGA 775<br>Procesador Intel Pentium 4 / Pentium D / Celeron D hasta 3,4 GHz<br>Procesador Intel Core2Duo (además para Ver 8.x)<br>Admite Hyper-Threading<br>Bit de deshabilitación de ejecución<br>Intel SpeedStep® Mejorado<br>Tecnología Extended Memory 64 | LGA 775<br>Procesador Intel Pentium 4 / Pentium D / Celeron D hasta 3,4 GHz<br>Admite Hyper-Threading<br>Bit de deshabilitación de ejecución<br>Intel SpeedStep® Mejorado<br>Tecnología Extended Memory 64 |
| FSB               | 400 / 533 / 800 MHz   | 400 / 533 / 800 MHz  |
| Conjunto de chips | Intel 865G<br>Intel ICH5  | Intel 865GV<br>Intel ICH5  |
| Gráficos          | Intel Extreme Graphics 2<br>Memoria máxima de vídeo compartida de 64MB  | Intel Extreme Graphics 2<br>Memoria máxima de vídeo compartida de 64MB   |
| Súper E/S         | ITE 8712F<br>Monitor hardware<br>Controlador de velocidad de ventilador<br>Función "Guarda inteligente" de ITE  | ITE 8712F<br>Monitor hardware<br>Controlador de velocidad de ventilador<br>Función "Guarda inteligente" de ITE   |
| Memoria principal | Ranuras DIMM DDR x 2<br>Cada DIMM admite DDR de 128/256/512MB y 1GB<br>Capacidad máxima de memoria de 2GB<br>Módulo de memoria DDR de canal Doble<br>Admite DDR de 266 / 333 / 400  | Ranuras DIMM DDR x 2<br>Cada DIMM admite DDR de 128/256/512MB y 1GB<br>Capacidad máxima de memoria de 2GB<br>Módulo de memoria DDR de canal Doble<br>Admite DDR de 266 / 333 / 400                         |
| IDE               | Controlador IDE integrado<br>Modo bus maestro Ultra DMA 33 / 66 / 100<br>Soporta los Modos PIO 0~4.   | Controlador IDE integrado<br>Modo bus maestro Ultra DMA 33 / 66 / 100<br>Soporta los Modos PIO 0~4.  |
| SATA              | Controlador ATA Serie Integrado<br>Tasas de transferencia de hasta 1.5 Gb/s.<br>Compatible con la versión SATA 1.0.   | Controlador ATA Serie Integrado<br>Tasas de transferencia de hasta 1.5 Gb/s.<br>Compatible con la versión SATA 1.0.  |
| Red Local         | Realtek 8100C<br>Negociación de 10 / 100 Mb/s<br>Funciones Half / Full dúplex   | Realtek 8100C<br>Negociación de 10 / 100 Mb/s<br>Funciones Half / Full dúplex  |



865G Micro 775 & 865GV Micro 775

|  | 865G Micro 775   |  | 865GV Micro 775  |    |
|--|--|--|--|----|
| Códecs de sonido                       | ALC 655 /ALC 658<br>Salida desonido de 5.1 canales<br>AC'97 Versión 2.3                              |  | ALC 655 /ALC 658<br>Salida desonido de 5.1 canales<br>AC'97 Versión 2.3                              |    |
| Ranuras                                | Ranura de gráficos AGP x8  | x1                                     | Ranura de gráficos XGP   | x1 |
|  | Ranura PCI   | X3                                     | Ranura PCI   | X3 |
| Conectores en placa                    | Conector disco flexible  | X1                                     | Conector disco flexible  | X1 |
|  | Conector IDE   | X2                                     | Conector IDE   | X2 |
|  | Conector SATA  | X2                                     | Conector SATA  | X2 |
|  | Conector de panel frontal  | X1                                     | Conector de panel frontal  | X1 |
|  | Conector de sonido frontal   | X1                                     | Conector de sonido frontal   | X1 |
|  | Conector de entrada de CD  | X1                                     | Conector de entrada de CD  | X1 |
|  | Conector de entrada S/PDIF (opcional)  | x1                                     | Conector de entrada S/PDIF (opcional)  | x1 |
|  | Conector de salida S/PDIF  | X1                                     | Conector de salida S/PDIF  | X1 |
|  | Cabecera de ventilador de CPU  | X1                                     | Cabecera de ventilador de CPU  | X1 |
|  | Cabecera de ventilador de sistema  | X1                                     | Cabecera de ventilador de sistema  | X1 |
|  | Cabecera de borrado de CMOS  | X1                                     | Cabecera de borrado de CMOS  | X1 |
|  | Conector USB   | X2                                     | Conector USB   | X2 |
| Conector de alimentación (20 patillas) | X1   | Conector de alimentación (20 patillas) | X1   |    |
| Conector de alimentación (4 patillas)  | X1   | Conector de alimentación (4 patillas)  | X1   |    |
| Panel trasero de E/S                   | Teclado PS/2   | X1                                     | Teclado PS/2   | X1 |
|  | Ratón PS/2   | X1                                     | Ratón PS/2   | X1 |
|  | Puerto serie   | X1                                     | Puerto serie   | X1 |
|  | Puerto de impresora  | X1                                     | Puerto de impresora  | X1 |
|  | Puerto VGA   | X1                                     | Puerto VGA   | X1 |
|  | Puerto de red local  | X1                                     | Puerto de red local  | X1 |
|  | Puerto USB   | X4                                     | Puerto USB   | X4 |
| Conector de sonido                     | X3   | Conector de sonido                     | X3   |    |
| Tamaño de la placa                     | 215 mm. (A) X 235 mm. (H)  |  | 215 mm. (A) X 235 mm. (H)  |    |
| Soporte de sistema operativo           | Windows 2000 / XP  |  | Windows 2000 / XP  |    |
|  | Bióstar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo. |  | Bióstar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo. |    |

**PORTUGUESE**

|                            | <i>865G Micro 775</i>   | <i>865GV Micro 775</i>   |
|----------------------------|---|--|
| CPU                        | LGA 775<br>Processador Intel Pentium 4 / Pentium D /<br>Celeron D até 3,4 GHz<br>Processador Intel Core2Duo (apenas para os<br>modelos Ver 8.x)<br>Suporta as tecnologias Hyper-Threading<br>Execute Disable Bit<br>Enhanced Intel SpeedStep®<br>Extended Memory 64 | LGA 775<br>Processador Intel Pentium 4 / Pentium D /<br>Celeron D até 3,4 GHz<br>Suporta as tecnologias Hyper-Threading<br>Execute Disable Bit<br>Enhanced Intel SpeedStep®<br>Extended Memory 64                |
| FSB                        | 400/ 533 / 800 MHz  | 400/ 533 / 800 MHz   |
| Chipset                    | Intel 865G<br>Intel ICH5  | Intel 865GV<br>Intel ICH5  |
| Placa gráfica              | Intel Extreme Graphics 2<br>Memória de vídeo máxima partilhada: 64 MB   | Intel Extreme Graphics 2<br>Memória de vídeo máxima partilhada: 64 MB  |
| Especificação do Super I/O | ITE 8712F<br>Monitorização do hardware<br>Controlador da velocidade da ventoinha<br>Função "Smart Guardian" da ITE  | ITE 8712F<br>Monitorização do hardware<br>Controlador da velocidade da ventoinha<br>Função "Smart Guardian" da ITE   |
| Memória principal          | Ranuras DIMM DDR x2<br>Cada módulo DIMM suporta uma memória DDR<br>de 128/256/512 MB & 1 GB<br>Capacidade máxima de memória: 2 GB<br>Módulo de memória DDR de canal duplo<br>Suporta módulos DDR 266 / 333 / 400  | Ranuras DIMM DDR x2<br>Cada módulo DIMM suporta uma memória DDR<br>de 128/256/512 MB & 1 GB<br>Capacidade máxima de memória: 2 GB<br>Módulo de memória DDR de canal duplo<br>Suporta módulos DDR 266 / 333 / 400 |
| IDE                        | Controlador IDE integrado<br>Modo Bus master Ultra DMA 33 / 66 / 100<br>Suporta o modo PIO 0~4.   | Controlador IDE integrado<br>Modo Bus master Ultra DMA 33 / 66 / 100<br>Suporta o modo PIO 0~4.  |
| SATA                       | Controlador Serial ATA integrado<br>Velocidades de transmissão de dados até 1.5<br>Gb/s.<br>Compatibilidade com a especificação SATA<br>versão 1.0.   | Controlador Serial ATA integrado<br>Velocidades de transmissão de dados até 1.5<br>Gb/s.<br>Compatibilidade com a especificação SATA<br>versão 1.0.  |

## 865G Micro 775 &amp; 865GV Micro 775

|                                    | <i>865G Micro 775</i>   |  | <i>865GV Micro 775</i>  |  |
|------------------------------------|---|--|---|--|
| LAN                                | Realtek 8100C<br>Auto negociação de 10 / 100 Mb/s<br>Capacidade semi/full-duplex  |  | Realtek 8100C<br>Auto negociação de 10 / 100 Mb/s<br>Capacidade semi/full-duplex  |  |
| Codec de som                       | ALC 655 / ALC 658<br>Saída de áudio de 5.1 canais<br>AC'97 Versão 2.3   |  | ALC 655 / ALC 658<br>Saída de áudio de 5.1 canais<br>AC'97 Versão 2.3   |  |
| Ranhuras                           | Ranhura gráfica AGP 8X<br>Ranhura PCI   | x1<br>x3   | Ranhura gráfica XGP<br>Ranhura PCI  | x1<br>x3   |
| Conectores na placa                | Conector da unidade de disquetes<br>Conector IDE<br>Conector SATA<br>Conector do painel frontal<br>Conector de áudio frontal<br>Conector para entrada de CDs<br>Conector de entrada S/PDIF (opcional)<br>Conector de saída S/PDIF<br>Conector da verticinha da CPU<br>Conector da verticinha do sistema<br>Conector para limpeza do CMOS<br>Conector USB<br>Conector de alimentação (20 pinos)<br>Conector de alimentação (4 pinos) | x1<br>x2<br>x2<br>x1<br>x1<br>x1<br>x1<br>x1<br>x1<br>x1<br>x1<br>x2<br>x1<br>x1 | Conector da unidade de disquetes<br>Conector IDE<br>Conector SATA<br>Conector do painel frontal<br>Conector de áudio frontal<br>Conector para entrada de CDs<br>Conector de entrada S/PDIF (opcional)<br>Conector de saída S/PDIF<br>Conector da verticinha da CPU<br>Conector da verticinha do sistema<br>Conector para limpeza do CMOS<br>Conector USB<br>Conector de alimentação (20 pinos)<br>Conector de alimentação (4 pinos) | x1<br>x2<br>x2<br>x1<br>x1<br>x1<br>x1<br>x1<br>x1<br>x1<br>x1<br>x2<br>x1<br>x1 |
| Entradas/Saídas no painel traseiro | Teclado PS/2<br>Rato PS/2<br>Porta série<br>Porta para impressora<br>Porta VGA<br>Porta LAN<br>Porta USB<br>Tomada de áudio   | x1<br>x1<br>x1<br>x1<br>x1<br>x1<br>x4<br>x3                                     | Teclado PS/2<br>Rato PS/2<br>Porta série<br>Porta para impressora<br>Porta VGA<br>Porta LAN<br>Porta USB<br>Tomada de áudio   | x1<br>x1<br>x1<br>x1<br>x1<br>x1<br>x4<br>x3                                     |
| Tamanho da placa                   | 215 mm (L) X 235 mm (A)   |  | 215 mm (L) X 235 mm (A)   |  |
| Sistemas operativos suportados     | Windows 2000 / XP<br>A Biostar reserva-se o direito de adicionar ou remover suporte para qualquer sistema operativo com ou sem aviso prévio.  |  | Windows 2000 / XP<br>A Biostar reserva-se o direito de adicionar ou remover suporte para qualquer sistema operativo com ou sem aviso prévio.  |  |

**POLISH**

|               | <i>865G Micro 775</i>   | <i>865GV Micro 775</i>  |
|---------------|---|---|
| Procesor      | LGA 775<br>Procesor Intel Pentium 4 / Pentium D / Celeron D do 3,4 GHz<br>Procesor Intel Core2Duo (wyłącznie dla Ver 8.x)<br>Obsługa Hyper-Threading<br>Execute Disable Bit<br>Enhanced Intel SpeedStep®<br>Extended Memory 64 Technology | LGA 775<br>Procesor Intel Pentium 4 / Pentium D / Celeron D do 3,4 GHz<br>Obsługa Hyper-Threading<br>Execute Disable Bit<br>Enhanced Intel SpeedStep®<br>Extended Memory 64 Technology              |
| FSB           | 400/ 533 / 800 MHz  | 400/ 533 / 800 MHz  |
| Chipset       | Intel 865G<br>Intel ICH5  | Intel 865GV<br>Intel ICH5   |
| Grafika       | Intel Extreme Graphics 2<br>Maks. wielkość współdzielonej pamięci video wynosi 64MB   | Intel Extreme Graphics 2<br>Maks. wielkość współdzielonej pamięci video wynosi 64MB   |
| Pamięć główna | Gniazda DDR DIMM x 2<br>Każde gniazdo DIMM obsługuje moduły 128/256/512MB oraz 1GB DDR<br>Maks. wielkość pamięci 2GB<br>Moduł pamięci DDR z trybem podwójnego kanału<br>Obsługa DDR 266 / 333 / 400                                       | Gniazda DDR DIMM x 2<br>Każde gniazdo DIMM obsługuje moduły 128/256/512MB oraz 1GB DDR<br>Maks. wielkość pamięci 2GB<br>Moduł pamięci DDR z trybem podwójnego kanału<br>Obsługa DDR 266 / 333 / 400 |
| Super I/O     | ITE 8712F<br>Monitor H/W<br>Kontroler prędkości wentylatora<br>Funkcja ITE "Smart Guardian"   | ITE 8712F<br>Monitor H/W<br>Kontroler prędkości wentylatora<br>Funkcja ITE "Smart Guardian"   |
| IDE           | Zintegrowany kontroler IDE<br>Ultra DMA 33 / 66 / 100 Tryb Bus Master<br>obsługa PIO tryb 0~4   | Zintegrowany kontroler IDE<br>Ultra DMA 33 / 66 / 100 Tryb Bus Master<br>obsługa PIO tryb 0~4   |
| SATA          | Zintegrowany kontroler Serial ATA<br>Transfer danych do 1.5 Gb/s.<br>Zgodność ze specyfikacją SATA w wersji 1.0.  | Zintegrowany kontroler Serial ATA<br>Transfer danych do 1.5 Gb/s.<br>Zgodność ze specyfikacją SATA w wersji 1.0.  |
| LAN           | Realtek 8100C<br>10 / 100 Mb/s z automatyczną negocjacją szybkości  | Realtek 8100C<br>10 / 100 Mb/s z automatyczną negocjacją szybkości  |

## 865G Micro 775 &amp; 865GV Micro 775

|  | <i>865G Micro 775</i>  |                             | <i>865GV Micro 775</i>   |    |
|--|--|-----------------------------|--|----|
|  | Działanie w trybie półowicznego / pełnego<br>dupleksu  |                             | Działanie w trybie półowicznego / pełnego<br>dupleksu  |    |
| Kodek<br>dźwiękowy                     | ALC 655 / ALC 658<br>5.1 kanałowe wyjście audio<br>AC'97 w wersji 2.3  |                             | ALC 655 / ALC 658<br>5.1 kanałowe wyjście audio<br>AC'97 w wersji 2.3  |    |
| Gniazda                                | Gniazdo grafiki AGP 8X   | x1                          | Gniazdo grafiki XGP  | x1 |
|  | Gniazdo PCI  | x3                          | Gniazdo PCI  | x3 |
| Złącza<br>wbudowane                    | Złącze napędu dyskiętek  | x1                          | Złącze napędu dyskiętek  | x1 |
|  | Złącze IDE   | x2                          | Złącze IDE   | x2 |
|  | Złącze SATA  | x2                          | Złącze SATA  | x2 |
|  | Złącze panela przedniego   | x1                          | Złącze panela przedniego   | x1 |
|  | Przednie złącze audio  | x1                          | Przednie złącze audio  | x1 |
|  | Złącze wejścia CD  | x1                          | Złącze wejścia CD  | x1 |
|  | Złącze wejścia S/PDIF (opcja)  | x1                          | Złącze wejścia S/PDIF (opcja)  | x1 |
|  | Złącze wyjścia S/PDIF  | x1                          | Złącze wyjścia S/PDIF  | x1 |
|  | Złącze główkowe wentylatora procesora  | x1                          | Złącze główkowe wentylatora procesora  | x1 |
|  | Złącze główkowe wentylatora<br>systemowego   | x1                          | Złącze główkowe wentylatora<br>systemowego   | x1 |
|  | Złącze główkowe kasowania CMOS   | x1                          | Złącze główkowe kasowania CMOS   | x1 |
|  | Złącze USB   | x2                          | Złącze USB   | x2 |
|  | Złącze zasilania (20 pinowe)   | x1                          | Złącze zasilania (20 pinowe)   | x1 |
| Złącze zasilania (4 pinowe)            | x1   | Złącze zasilania (4 pinowe) | x1   |    |
| Back Panel<br>I/O                      | Klawiatura PS/2  | x1                          | Klawiatura PS/2  | x1 |
|  | Mysz PS/2  | x1                          | Mysz PS/2  | x1 |
|  | Port szeregowy   | x1                          | Port szeregowy   | x1 |
|  | Port drukarki  | x1                          | Port drukarki  | x1 |
|  | Port VGA   | x1                          | Port VGA   | x1 |
|  | Port LAN   | x1                          | Port LAN   | x1 |
|  | Port USB   | x4                          | Port USB   | x4 |
| Gniazdo audio                          | x3   | Gniazdo audio               | x3   |    |
| Wymiary<br>płyty                       | 215 mm (S) X 235 mm (W)  |                             | 215 mm (S) X 235 mm (W)  |    |
| Obsługa<br>systemu<br>operacyjne<br>go | Windows 2000 / XP<br>Biostar zastrzega sobie prawo dodawania lub<br>odwoływania obsługi dowolnego systemu<br>operacyjnego bez powiadomienia. |                             | Windows 2000 / XP<br>Biostar zastrzega sobie prawo dodawania lub<br>odwoływania obsługi dowolnego systemu<br>operacyjnego bez powiadomienia. |    |

**RUSSIAN**

|                                | <i>865G Micro 775</i>   | <i>865GV Micro 775</i>   |
|--------------------------------|---|--|
| CPU<br>(центральный процессор) | LGA 775<br>Процессор Intel Pentium 4 / Pentium D / Celeron D до 3.4 ГГц<br>Процессор Intel Core2Duo (только для Ver 8.x)<br>Поддержка технологий Hyper-Threading<br>Execute Disable Bit<br>Enhanced Intel SpeedStep®<br>Extended Memory 64 Technology | LGA 775<br>Процессор Intel Pentium 4 / Pentium D / Celeron D до 3.4 ГГц<br>Поддержка технологий Hyper-Threading<br>Execute Disable Bit<br>Enhanced Intel SpeedStep®<br>Extended Memory 64 Technology |
| FSB                            | 400 / 533 / 800 МГц   | 400 / 533 / 800 МГц  |
| Набор микросхем                | Intel 865G<br>Intel ICH5  | Intel 865GV<br>Intel ICH5  |
| Графика                        | Intel Extreme Graphics 2<br>Максимальная совместно используемая видеопамять составляет 64 МБ  | Intel Extreme Graphics 2<br>Максимальная совместно используемая видеопамять составляет 64 МБ   |
| Основная память                | Слоты DDR DIMM x 2<br>Каждый модуль DIMM поддерживает 128/256/512 МБ & 1 ГБ DDR<br>Максимальная ёмкость памяти 2 ГБ<br>Модуль памяти с двухканальным режимом DDR<br>Поддержка DDR 266 / 333 / 400   | Слоты DDR DIMM x 2<br>Каждый модуль DIMM поддерживает 128/256/512 МБ & 1 ГБ DDR<br>Максимальная ёмкость памяти 2 ГБ<br>Модуль памяти с двухканальным режимом DDR<br>Поддержка DDR 266 / 333 / 400    |
| Super I/O                      | ITE 8712F<br>Аппаратный монитор<br>Регулятор скорости<br>Функция ITE "Smart Guardian"<br>(Интеллектуальная защита)  | ITE 8712F<br>Аппаратный монитор<br>Регулятор скорости<br>Функция ITE "Smart Guardian"<br>(Интеллектуальная защита)   |
| IDE                            | Встроенное устройство управления встроенными интерфейсами устройств<br>Режим "хвояина" шины Ultra DMA 33 / 66 / 100<br>Поддержка режима PIO 0~4,  | Встроенное устройство управления встроенными интерфейсами устройств<br>Режим "хвояина" шины Ultra DMA 33 / 66 / 100<br>Поддержка режима PIO 0~4,   |
| SATA                           | Встроенное последовательное устройство управления ATA<br>скорость передачи данных до 1.5 гигабит/с.<br>Соответствие спецификации SATA версия 1.0.   | Встроенное последовательное устройство управления ATA<br>скорость передачи данных до 1.5 гигабит/с.<br>Соответствие спецификации SATA версия 1.0.  |
| Локальная сеть                 | Realtek 8100C<br>Автоматическое согласование 10 / 100 Мб/с<br>Частичная / полная дуплексная способность   | Realtek 8100C<br>Автоматическое согласование 10 / 100 Мб/с<br>Частичная / полная дуплексная способность  |

## 865G Micro 775 &amp; 865GV Micro 775

|                                    | <i>865G Micro 775</i>   |    | <i>865GV Micro 775</i>  |    |
|------------------------------------|---|----|---|----|
| Звуковой кодек                     | ALC 655 / ALC 658<br>Шестиканальный звуковой выход<br>AC'97 Версия 2.3  |    | ALC 655 / ALC 658<br>Шестиканальный звуковой выход<br>AC'97 Версия 2.3  |    |
| Слоты                              | Графический слот AGP 8X   | x1 | Графический слот XGP  | x1 |
|                                    | Слот PCI  | x3 | Слот PCI  | x3 |
| Встроенный разъём                  | Разъём НГМД   | x1 | Разъём НГМД   | x1 |
|                                    | Разъём IDE  | x2 | Разъём IDE  | x2 |
|                                    | Разъём SATA   | x2 | Разъём SATA   | x2 |
|                                    | Разъём на лицевой панели  | x1 | Разъём на лицевой панели  | x1 |
|                                    | Входной звуковой разъём   | x1 | Входной звуковой разъём   | x1 |
|                                    | Разъём ввода для CD   | x1 | Разъём ввода для CD   | x1 |
|                                    | Разъём ввода для S/PDIF (дополнительно)   | x1 | Разъём ввода для S/PDIF (дополнительно)   | x1 |
|                                    | Разъём вывода для S/PDIF  | x1 | Разъём вывода для S/PDIF  | x1 |
|                                    | Контактирующее приспособление вентилятора центрального процессора   | x1 | Контактирующее приспособление вентилятора центрального процессора   | x1 |
|                                    | Контактирующее приспособление вентилятора системы   | x1 | Контактирующее приспособление вентилятора системы   | x1 |
|                                    | Открытое контактирующее приспособление CMOS   | x1 | Открытое контактирующее приспособление CMOS   | x1 |
|                                    | USB-разъём  | x2 | USB-разъём  | x2 |
|                                    | Разъём питания (20 вывод)   | x1 | Разъём питания (20 вывод)   | x1 |
|                                    | Разъём питания (4 вывод)  | x1 | Разъём питания (4 вывод)  | x1 |
| Задняя панель средств ввода-вывода | Клавиатура PS/2   | x1 | Клавиатура PS/2   | x1 |
|                                    | Мышь PS/2   | x1 | Мышь PS/2   | x1 |
|                                    | Последовательный порт   | x1 | Последовательный порт   | x1 |
|                                    | Порт подключения принтера   | x1 | Порт подключения принтера   | x1 |
|                                    | Порт VGA  | x1 | Порт VGA  | x1 |
|                                    | Порт LAN  | x1 | Порт LAN  | x1 |
|                                    | USB-порт  | x4 | USB-порт  | x4 |
| Размер панели                      | 215 мм (Ш) X 235 мм (В)   |    | 215 мм (Ш) X 235 мм (В)   |    |
|                                    | 215 мм (Ш) X 235 мм (В)   |    | 215 мм (Ш) X 235 мм (В)   |    |
| Поддержка OS                       | Windows 2000 / XP<br>Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления. |    | Windows 2000 / XP<br>Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления. |    |

## ARABIC

| 865GV Micro 775   | 865G Micro 775  |                        |
|---|---|------------------------|
| LGA 775<br>Intel Pentium 4 / Pentium D / Celeron D معالجك<br>بتردد يصل إلى 3.4 جيجا هرتز<br>Hyper-Threading تدعمه<br>Execute Disable Bit<br>Enhanced Intel SpeedStep®<br>Extended Memory 64 Technology                                | LGA 775<br>Intel Pentium 4 / Pentium D / Celeron D معالجك<br>بتردد يصل إلى 3.4 جيجا هرتز<br>Intel Core2Duo (في x8 فقط)<br>Hyper-Threading تدعمه<br>Execute Disable Bit<br>Enhanced Intel SpeedStep®<br>Extended Memory 64 Technology  | وحدة المعالجة المركزية |
| ميغا هرتز 400/ 533 / 800 تردد   | ميغا هرتز 400/ 533 / 800 تردد   | النقل الأممي الجاني    |
| Intel 865GV<br>Intel ICH5   | Intel 865G<br>Intel ICH5  | مجموعة لشرائح          |
| Intel Extreme Graphics 2<br>ميغا بايت 64 أقصى سعة لذاكرة لفيديو لمشوكة  | Intel Extreme Graphics 2<br>ميغا بايت 64 أقصى سعة لذاكرة لفيديو لمشوكة  | بطاقة الرسوميات        |
| فتحة DDR DIMM عدد 2<br>128/256/512 سعة DDR ذاكرة من نوع DIMM تدعم كل فتحة<br>ميغا بايت 1 و جيجا بايت<br>سعة ذاكرة قصوى 2 جيجا بايت<br>أحادية/ مزدوجة الذاكرة DDR وحدة ذاكرة<br>ميغا بايت 400 / 333 / 266 سعات DDR تدعم الذاكرة من نوع | فتحة DDR DIMM عدد 2<br>128/256/512 سعة DDR ذاكرة من نوع DIMM تدعم كل فتحة<br>ميغا بايت 1 و جيجا بايت<br>سعة ذاكرة قصوى 2 جيجا بايت<br>أحادية/ مزدوجة الذاكرة DDR وحدة ذاكرة<br>ميغا بايت 400 / 333 / 266 سعات DDR تدعم الذاكرة من نوع | الذاكرة الرئيسية       |
| ITE 8712F<br>مرقب لمعومة حلقة الأجهزة<br>مرقب في سرعة المروحة<br>من "Smart Guardian" وظيفة  | ITE 8712F<br>مرقب لمعومة حلقة الأجهزة<br>مرقب في سرعة المروحة<br>من "Smart Guardian" وظيفة  | Super I/O              |
| متكامل IDE متحكم<br>Ultra DMA 33 / 66 / 100 نقل بتيقة<br>وضع رئيسي<br>PIO Mode 0~4 دعم وضع  | متكامل IDE متحكم<br>Ultra DMA 33 / 66 / 100 نقل بتيقة<br>وضع رئيسي<br>PIO Mode 0~4 دعم وضع  | منفذ IDE               |
| متكامل Serial ATA متحكم<br>نقل البيانات بسرعات تصل إلى 1.5 جيجا بايت/ثانية.<br>1.0 الإصدار SATA مطابقة المواصفات  | متكامل Serial ATA متحكم<br>نقل البيانات بسرعات تصل إلى 1.5 جيجا بايت/ثانية.<br>1.0 الإصدار SATA مطابقة المواصفات  | SATA                   |
| Realtek 8100C<br>تقويض قفلي 100/10 ميغا بايت / ثلثية<br>إمكانية النقل لمزيج الكامل/القصفي   | Realtek 8100C<br>تقويض قفلي 100/10 ميغا بايت / ثلثية<br>إمكانية النقل لمزيج الكامل/القصفي   | شبكة داخلية<br>100/10  |
| ALC655 / ALC 658<br>قنوك لخرج الصوت 1.5<br>AC'97 من 2, 3 الإصدار  | ALC655 / ALC 658<br>قنوك لخرج الصوت 1.5<br>AC'97 من 2, 3 الإصدار  | كوديك الصوت            |



865G Micro 775 & 865GV Micro 775

| 865GV Micro 775   |                                   | 865G Micro 775  |                                   |                              |
|---|-----------------------------------|---|-----------------------------------|------------------------------|
| عدد 1   | فتحة XGP فئة لطاقة الرسومات       | عدد 1   | فتحة AGP فئة 8X لطاقة الرسومات    | الفتحات                      |
| عدد 3   | فتحة PCI                          | عدد 3   | فتحة PCI                          |                              |
| عدد 1   | مقذ محرك أقراص مرنة               | عدد 1   | مقذ محرك أقراص مرنة               | المنافذ على سطح اللوحة       |
| عدد 2   | مقذ IDE                           | عدد 2   | مقذ IDE                           |                              |
| عدد 2   | مقذ SATA                          | عدد 2   | مقذ SATA                          |                              |
| عدد 1   | مقذ اللوحة الأممية                | عدد 1   | مقذ اللوحة الأممية                |                              |
| عدد 1   | مقذ الصوت الأممي                  | عدد 1   | مقذ الصوت الأممي                  |                              |
| عدد 1   | مقذ CD-IN                         | عدد 1   | مقذ CD-IN                         |                              |
| عدد 1   | مقذ دخل S/PDIF (اختياري)          | عدد 1   | مقذ دخل S/PDIF (اختياري)          |                              |
| عدد 1   | مقذ خرج S/PDIF                    | عدد 1   | مقذ خرج S/PDIF                    |                              |
| عدد 1   | وصلة مروحة وحدة المعالجة المركزية | عدد 1   | وصلة مروحة وحدة المعالجة المركزية |                              |
| عدد 1   | وصلة مروحة للظلم                  | عدد 1   | وصلة مروحة للظلم                  |                              |
| عدد 1   | وصلة مسح CMOS                     | عدد 1   | وصلة مسح CMOS                     |                              |
| عدد 2   | مقذ USB                           | عدد 2   | مقذ USB                           |                              |
| عدد 1   | مقذ توصيل الطاقة (20دوس)          | عدد 1   | مقذ توصيل الطاقة (20دوس)          |                              |
| عدد 1   | مقذ توصيل الطاقة (4ببليس)         | عدد 1   | مقذ توصيل الطاقة (4ببليس)         |                              |
| عدد 1   | لوحة مفاتيح PS/2                  | عدد 1   | لوحة مفاتيح PS/2                  | منافذ دخل/خرج اللوحة الخلفية |
| عدد 1   | مؤس PS/2                          | عدد 1   | مؤس PS/2                          |                              |
| عدد 1   | مقذ تسلسلي                        | عدد 1   | مقذ تسلسلي                        |                              |
| عدد 1   | مقذ طابعة                         | عدد 1   | مقذ طابعة                         |                              |
| عدد 1   | مقذ VGA                           | عدد 1   | مقذ VGA                           |                              |
| عدد 1   | مقذ شبكة لتصل محلية               | عدد 1   | مقذ شبكة لتصل محلية               |                              |
| عدد 4   | منافذ USB                         | عدد 4   | منافذ USB                         |                              |
| عدد 3   | مقيس صوت                          | عدد 3   | مقيس صوت                          |                              |
| 215مم (عرض) X 235مم (ارتفاع)  |                                   | 215مم (عرض) X 235مم (ارتفاع)  |                                   | حجم اللوحة                   |
| Windows 2000 / XP<br>بخطا في اإسفة أو إزلة اإع لآي نظام تشغيل باخطل أو Biostar تحتفظ بيون اخطل. |                                   | Windows 2000 / XP<br>بخطا في اإسفة أو إزلة اإع لآي نظام تشغيل باخطل أو Biostar تحتفظ بيون اخطل. |                                   | دع اظمة لتشغيل               |

## JAPANESE

|            | 865G Micro 775  | 865GV Micro 775  |
|------------|---|--|
| CPU        | LGA 775<br>Intel Pentium 4 / Pentium D / Celeron D processor up to 3.4 GHz<br>Intel Core2Duo Processor (Ver 8.x のみ)<br>Hyper-Threading<br>Execute Disable Bit<br>Enhanced Intel SpeedStep®<br>Extended Memory 64 Technology | LGA 775<br>Intel Pentium 4 / Pentium D / Celeron D processor up to 3.4 GHz<br>Hyper-Threading<br>Execute Disable Bit<br>Enhanced Intel SpeedStep®<br>Extended Memory 64 Technology |
| FSB        | 400/ 533 / 800 MHz  | 400/ 533 / 800 MHz   |
| チップセット     | Intel 865G<br>Intel ICH5  | Intel 865GV<br>Intel ICH5  |
| グラフィックス    | Intel Extreme Graphics 2<br>最大の共有ビデオメモリは64MBです  | Intel Extreme Graphics 2<br>最大の共有ビデオメモリは64MBです   |
| メインメモリ     | DDR DIMMスロット x 2<br>各DIMMは128/256/512MB & 1GB DDRをサポート<br>最大メモリ容量2GB<br>デュアル チャンネルモードDDRメモリモジュール<br>DDR 266 / 333 / 400 をサポート   | DDR DIMMスロット x 2<br>各DIMMは128/256/512MB & 1GB DDRをサポート<br>最大メモリ容量2GB<br>デュアル チャンネルモードDDRメモリモジュール<br>DDR 266 / 333 / 400 をサポート  |
| Super I/O  | ITE 8712F<br>H/Wモニター<br>ファン速度コントローラ / モニター<br>ITEの「スマートガーディアン」機能  | ITE 8712F<br>H/Wモニター<br>ファン速度コントローラ / モニター<br>ITEの「スマートガーディアン」機能   |
| IDE        | 統合IDEコントローラ<br>Ultra DMA 33 / 66 / 100バスマスタモード<br>PIO Mode 0~4のサポート   | 統合IDEコントローラ<br>Ultra DMA 33 / 66 / 100バスマスタモード<br>PIO Mode 0~4のサポート  |
| SATA       | 統合シリアルATAコントローラ<br>最高1.5 Gb/秒のデータ転送速度<br>SATAバージョン1.0仕様に準拠。   | 統合シリアルATAコントローラ<br>最高1.5 Gb/秒のデータ転送速度<br>SATAバージョン1.0仕様に準拠。  |
| 10/100 LAN | Realtek 8100C<br>10 / 100 Mb/sオートネゴシエーション<br>半/全二重機能  | Realtek 8100C<br>10 / 100 Mb/sオートネゴシエーション<br>半/全二重機能   |
| サウンド Codec | ALC 655 / ALC 658<br>5.1チャンネルオーディオアウト<br>AC'97バージョン2.3  | ALC 655 / ALC 658<br>5.1チャンネルオーディオアウト<br>AC'97バージョン2.3   |

865G Micro 775 & 865GV Micro 775

|              |  | 865G Micro 775 |  | 865GV Micro 775 |  |
|--------------|--|----------------|--|-----------------|--|
| スロット         | AGP 8X グラフィックススロット   | x1             | XGP グラフィックススロット  | x1              |  |
|              | PCIスロット  | x3             | PCIスロット  | x3              |  |
| オンボードコネクタ    | フロッピーコネクタ  | x1             | フロッピーコネクタ  | x1              |  |
|              | IDEコネクタ  | x2             | IDEコネクタ  | x2              |  |
|              | SATAコネクタ   | x2             | SATAコネクタ   | x2              |  |
|              | フロントパネルコネクタ  | x1             | フロントパネルコネクタ  | x1              |  |
|              | フロントオーディオコネクタ  | x1             | フロントオーディオコネクタ  | x1              |  |
|              | CDインコネクタ   | x1             | CDインコネクタ   | x1              |  |
|              | S/PDIFインコネクタ (オプション)   | x1             | S/PDIFインコネクタ (オプション)   | x1              |  |
|              | S/PDIFアウトコネクタ  | x1             | S/PDIFアウトコネクタ  | x1              |  |
|              | CPUファンヘッダ  | x1             | CPUファンヘッダ  | x1              |  |
|              | システムファンヘッダ   | x1             | システムファンヘッダ   | x1              |  |
|              | CMOS クリアヘッダ  | x1             | CMOS クリアヘッダ  | x1              |  |
|              | USBコネクタ  | x2             | USBコネクタ  | x2              |  |
|              | 電源コネクタ (20ピン)  | x1             | 電源コネクタ (20ピン)  | x1              |  |
| 電源コネクタ (4ピン) | x1   | 電源コネクタ (4ピン)   | x1   |                 |  |
| 背面パネル I/O    | PS/2キーボード  | x1             | PS/2キーボード  | x1              |  |
|              | PS/2マウス  | x1             | PS/2マウス  | x1              |  |
|              | シリアルポート  | x1             | シリアルポート  | x1              |  |
|              | プリンタポート  | x1             | プリンタポート  | x1              |  |
|              | VGAポート   | x1             | VGAポート   | x1              |  |
|              | LANポート   | x1             | LANポート   | x1              |  |
|              | USBポート   | x4             | USBポート   | x4              |  |
| オーディオジャック    | x3   | オーディオジャック      | x3   |                 |  |
| ボードサイズ       | 215 mm (幅) X 235 mm (高さ)   |                | 215 mm (幅) X 235 mm (高さ)   |                 |  |
| OSサポート       | Windows 2000 / XP<br>Bicstarは事前のサポートなしにOSサポートを追加または削除する権利を留保します。 |                | Windows 2000 / XP<br>Bicstarは事前のサポートなしにOSサポートを追加または削除する権利を留保します。 |                 |  |

2006/10/27

# ***865GV Micro 775 BIOS Setup***

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|                                   |          |
|-----------------------------------|----------|
| <b>BIOS Setup.....</b>            | <b>1</b> |
| 1 Main Menu .....                 | 3        |
| 2 Standard CMOS Features.....     | 6        |
| 3 Advanced BIOS Features .....    | 9        |
| 4 Advanced Chipset Features.....  | 15       |
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| 6 Power Management Setup.....     | 24       |
| 7 PnP/PCI Configurations .....    | 28       |
| 8 PC Health Status .....          | 30       |
| 9 Frequency /Voltage Control..... | 32       |

# 865GV Micro 775

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## BIOS Setup

### Introduction

This manual discussed Award™ Setup program built into the ROM BIOS. The Setup program allows users to modify the basic system configuration. This special information is then stored in battery-backed RAM so that it retains the Setup information when the power is turned off.

The Award BIOS™ installed in your computer system's ROM (Read Only Memory) is a custom version of an industry standard BIOS. This means that it supports Intel Pentium® 4 processor input/output system. The BIOS provides critical low-level support for standard devices such as disk drives and serial and parallel ports.

Adding important has customized the Award BIOS™, but nonstandard, features such as virus and password protection as well as special support for detailed fine-tuning of the chipset controlling the entire system.

The rest of this manual is intended to guide you through the process of configuring your system using Setup.

### Plug and Play Support

These AWARD BIOS supports the Plug and Play Version 1.0A specification. ESCD (Extended System Configuration Data) write is supported.

### EPA Green PC Support

This AWARD BIOS supports Version 1.03 of the EPA Green PC specification.

### APM Support

These AWARD BIOS supports Version 1.1&1.2 of the Advanced Power Management (APM) specification. Power management features are implemented via the System Management Interrupt (SMI). Sleep and Suspend power management modes are supported. This AWARD BIOS can manage power to the hard disk drives and video monitors.

### ACPI Support

Award ACPI BIOS support Version 1.0 of Advanced Configuration and Power interface specification (ACPI). It provides ASL code for power management and device configuration capabilities as defined in the ACPI specification, developed by Microsoft, Intel and Toshiba.

# 865GV Micro 775

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## PCI Bus Support

This AWARD BIOS also supports Version 2.1 of the Intel PCI (Peripheral Component Interconnect) local bus specification.

## DRAM Support

DDR DRAM (Double Data Rate Synchronous DRAM) are supported.

## Supported CPUs

This AWARD BIOS supports the Intel Pentium® 4 CPU.

## Using Setup

In general, you use the arrow keys to highlight items, press <Enter> to select, use the <PgUp> and <PgDn> keys to change entries, press <F1> for help and press <Esc> to quit. The following table provides more detail about how to navigate in the Setup program by using the keyboard.

| Keystroke   | Function  |
|-------------|---|
| Up arrow    | Move to previous item   |
| Down arrow  | Move to next item   |
| Left arrow  | Move to the item on the left (menu bar)   |
| Right arrow | Move to the item on the right (menu bar)  |
| Move Enter  | Move to the item you desired  |
| PgUp key    | Increase the numeric value or make changes  |
| PgDn key    | Decrease the numeric value or make changes  |
| + Key       | Increase the numeric value or make changes  |
| - Key       | Decrease the numeric value or make changes  |
| Esc key     | Main Menu – Quit and not save changes into CMOS<br>Status Page Setup Menu and Option Page Setup Menu – Exit<br>Current page and return to Main Menu |
| F1 key      | General help on Setup navigation keys   |
| F5 key      | Load previous values from CMOS  |
| F7 key      | Load the optimized defaults   |
| F10 key     | Save all the CMOS changes and exit  |

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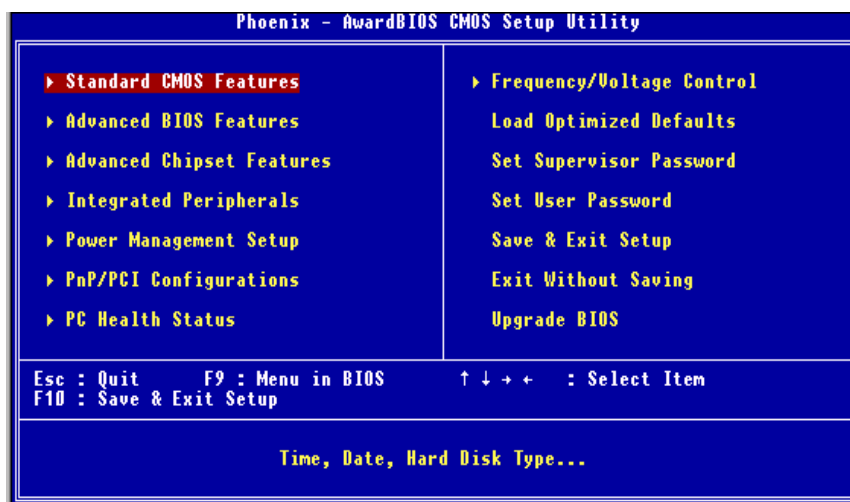
## 1 Main Menu

Once you enter Award BIOS™ CMOS Setup Utility, the Main Menu will appear on the screen. The Main Menu allows you to select from several setup functions. Use the arrow keys to select among the items and press <Enter> to accept and enter the sub-menu.

**WARNING**

The information about BIOS defaults on this manual (Figure 1,2,3,4,5,6,7,8,9) is just only for reference, please refer to the BIOS installed on board, for update information.

■ **Figure 1. Main Menu**



### Standard CMOS Features

This submenu contains industry standard configurable options.

### Advanced BIOS Features

This submenu allows you to configure enhanced features of the BIOS.

### Advanced Chipset Features

This submenu allows you to configure special chipset features.

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## Integrated Peripherals

This submenu allows you to configure certain IDE hard drive options and Programmed Input/ Output features.

## Power Management Setup

This submenu allows you to configure the power management features.

## PnP/PCI Configurations

This submenu allows you to configure certain "Plug and Play" and PCI options.

## PC Health Status

This submenu allows you to monitor the hardware of your system.

## Frequency Control

This submenu allows you to change CPU Vcore Voltage and CPU/PCI clock. **(However, this function is strongly recommended not to use. Not properly change the voltage and clock may cause CPU or M/B damage!)**

## Load Optimized Defaults

This selection allows you to reload the BIOS when the system is having problems particularly with the boot sequence. These configurations are factory settings optimized for this system. A confirmation message will be displayed before defaults are set.



Load Optimized Defaults (Y/N)? N

## Set Supervisor Password

Setting the supervisor password will prohibit everyone except the supervisor from making changes using the CMOS Setup Utility. You will be prompted with to enter a password.



Enter Password:



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## Set User Password

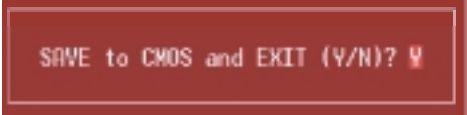
If the Supervisor Password is not set, then the User Password will function in the same way as the Supervisor Password. If the Supervisor Password is set and the User Password is set, the "User" will only be able to view configurations but will not be able to change them.



Enter Password:

## Save & Exit Setup

Save all configuration changes to CMOS(memory) and exit setup. Confirmation message will be displayed before proceeding.



SAVE to CMOS and EXIT (Y/N)? Y

## Exit Without Saving

Abandon all changes made during the current session and exit setup. Confirmation message will be displayed before proceeding.



Quit Without Saving (Y/N)? N

## Upgrade BIOS

This submenu allows you to upgrade bios.



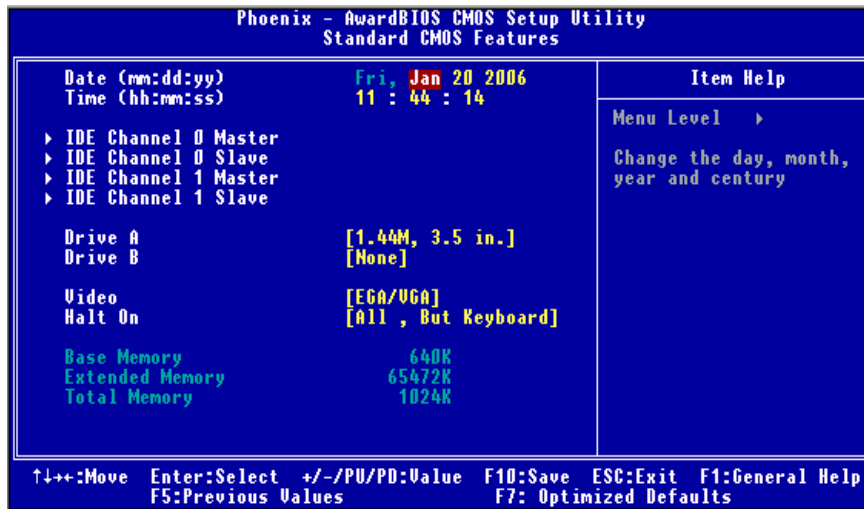
BIOS UPDATE UTILITY (Y/N)? N

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## 2 Standard CMOS Features

The items in Standard CMOS Setup Menu are divided into 10 categories. Each category includes no, one or more than one setup items. Use the arrow keys to highlight the item and then use the <PgUp> or <PgDn> keys to select the value you want in each item.

■ Figure 2. Standard CMOS Setup



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## Main Menu Selections

This table shows the selections that you can make on the Main Menu.

| Item                 | Options  | Description   |
|----------------------|--|---|
| Date                 | mm : dd : yy   | Set the system date. Note that the 'Day' automatically changes when you set the date. |
| Time                 | hh : mm : ss   | Set the system internal clock.  |
| IDE Primary Master   | Options are in its sub menu.   | Press <Enter> to enter the sub menu of detailed options                               |
| IDE Primary Slave    | Options are in its sub menu.   | Press <Enter> to enter the sub menu of detailed options.                              |
| IDE Secondary Master | Options are in its sub menu.   | Press <Enter> to enter the sub menu of detailed options.                              |
| IDE Secondary Slave  | Options are in its sub menu.   | Press <Enter> to enter the sub menu of detailed options.                              |
| Drive A<br>Drive B   | 360K, 5.25 in<br>1.2M, 5.25 in<br>720K, 3.5 in<br>1.44M, 3.5 in<br>2.88M, 3.5 in<br>None | Select the type of floppy disk drive installed in your system.                        |
| Video                | EGA/VGA<br>CGA 40<br>CGA 80<br>MONO  | Select the default video device.  |

## **865GV Micro 775**

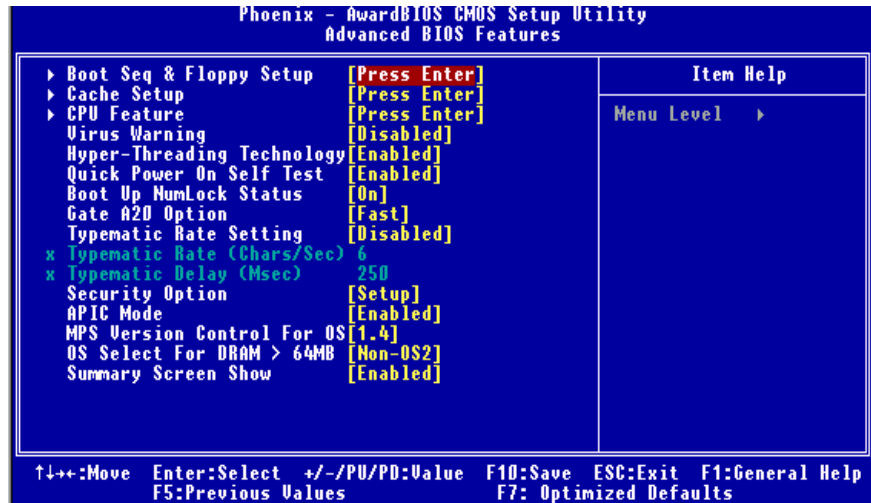
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| <b>Item</b>     | <b>Options</b>  | <b>Description</b>   |
|-----------------|---|--|
| Halt On         | All Errors<br>No Errors<br>All, but Keyboard<br>All, but Diskette<br>All, but Disk/ Key | Select the situation in which you want the BIOS to stop the POST process and notify you. |
| Base Memory     | N/A   | Displays the amount of conventional memory detected during boot up.                      |
| Extended Memory | N/A   | Displays the amount of extended memory detected during boot up.                          |
| Total Memory    | N/A   | Displays the total memory available in the system.                                       |

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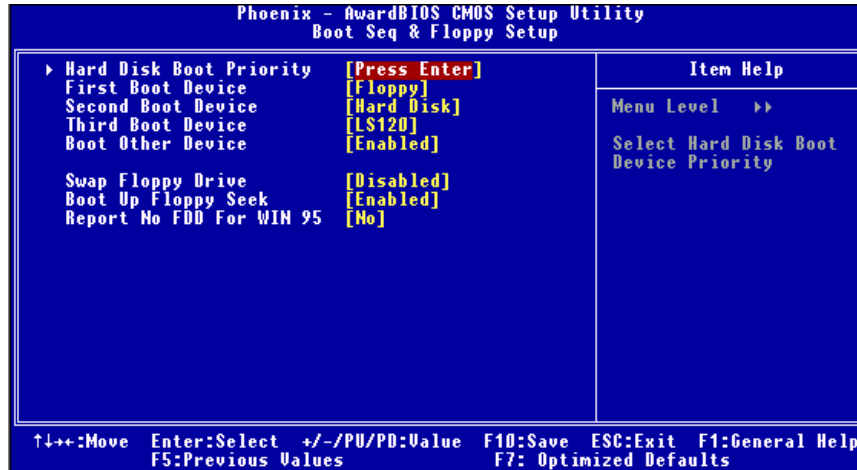
## 3 Advanced BIOS Features

■ Figure 3. Advanced BIOS Setup



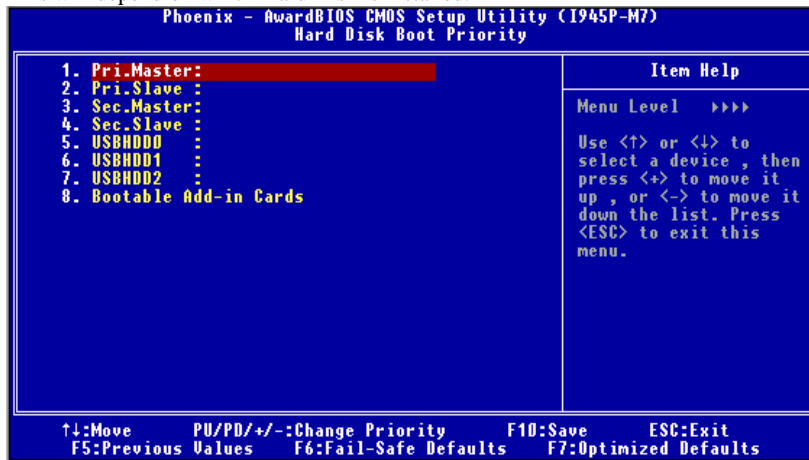
# 865GV Micro 775

## Boot Seq & Floppy Setup



### Hard Disk Boot Priority

These BIOS attempt to arrange the Hard Disk boot sequence automatically. This will depend on which Hard Disk is installed.



**The Choices:** Pri. Master, Pri. Slave, Sec. Master, Sec, Slave, USB HDD0, USB HDD1, USB HDD2, and Bootable Add-in Cards.

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## First/ Second/ Third/ Boot Other Device

These BIOS attempt to load the operating system from the device in the sequence selected in these items.

**The Choices:** Floppy, LS120, HDD-0, SCSI, CDROM, HDD-1, HDD-2, HDD-3, ZIP100, LAN, HPT370, Disabled, Enabled.

## Swap Floppy Drive

For systems with two floppy drives, this option allows you to swap logical drive assignments.

**The Choices:** Disabled (default), Enabled.

## Boot Up Floppy Seek

Enabling this option will test the floppy drives to determine if they have 40 or 80 tracks. Disabling this option reduces the time it takes to boot-up.

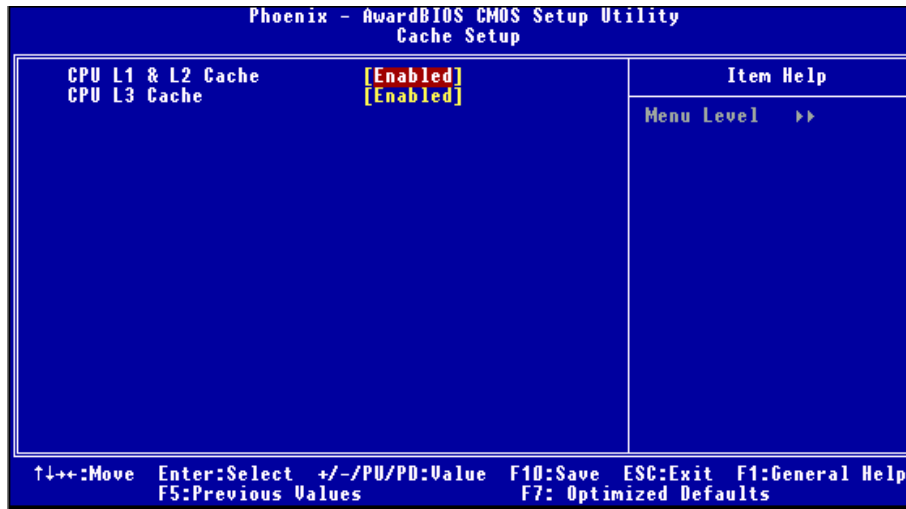
**The Choices:** Disabled, Enabled (default).

## Report NO FDD for Win95

This item allows you to select YES/NO to Report NO FDD for Win95.

**The Choices:** NO (default), Yes.

## Cache Setup



## CPU L1&L2 Cache

Depending on the CPU/chipset in use, you may be able to increase memory access time with this option.

**Enabled** (default)    Enable cache.  
Disabled    Disable cache.

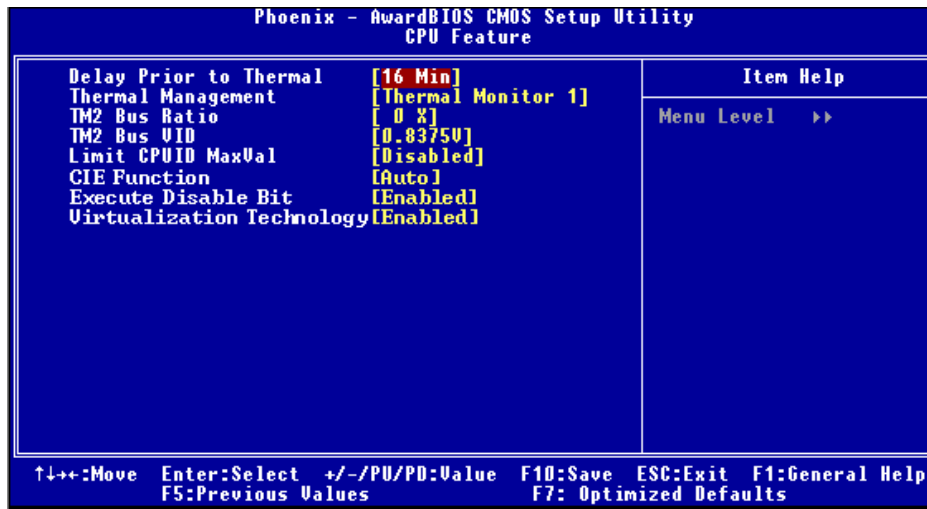
# 865GV Micro 775

## CPU L3 Cache

Depending on the CPU/chipset in use, you may be able to increase memory access time with this option.

**Enabled** (default) Enable cache.  
Disabled Disable cache.

## CPU Feature



### Delay Prior to Thermal

Set this item to enable the CPU Thermal function to engage after the specified time.

**The Choices:** 4 Min, 8 Min, **16Min** (default), 32 Min.

### Thermal Management

Allows you to choose the thermal management of your monitor.

**The Choices:** **Thermal Monitor 1** (default), Thermal Monitor2.

### TM2 Bus Ratio

Represents the frequency. Bus ratio of the throttled performance state that will be initiated when the on-die sensor goes from not hot to hot.

**The Choices:** **0X** (default).

Min= 0,Max= 255 ,Key in a DEC number.

### TM2 Bus VID

Represents the voltage of the throttled performance state that will be initiated when the on-die sensor goes from not hot to hot.(Min=0.8375,Max=1.6000.)

**The Choices:** **0.8375** (default).



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## **Limit CPU ID Max Val**

Set limit CPU ID maximum value to 3, it should be disabled for WinXP.

**The Choices:** Disabled (default), Enabled.

## **C1E Function**

This item allows you to configure the Enhanced Halt State (C1E) function, which may reduce the power consumption of your system when the system is idle.

**The Choices:** Auto (default), Disabled.

## **Execute Disable Bit**

This item allows you to configure the Execute Disabled Bit function, which protects your system from buffer overflow attacks.

**The Choices:** Enabled (default), Disabled.

## **Virtualization Technology**

Virtualization Technology can virtually separate your system resource into several parts, thus enhance the performance when running virtual machines or multi interface systems.

**The Choices:** Enabled (default), Disabled.

## **Virus Warning**

This option allows you to choose the Virus Warning feature that is used to protect the IDE Hard Disk boot sector. If this function is enabled and an attempt is made to write to the boot sector, BIOS will display a warning message on the screen and sound an alarm beep.

Enabled Virus protection is activated.

**Disabled** (default) Virus protection is disabled.

## **Hyper-Threading Technology**

This option allows you to enable or disable CPU Hyper-Threading. Enabled for Windows XP and Linux 2.4.x (OS optimized for Hyper Threading Technology). Disabled for other OS (OS not optimized for Hyper Threading Technology).

**The Choices:** Enabled (default), Disabled.

## **Quick Power On Self Test**

Enabling this option will cause an abridged version of the Power On Self-Test (POST) to execute after you power up the computer.

Disabled Normal POST.

**Enabled** (default) Enable quick POST.

## **Boot Up NumLock Status**

Selects the NumLock. State after power on.

**On** (default) Numpad is number keys.

Off Numpad is arrow keys.

## **Gate A20 Option**

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Select if chipset or keyboard controller should control Gate A20.  
Normal            A pin in the keyboard controller controls Gate A20.  
**Fast** (default)    Lets chipset control Gate A20.

## Typematic Rate Setting

When a key is held down, the keystroke will repeat at a rate determined by the keyboard controller. When enabled, the typematic rate and typematic delay can be configured.

**The Choices:** Disabled (default), Enabled.

## Typematic Rate (Chars/Sec)

Sets the rate at which a keystroke is repeated when you hold the key down.

**The Choices:** 6 (default), 8,10,12,15,20,24,30.

## Typematic Delay (Msec)

Sets the delay time after the key is held down before it begins to repeat the keystroke.

**The Choices:** 250 (default), 500, 750, 1000.

## Security Option

This option will enable only individuals with passwords to bring the system online and/or to use the CMOS Setup Utility.

System            A password is required for the system to boot and is also required to access the Setup Utility.

**Setup** (default)    A password is required to access the Setup Utility only.

This will only apply if passwords are set from the Setup main menu.

## APIC Mode

Selecting Enabled enables APIC device mode reporting from the BIOS to the operating system.

**The Choices:** Enabled (default), Disabled.

## MPS Version Control For OS

The BIOS supports version 1.1 and 1.4 of the Intel multiprocessor specification.

Select version supported by the operation system running on this computer.

**The Choices:** 1.4 (default), 1.1.

## OS Select For DRAM > 64MB

A choice other than Non-OS2 is only used for OS2 systems with memory exceeding 64MB.

**The Choices:** Non-OS2 (default), OS2.

## Summary Screen Show

This item allows you to enable/disable the summary screen. Summary screen means system configuration and PCI device listing.

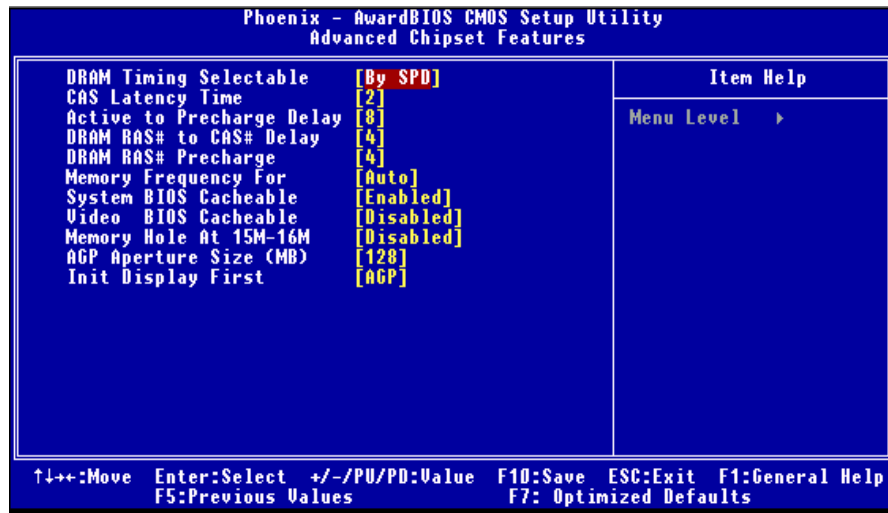
**The choices:** Enabled (default), Disabled

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## 4 Advanced Chipset Features

This submenu allows you to configure the specific features of the chipset installed on your system. This chipset manage bus speeds and access to system memory resources, such as DRAM. It also coordinates communications with the PCI bus. The default settings that came with your system have been optimized and therefore should not be changed unless you are suspicious that the settings have been changed incorrectly.

■ **Figure 4. Advanced Chipset Setup**



### DRAM Timing Selectable

When synchronous DRAM is installed, the number of clock cycles of CAS latency depends on the DRAM timing.

**The Choices:** By SPD (default), Manual.

### CAS Latency Time

When synchronous DRAM is installed, the number of clock cycles of CAS latency depends on the DRAM timing.

**The Choices:** 2 (default), 2.5, 3.

### Active to Precharge Delay

This item controls the number of DRAM clocks to activate the precharge delay.

**The Choices:** 8 (default), 7, 6, 5.

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## **DRAM RAS# to CAS# Delay**

This field let you insert a timing delay between the CAS and RAS strobe signals, used when DRAM is written to, read from, or refreshed. Fast gives faster performance; and slow gives more stable performance. This field applies only when synchronous DRAM is installed in the system.

**The Choices:** 4 (default), 3, 2.

## **DRAM RAS# Precharge**

If an insufficient number of cycle is allowed for RAS to accumulate its charge before DRAM refresh, the refresh may be incomplete, and the DRAM may fail to retain data. Fast gives faster performance; and Slow gives more stable performance. This field applies only when synchronous DRAM is installed in the system.

**The Choices:** 4 (default), 3, 2.

## **Memory Frequency For**

This item allows you to select the Memory Frequency.

**The Choices:** Auto (default), DDR266, DDR300, DDR320, DDR400.

## **System BIOS Cacheable**

Selecting Enabled allows you caching of the system BIOS ROM at F0000h~FFFFFh, resulting a better system performance. However, if any program writes to this memory area, a system error may result.

**The Choices:** Enabled (default), Disabled.

## **Video BIOS Cacheable**

Select Enabled allows caching of the video BIOS, resulting a better system performance. However, if any program writes to this memory area, a system error may result.

**The Choices:** Disabled (default), Enabled

## **Memory Hole At 15M-16M**

You can reserve this area of system memory for ISA adapter ROM. When this area is reserved it cannot be cached. The user information of peripherals that need to use this area of system memory usually2 discussed their memory requirements.

**The Choices:** Disabled (default), Enabled.

## **AGP Aperture Size (MB)**

Select the size of the Accelerated Graphics Port (AGP) aperture. The aperture is a portion of the PCI memory address range dedicated for graphics memory address space. Host cycles that hit the aperture range are forwarded to the AGP without any translation.

**The Choices:** 64, 4, 8, 16, 32, 128 (default), 256.

## **865GV Micro 775**

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### **Init Display First**

This item allows you to decide to active whether PCI Slot or on-chip VGA first.

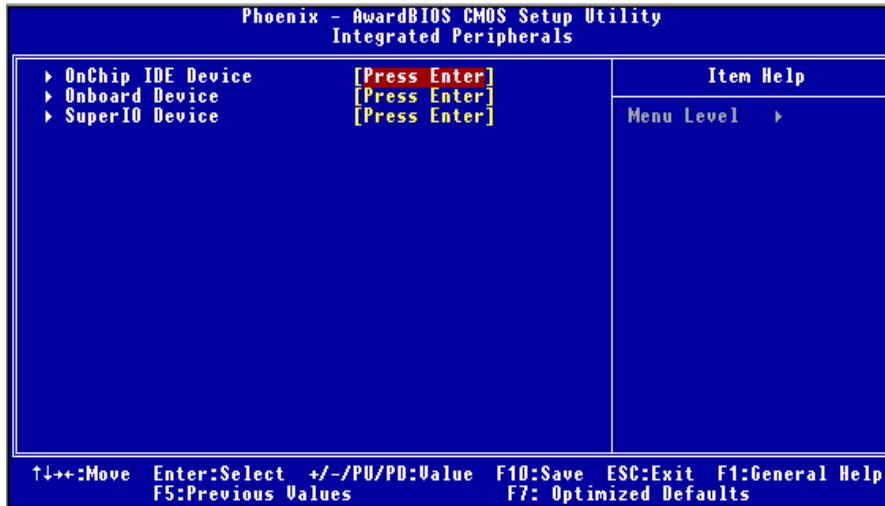
**The Choices:** AGP (default), PCI Slot.

# 865GV Micro 775

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## 5 Integrated Peripherals

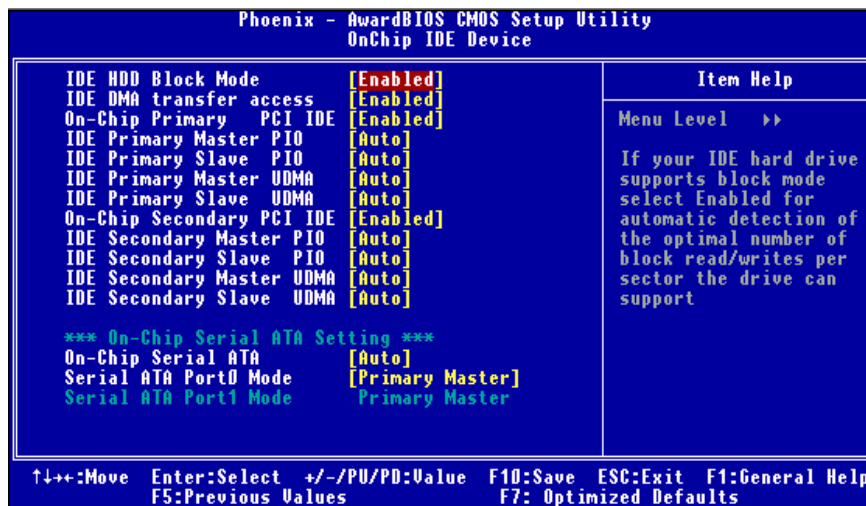
■ Figure 5. Integrated Peripherals



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## Onboard IDE Device

Press Enter to configure the onboard IDE Controllers.



### IDE HDD Block Mode

Block mode is also called block transfer, multiple commands, or multiple sector read / write. If your IDE hard drive supports block mode (most new drives do), select Enabled for automatic detection of the optimal number of block mode (most new drives do), select Enabled for automatic detection of the optimal number of block read / write per sector where the drive can support.

**The Choices:** Enabled (default), Disabled.

### IDE DMA Transfer Access

This item allows you to enable or disable the IDE transfer access.

**The Choices:** Enabled (default), Disabled.

### On-Chip Primary/ Secondary PCI IDE

This item allows you to enable or disable the primary/ secondary IDE Channel.

**The Choices:** Enabled (default), Disabled.

### Primary / Secondary /Master / Slave PIO

The IDE PIO (Programmed Input / Output) fields let you set a PIO mode (0-4) for each of the IDE devices that the onboard IDE interface supports. Modes 0 to 4 will increased performance progressively. In Auto mode, the system automatically determines the best mode for each device.

**The Choices:** Auto (default), Mode0, Mode1, Mode2, Mode3, Mode4.

## **865GV Micro 775**

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### **Primary / Secondary /Master / Slave UDMA**

Ultra DMA/100 functionality can be implemented if it is supported by the IDE hard drives in your system. As well, your operating environment requires a DMA driver (Windows 95 OSR2 or a third party IDE bus master driver). If your hard drive and your system software both support Ultra DMA/100, select Auto to enable BIOS support.

**The Choices:** **Auto** (default), Disabled.

### **On-Chip Serial SATA**

This item allows you to choose:

Disabled: disabled SATA Controller.

Auto: auto arrange by BIOS.

Combined Mode: PATA and SATA are combined max of 2 IDE drivers in each channel.

Enhanced Mode: enabled both SATA and PATA max of 6 IDE drivers are supported.

SATA Only: SATA is operating in legacy mode.

**The Choices:** **Auto** (default), Combined Mode, Enhanced Mode, SATA only.

### **Serial ATA Port 0/Port1 Mode**

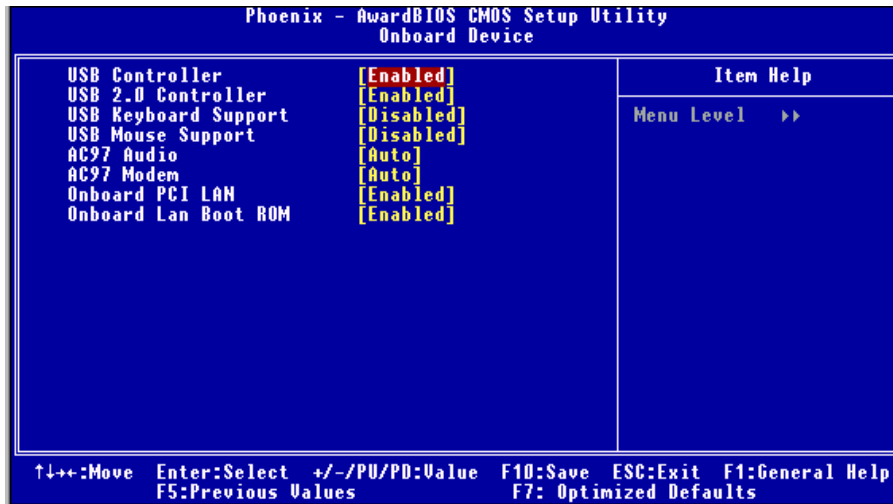
**The Choices:** **Primary Master** (default).



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## Onboard Device

Press Enter to configure the onboard Device.



### **USB Controller**

Select Enabled if your system contains a Universal Serial Bus (USB) controller and you have USB peripherals.

**The Choices:** Enabled (default), Disabled

### **USB 2.0 Controller**

This entry is to enabled/ disabled EHCI controller only. This BIOS itself may/ may not have high speed USB support. If the BIOS has high speed USB support built in, the support will automatically turn on, when high speed device were attached.

**The Choices:** Enabled (default).

### **USB Keyboard Support**

This item allows you to enable or disable the USB Keyboard Legacy Support.

Enabled Enable USB Keyboard Support.

Disabled (default) Disable USB Keyboard Support.

### **USB Mouse Support**

This item allows you to enable or disable the USB Mouse Legacy Support.

Enabled Enable USB Mouse Support.

Disabled (default) Disable USB Mouse Support.

# 865GV Micro 775

## AC97 Audio

This item allows you to decide to enable/ disable to AC97 Audio support.

**The Choices:** **Auto** (default), Disabled.

## AC97 Modem

This item allows you to decide to enable/ disable to AC97 Modem support.

**The Choices:** **Auto** (default), Disabled.

## Onboard PCI LAN

This item allows you to enable or disable the Onboard PCI LAN.

**The Choices:** **Enabled** (default), Disabled.

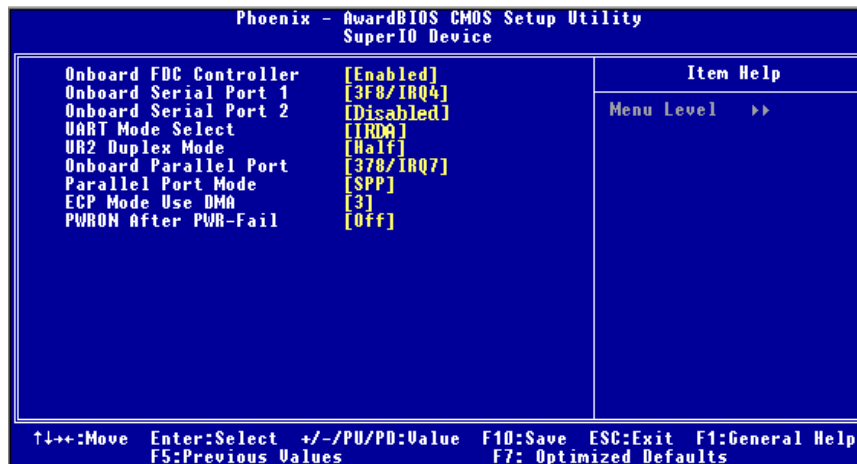
## Onboard LAN Boot ROM

Decide whether to invoke the boot ROM of the onboard LAN chip.

**The Choices:** **Enabled** (default), Disabled.

## Super IO Device

Press Enter to configure the Super I/O Device.



## Onboard FDC Controller

Select Enabled if your system has a floppy disk controller (FDC) installed on the system board and you wish to use it. If install and FDC or the system has no floppy drive, select Disabled in this field.

**The Choices:** **Enabled** (default), Disabled.

## Onboard Serial Port 1

Select an address and corresponding interrupt for the first and second serial ports.

**The Choices:** **3F8/IRQ4** (default), Disabled, Auto, 2F8/IRQ3, 3E8/IRQ4, 2E8/IRQ3.

# 865GV Micro 775

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## Onboard Serial Port 2

Select an address and corresponding interrupt for the first and second serial ports  
**The Choices:** 2F8/IRQ3 (default), Disabled, Auto, 3F8/IRQ4, 3E8/IRQ4, 2E8/IRQ3.

## UART Mode Select

This item allows you to determine which Infrared (IR) function of onboard I/O chip.

**The Choices:** Normal (default), ASKIR, IrDA, SCR .

## UR2 Duplex Mode

Select the value required by the IR device connected to the IR port. Full-duplex mode permits simultaneous two-direction transmission. Half-duplex mode permits transmission in one direction only at a time.

**The Choices:** Half (default), Full.

## Onboard Parallel Port

This item allows you to determine access onboard parallel port controller with which I/O Address.

**The Choices:** 378/IRQ7 (default), 278/IRQ5, 3BC/IRQ7, Disabled.

## Parallel Port Mode

The default value is SPP.

|               |  |
|---------------|--|
| SPP (default) | Using Parallel port as Standard Printer Port.      |
| EPP           | Using Parallel port as Enhanced Parallel Port.     |
| ECP           | Using Parallel port as Extended Capabilities Port. |
| ECP+EPP       | Using Parallel port as ECP & EPP mode.             |

## ECP Mode Use DMA

Select a DMA Channel for the port.

**The Choices:** 3 (default), 1.

## Power After Power Fail

This setting specifies whether your system will reboot after a power fail or interrupts occurs.

Off Leaves the computer in the power off state.

On Reboots the computer.

Former-Sts Restores the system to the status before power failure or interrupt occurs.

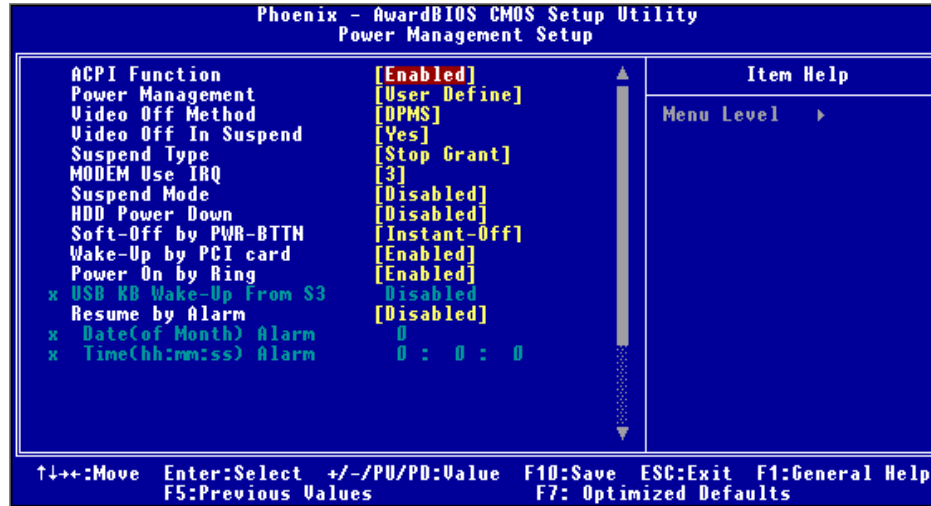
**The Choices:** Off (default), On, Former-Sts.

# 865GV Micro 775

## 6 Power Management Setup

The Power Management Setup Menu allows you to configure your system to utilize energy conservation and power up/power down features.

■ **Figure 6. Power Management Setup**



### ACPI Function

This item displays the status of the Advanced Configuration and Power Management (ACPI).

**The Choices:** Enabled (default), Disabled.

### Power Management

This category allows you to select the type (or degree) of power saving and is directly related to the following modes:

- 1.HDD Power Down.
- 2.Doze Mode.
- 3.Suspend Mode.

There are four options of Power Management, three of which have fixed mode settings

Min. Saving

Minimum power management.

Doze Mode = 1 hr.

Standby Mode = 1 hr

Suspend Mode = 1 hr.

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HDD Power Down = 15 min

## Max Saving

Maximum power management only available for sl CPU's.

Doze Mode = 1 min

Standby Mode = 1 min.

Suspend Mode = 1 min.

HDD Power Down = 1 min.

## User Defined (default)

Allows you to set each mode individually.

When not disabled, each of the ranges are from 1 min. to 1 hr. except for HDD Power Down which ranges from 1 min. to 15 min. and disable.

## Video Off Method

This option determines the manner in which the monitor is goes blank.

### V/H SYNC+Blank

This selection will cause the system to turn off the vertical and horizontal synchronization ports and write blanks to the video buffer.

### Blank Screen

This option only writes blanks to the video buffer.

### DPMS (default)

Initial display power management signaling.

## Video Off In Suspend

This determines the manner in which the monitor is blanked.

**The Choices:** Yes (default), No.

## Suspend Type

Select the Suspend Type.

**The Choices:** Stop Grant (default), PwrOn Suspend.

## MODEM Use IRQ

This determines the IRQ, which can be applied in MODEM use.

**The Choices:**3 (default)/ 4 / 5 / 7 / 9 / 10 / 11 / NA.

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## Suspend Mode

When enabled and after the set time of system inactivity, all devices except the CPU will be shut off.

**The Choices:** Disabled (default), 1Min, 2Min, 4Min, 8Min, 12Min, 20Min, 30Min, 40Min, 1Hour.

## HDD Power Down

When enabled and after the set time of system inactivity, the hard disk drive will be powered down while all other devices remain active.

**The Choices:** Disabled (default), 1Min, 2Min, 3Min, 4Min, 5Min, 6Min, 7Min, 8Min, 9Min, 10Min, 11Min, 12Min, 13Min, 14Min, 15Min.

## Soft-Off by PWR-BTTN

Pressing the power button for more than 4 seconds forces the system to enter the Soft-Off state when the system has "hung."

**The Choices:** Delay 4 Sec, Instant-Off (default).

## Wake-Up by PCI card

When you select Enable, a PME signal from PCI card returns the system to Full On state.

**The Choices:** Enabled (default), Disabled

## Power On by Ring

An input signal on the serial Ring Indicator (RI) line (in other words, an incoming call on the modem) awakens the system from a soft off state.

**The Choices:** Enabled (default), Disabled

## Resume by Alarm

This function is for setting date and time for your computer to boot up. During Disabled, you cannot use this function. During Enabled, Choose the Date and Time.

**The Choices:** Disabled (default), Enabled.

## Date (of Month) Alarm

You can choose which month the system will boot up.

Time (hh:mm:ss) Alarm

You can choose what hour, minute and second the system will boot up.

**Note: If you have change the setting, you must let the system boot up until it goes to the operating system, before this function will work.**

## Reload Timer Events

### **Primary/Secondary IDE 0/1**

You can select to enable or disable Primary or Secondary RAID 0 or RAID 1 function under this item.

## **865GV Micro 775**

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**The Choices:** Disabled (default), Enabled.

### **FDD, COM, LPT Port**

You can select to enable or disable FDD, COM, and LPT port under this item.

**The Choices:** Disabled (default), Enabled.

### **PCI PIRQ [A-D]#**

You can select to enable or disable PCI PIRQ [A-D]# under this item.

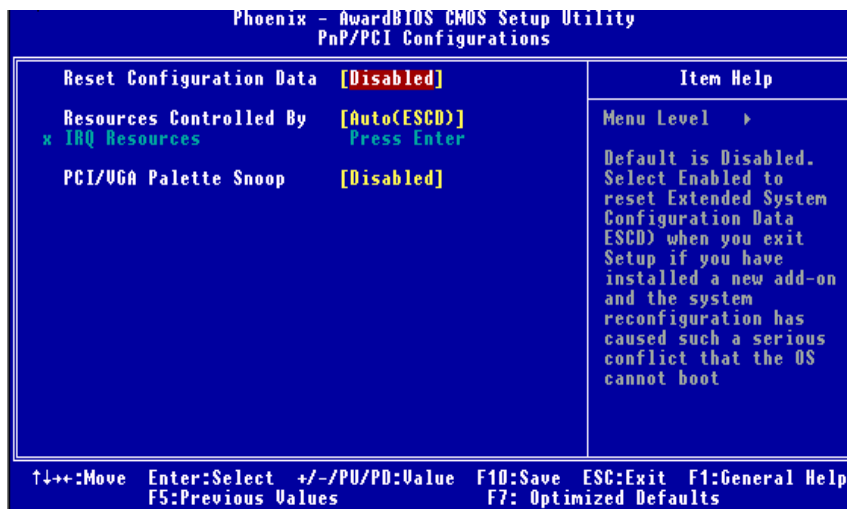
**The Choices:** Disabled (default), Enabled.

# 865GV Micro 775

## 7 PnP/PCI Configurations

This section describes configuring the PCI bus system. PCI, or Personal Computer Interconnect, is a system which allows I/O devices to operate at speeds nearing the speed of the CPU itself uses when communicating with its own special components. This section covers some very technical items and it is strongly recommended that only experienced users should make any changes to the default settings.

### ■ Figure 7. PnP/PCI Configurations



### Reset Configuration Data

The system BIOS supports the PnP feature which requires the system to record which resources are assigned and protects resources from conflict. Every peripheral device has a node, which is called ESCD. This node records which resources are assigned to it. The system needs to record and update ESCD to the memory locations. These locations (4K) are reserved in the system BIOS. If the Disabled (default) option is chosen, the system's ESCD will update only when the new configuration varies from the last one. If the Enabled option is chosen, the system is forced to update ESCDs and then is automatically set to the "Disabled" mode.

The above settings will be shown on the screen only if "Manual" is chosen for the resources controlled by function.

Legacy is the term, which signifies that a resource is assigned to the ISA Bus and provides non-PnP ISA add-on cards. PCI / ISA PnP signifies that a resource is assigned to the PCI Bus or provides for ISA PnP add-on cards and peripherals.

**The Choices:** Disabled (default), Enabled.



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## Resources Controlled By

By Choosing “**Auto(ESCD)**” (default), the system BIOS will detect the system resources and automatically assign the relative IRQ and DMA channel for each peripheral. By Choosing “Manual”, the user will need to assign IRQ & DMA for add-on cards. Be sure that there are no IRQ/DMA and I/O port conflicts.

## IRQ Resources

This submenu will allow you to assign each system interrupt a type, depending on the type of device using the interrupt. When you press the “Press Enter” tag, you will be directed to a submenu that will allow you to configure the system interrupts. This is only configurable when “Resources Controlled By” is set to “Manual”.

|        |             |            |
|--------|-------------|------------|
| IRQ-3  | assigned to | PCI Device |
| IRQ-4  | assigned to | PCI Device |
| IRQ-5  | assigned to | PCI Device |
| IRQ-7  | assigned to | PCI Device |
| IRQ-9  | assigned to | PCI Device |
| IRQ-10 | assigned to | PCI Device |
| IRQ-11 | assigned to | PCI Device |
| IRQ-12 | assigned to | PCI Device |
| IRQ-14 | assigned to | PCI Device |
| IRQ-15 | assigned to | PCI Device |

## PCI/ VGA Palette Snoop

Choose Disabled or Enabled. Some graphic controllers which are not VGA compatible take the output from a VGA controller and map it to their display as a way to provide boot information and VGA compatibility.

However, the color information coming from the VGA controller is drawn from the palette table inside the VGA controller to generate the proper colors, and the graphic controller needs to know what is in the palette of the VGA controller. To do this, the non-VGA graphic controller watch for the Write access to the VGA palette and registers the snoop data. In PCI based systems, where the VGA controller is on the PCI bus and a non-VGA graphic controller is on an ISA bus, the Write Access to the palette will not show up on the ISA bus if the PCI VGA controller responds to the Write.

In this case, the PCI VGA controller should not respond to the Write, it should only snoop the data and permit the access to be forwarded to the ISA bus. The non-VGA ISA graphic controller can then snoop the data on the ISA bus. Unless you have the above situation, you should disable this option.

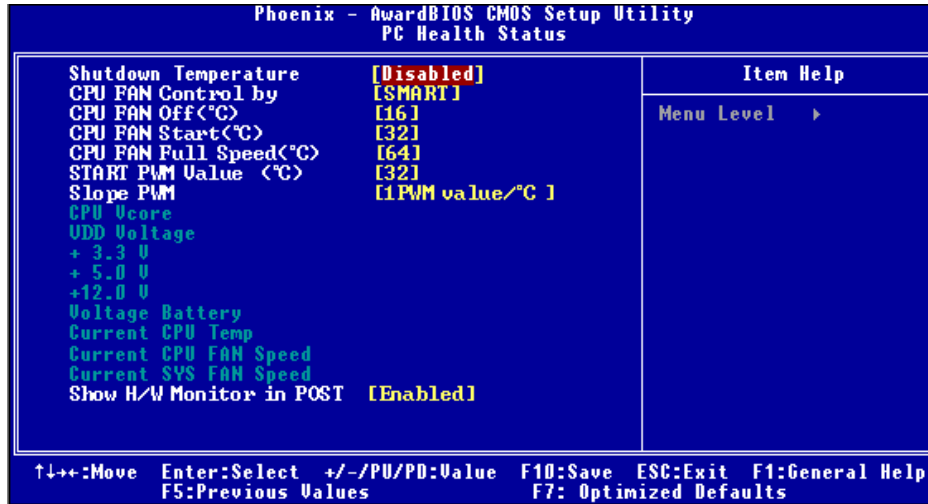
**Disabled** (default) Disable the function.

Enabled Enable the function.

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## 8 PC Health Status

■ Figure 8. PC Health Status



### Shutdown Temperature

This item allows you to set up the CPU shutdown Temperature. This item is only effective under Windows 98 ACPI mode.

**The Choices:** 60°C/140°F, 65°C/149°F, 70°C/140°F, **Disabled** (default).

### SYS FAN Control by

Choose "smart" to reduce the noise caused by the System FAN.

**The Choices:** SMART (default), Always On.

### CPU Fan Off<°C>

If the CPU Temperature is lower than the set value, FAN will turn off.

**The Choices:** 16 (default).

### CPU Fan Start<°C>

CPU fan starts to work under smart fan function when arrive this set value.

**The Choices:** 32(default).

### CPU Fan Full speed <°C>

When CPU temperature is reach the set value, the CPU fan will work under Full Speed.

**The Choices:** 52(default).

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## **Start PWM Value**

When CPU temperature arrives to the set value, the CPU fan will work under Smart Fan Function mode. The range is from 0~127, with an interval of 1.

**The Choices:** 32 (default).

## **Slope PWM**

Increasing the value of slope PWM will raise the speed of CPU fan.

**The Choices:** 1 PWM Value/°C (default), 2 PWM Value/°C, 4 PWM Value/°C, 8 PWM Value/°C, 16 PWM Value/°C, 32 PWM Value/°C, 64 PWM Value/°C.

## **CPU Vcore, VDDP Voltage, +3.3V, +5.0V, +12.0V, Voltage Battery**

Detect the system's voltage status automatically.

## **Current CPU Temp**

Show you the current CPU temperature.

## **Current CPU FAN Speed**

This field displays the current CPU FAN speed.

## **Current SYS FAN Speed**

This field displays the current speed SYSTEM fan.

## **Show H/W Monitor in POST**

If your computer contains a monitoring system, it will show PC health status during POST stage. The item offers several different delay times.

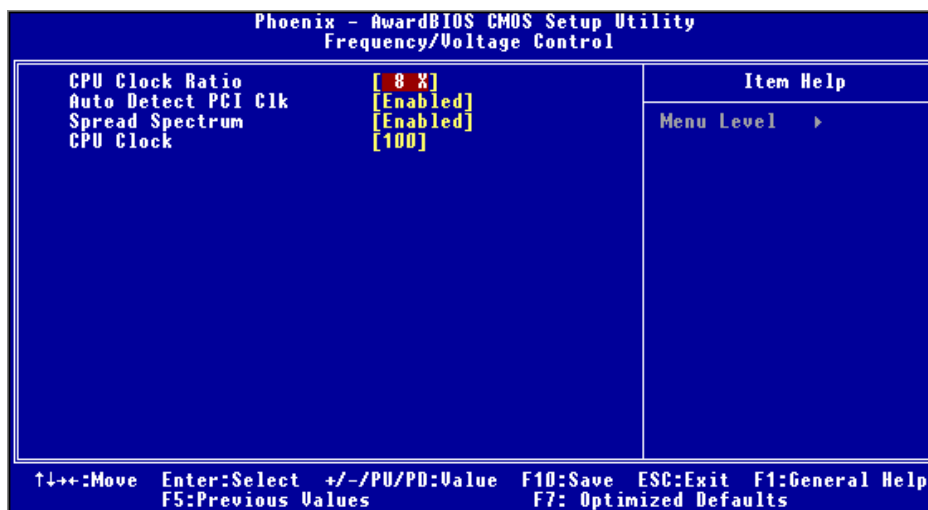
**The Choices:** Enabled (default), Disabled.

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## 9 Frequency /Voltage Control

■ Figure 9. Frequency Control



### CPU Clock Ratio

The Choices: 8 X (default).  
Min= 8,Max= 50,Key in a DEC number.

### Auto Detect PCI Clk

This item allows you to enable / disable auto Detect PCI Clock.  
The Choices: Enabled (default), Disabled.

### Spread Spectrum

This item allows you to enable / disable spectrum for all clock.  
The Choices: Enabled (default), Disabled.

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## CPU Clock

This item allows you to select CPU Clock, and CPU over clocking.

**The Choices: 100** (default).

Min= 100,Max= 255,Key in a DEC number.



If unfortunately, the system's frequency that you are selected is not functioning, there are two methods of booting-up the system.

Method 1: Clear the COMS data by setting the JCOMS1 ((2-3 closed)) as "ON" status. All the CMOS data will be loaded as defaults setting.

Method 2: Press the <Insert> key and Power button simultaneously, after that keep-on pressing the <Insert> key until the power-on screen showed. This action will boot-up the system according to FSB of the processor.

※ **It's strongly recommended to set CPU Vcore and clock in default setting. If the CPU Vcore and clock are not in default setting, it may cause CPU or M/B damage.**