

===== **945G Micro 775SE & 945GZ Micro 775** =====
Setup Manual

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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
-  Serial ATA Power Cable X 1 (optional)
-  USB 2.0 Cable X1 (optional)
-  S/PDIF out Cable X 1 (optional)

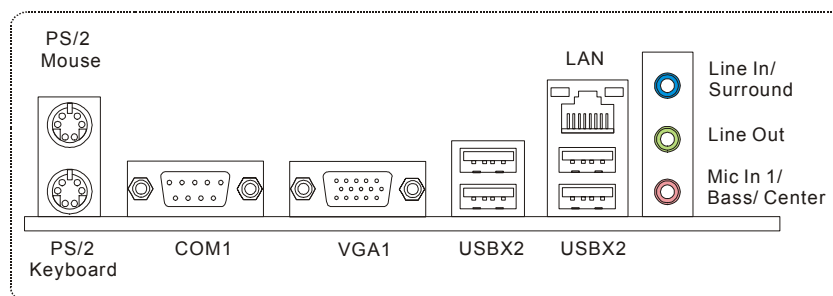
1.3 MOTHERBOARD FEATURES

	945G Micro 775SE	945GZ Micro 775
CPU	LGA 775 Intel Core2Duo / Pentium 4 / Pentium D / Celeron D processor up to 3.8 GHz Supports Hyper-Threading Execute Disable Bit Enhanced Intel SpeedStep Extended Memory 64 Technology	LGA 775 Intel Core2Duo / Pentium 4 / Pentium D / Celeron D processor up to 3.8 GHz Supports Hyper-Threading Execute Disable Bit Enhanced Intel SpeedStep Extended Memory 64 Technology
FSB	533 / 800 / 1066 MHz	533 / 800 MHz
Chipset	Intel 945G Intel ICH7	Intel 945GZ Intel ICH7
Graphics	Intel GMA 950	Intel GMA 950
Super I/O	ITE IT8712F H/W Monitor Fan Speed Controller ITE's "Smart Guardian" function	ITE IT8712F H/W Monitor Fan Speed Controller ITE's "Smart Guardian" function
Main Memory	DIMM Slots x 2 Each DIMM supports 256/512MB & 1GB DDR2 Max Memory Capacity 2GB Dual Channel Mode DDR2 memory module Supports DDR2 400 / 533 / 667	DIMM Slots x 2 Each DIMM supports 256/512MB & 1GB DDR2 Max Memory Capacity 2GB Dual Channel Mode DDR2 memory module Supports DDR2 400 / 533
IDE	Integrated IDE Controller Ultra DMA 33~100 Bus Master Mode supports PIO Mode 0~4,	Integrated IDE Controller Ultra DMA 33~100 Bus Master Mode supports PIO Mode 0~4,
SATA	Integrated Serial ATA Controller Data transfer rates up to 3.0 Gb/s. SATA Version 2.0 specification compliant.	Integrated Serial ATA Controller Data transfer rates up to 3.0 Gb/s. SATA Version 2.0 specification compliant.
10/100 LAN	Realtek 8100C 10 / 100 Mb/s auto negotiation Half / Full duplex capability	Realtek 8100C 10 / 100 Mb/s auto negotiation Half / Full duplex capability
Sound Codec	ALC655 6 channels audio out AC'97 Version 2.3	ALC655 6 channels audio out AC'97 Version 2.3
Slots	PCI Express x16 slot x1 PCI Express x1 slot x1 PCI slot x2	PCI Express x16 slot x1 PCI slot x3
On Board Connector	Floppy connector x1 IDE Connector x1	Floppy connector x1 IDE Connector x1

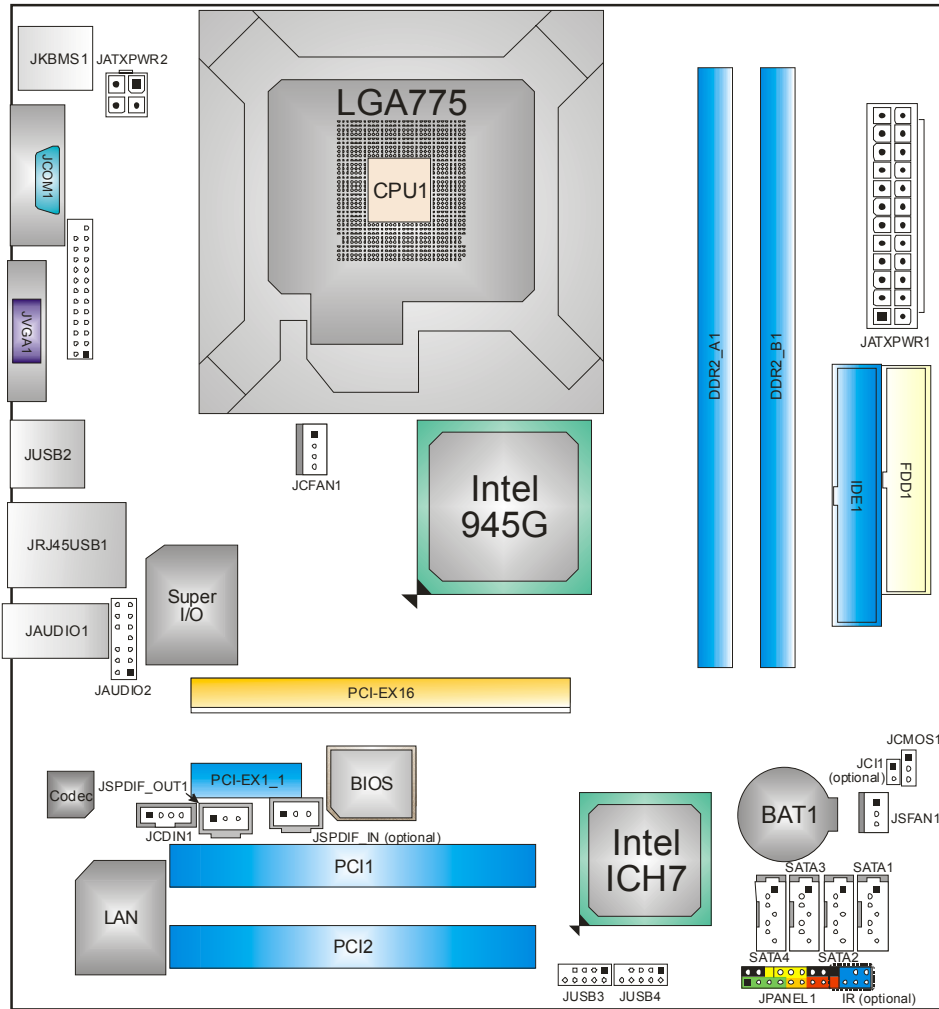
945G Micro 775SE & 945GZ Micro 775

	945G Micro 775SE	945GZ Micro 775
	Printer Port Connector x1	Printer Port Connector x1
	SATA Connector x4	SATA Connector x4
	Front Panel Connector x1	Front Panel Connector x1
	Front Audio Connector x1	Front Audio Connector x1
	CD-in Connector x1	CD-in Connector x1
	SPDIF in connector (optional) x1	SPDIF 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
	Chassis open header (optional) x1	Chassis open header (optional) x1
	Clear CMOS header x1	Clear CMOS header x1
	USB connector x2	USB connector x2
	Power Connector (24pin) x1	Power Connector (24pin) x1
	Power Connector (4pin) x1	Power Connector (4pin) x1
Back Panel I/O	PS/2 Keyboard x1	PS/2 Keyboard x1
	PS/2 Mouse x1	PS/2 Mouse x1
	Serial Port x1	Serial 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	220 (W) x 235 (L) mm	220 (W) x 235 (L) mm
OS Support	Windows 2000 / XP Biostar Reserves the right to add or remove support for any OS with or without notice.	Windows 2000 / XP Biostar Reserves the right to add or remove support for any OS with or without notice.

1.4 REAR PANEL CONNECTORS

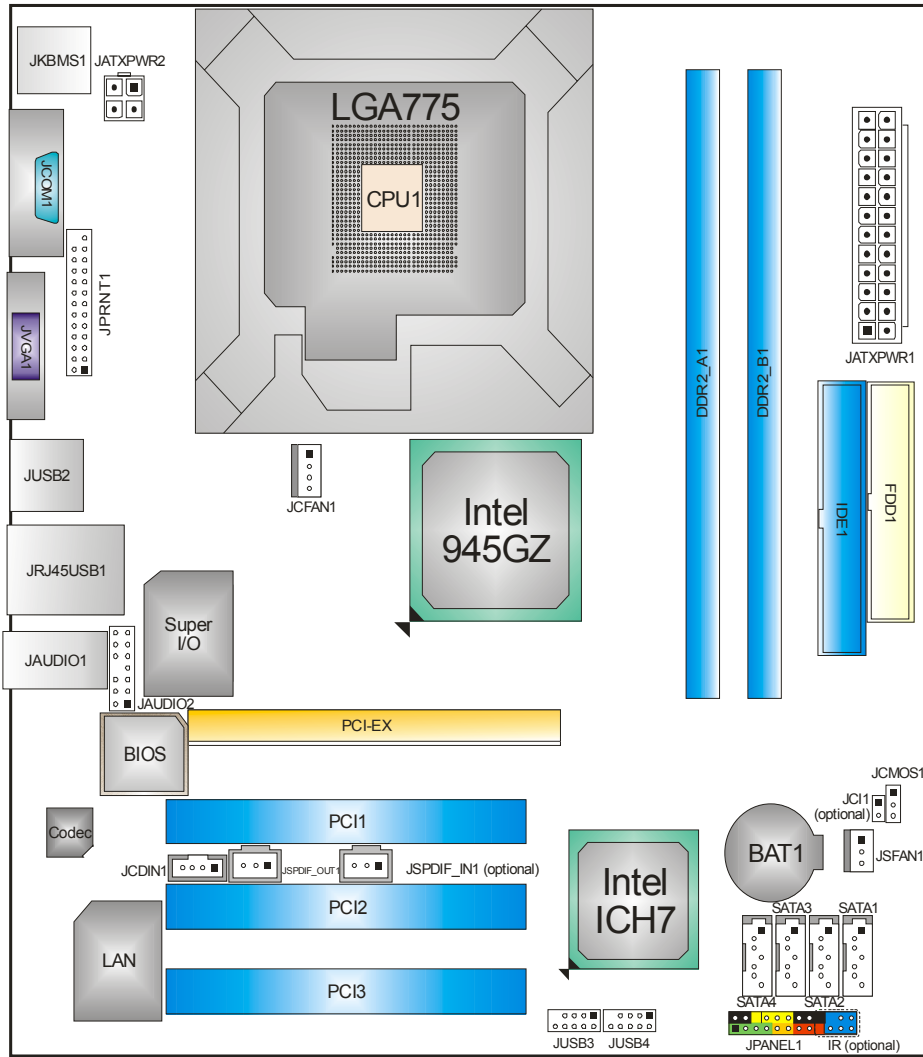


1.5 MOTHERBOARD LAYOUT (945G MICRO 775E)



Note: ■ represents the 1st pin.

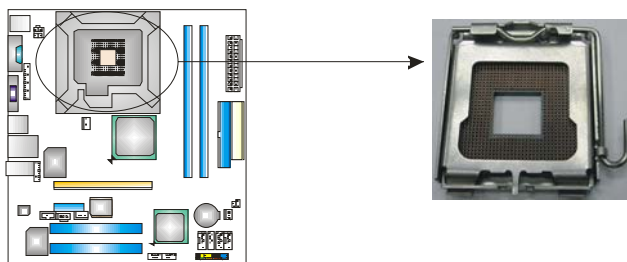
1.6 MOTHERBOARD LAYOUT (945GZ MICRO 775)



Note: ■ represents the 1st pin.

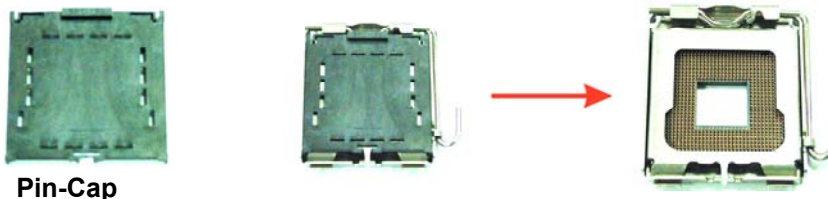
CHAPTER 2: HARDWARE INSTALLATION

2.1 INSTALLING CENTRAL PROCESSING UNIT (CPU)

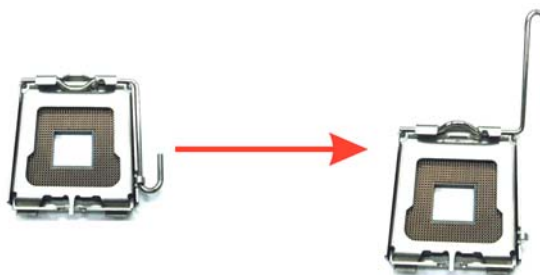


Special Notice:

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.



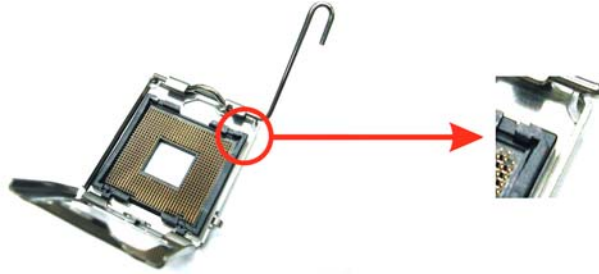
Step 1: Pull the socket locking lever out from the socket and then raise the lever up to a 90-degree angle.



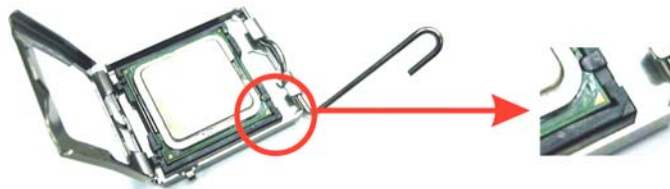
945G Micro 775SE & 945GZ Micro 775

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.

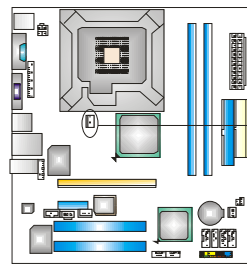


Step 4: Put the CPU Fan and heatsink assembly on the CPU and buckle it on the retention frame. Connect the CPU FAN power cable into the JCFAN1. This completes the installation.

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

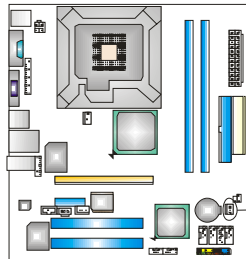


JCFAN1



Pin	Assignment
1	Ground
2	Power
3	FAN RPM rate sense
4	Smart Fan Control

JSFAN1: System Fan Header



JSFAN1



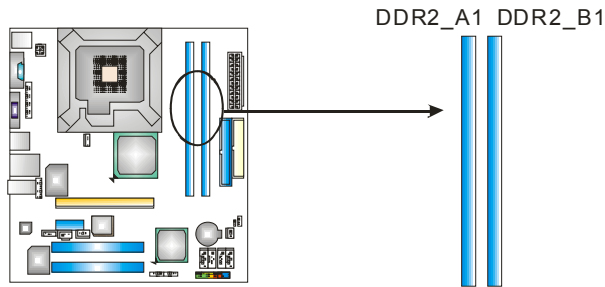
Pin	Assignment
1	Ground
2	+12V
3	FAN RPM rate sense

Note:

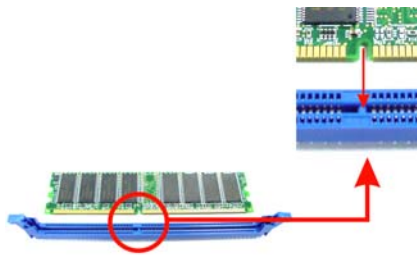
The JCFAN1 and JSFAN1 support 4-pin and 3-pin head connector. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

2.3 INSTALLING SYSTEM MEMORY

A. DDR2 module



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



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



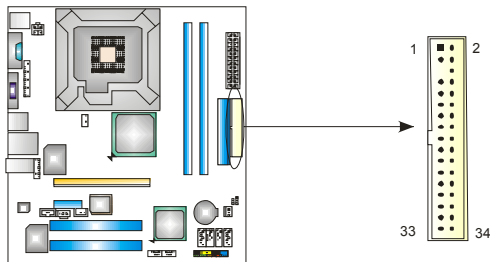
B. Memory Capacity

DIMM Socket Location	DDR2 Module	Total Memory Size
DDR2_A1	256MB/512MB/1GB *1	Max memory 2GB.
DDR2_B1	256MB/512MB/1GB *1	

2.4 CONNECTORS AND SLOTS

FDD1: Floppy Disk Connector

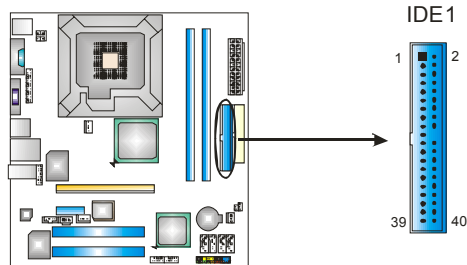
The motherboard provides a standard floppy disk connector that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types. This connector supports the provided floppy drive ribbon cables.



IDE1: Hard Disk Connectors

The motherboard has a 32-bit Enhanced PCI IDE Controller that provides PIO Mode 0~4, Bus Master, and Ultra DMA 33/66/100/133 functionality.

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.



945G Micro 775SE & 945GZ Micro 775

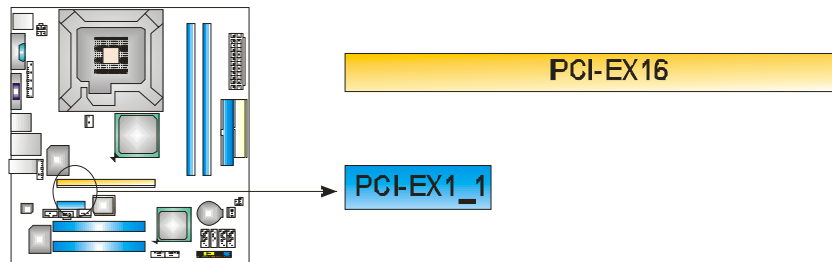
PCI-Ex16: PCI-Express x16 Slot

- PCI-Express 1.0a compliant.
- Maximum theoretical realized bandwidth of 4GB/s simultaneously per direction, for an aggregate of 8GB/s totally.

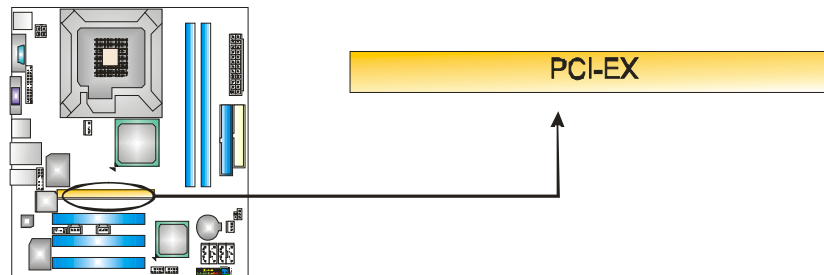
PCI-Ex1_1: PCI-Express x1 slots (945G Micro 775SE only)

- PCI-Express 1.0a compliant.
- Data transfer bandwidth up to 250MB/s per direction; 500MB/s in total.
- PCI-Express supports a raw bit-rate of 2.5Gb/s on the data pins.
- 2X bandwidth over the traditional PCI architecture.

945G Micro 775SE



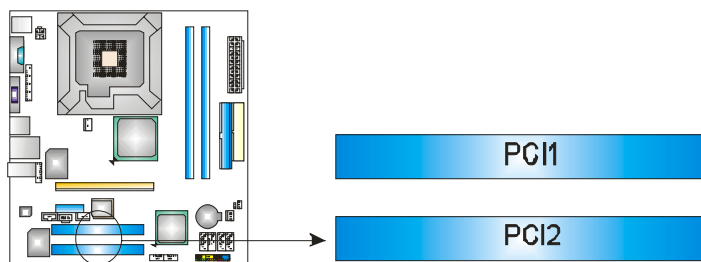
945GZ Micro 775



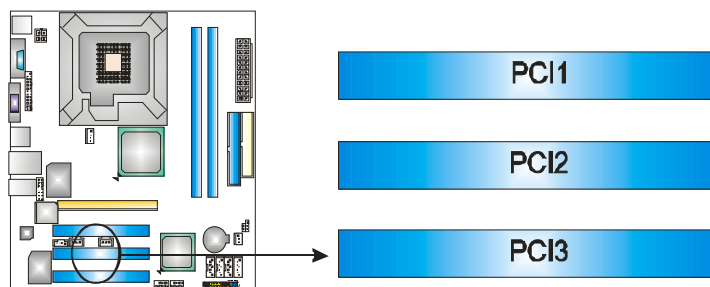
PCI1~PCI3: Peripheral Component Interconnect Slots

945G Micro 775SE is equipped with 2 standard PCI slots, and 945GZ Micro 775 is equipped with 3 PCI 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.

945G Micro 775SE



945GZ Micro 775



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”.



Pin opened



Pin closed

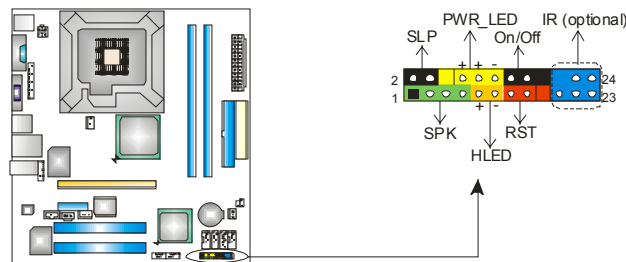


Pin1-2 closed

3.2 DETAIL SETTINGS

JPANEL1: Front Panel Header

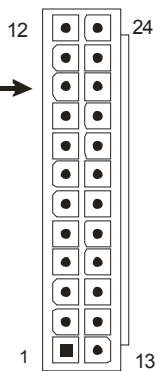
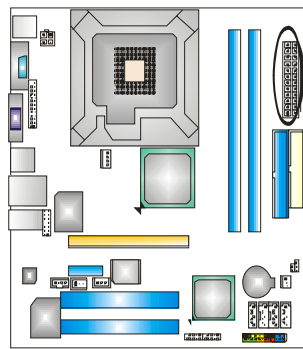
This 24-pin connector includes Power-on, Reset, HDD LED, Power LED, Sleep button, speaker and IrDA Connection. It allows user to connect the PC case's front panel switch functions.



Pin	Assignment	Function	Pin	Assignment	Function
1	+5V	Speaker Connector	2	Sleep control	Sleep button
3	N/A		4	Ground	
5	N/A		6	N/A	N/A
7	Speaker		8	Power LED (+)	Power LED
9	HDD LED (+)	10	Power LED (+)		
11	HDD LED (-)	12	Power LED (-)		
13	Ground	Reset button	14	Power button	Power-on button
15	Reset control		16	Ground	
17	N/A	IrDA Connector	18	Key	IrDA Connector
19	N/A		20	Key	
21	+5V		22	Ground	
23	IRTX		24	IRRX	

JATXPWR1: ATX Power Source Connector

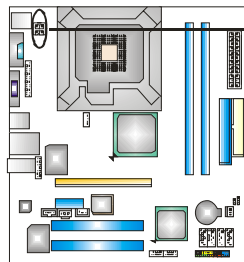
This connector allows user to connect 24-pin power connector on the ATX power supply.



Pin	Assignment
1	+3.3V
2	+3.3V
3	Ground
4	+5V
5	Ground
6	+5V
7	Ground
8	PW_OK
9	Standby Voltage +5V
10	+12V
11	+12V
12	2 x 12 Detect
13	+3.3V
14	-12V
15	Ground
16	PS_ON
17	Ground
18	Ground
19	Ground
20	-5V
21	+5V
22	+5V
23	+5V
24	Ground

JATXPWR2: ATX Power Source Connector

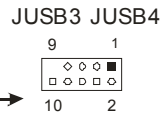
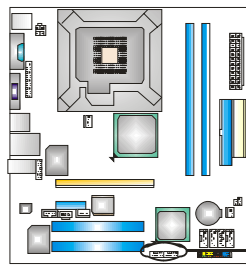
By connecting this connector, it will provide +12V to CPU power circuit.



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

JUSB3/JUSB4: Headers for USB 2.0 Ports at Front Panel

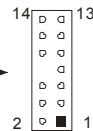
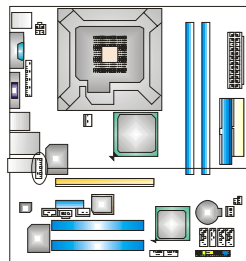
This motherboard provides 2 USB 2.0 headers, which allows user to connect additional USB cable on the PC front panel, and also can be connected with internal USB devices, like USB card reader.



Pin	Assignment
1	+5V (fused)
2	+5V (fused)
3	USB-
4	USB-
5	USB+
6	USB+
7	Ground
8	Ground
9	Key
10	NC

JAUDIO2: Front Panel Audio Header

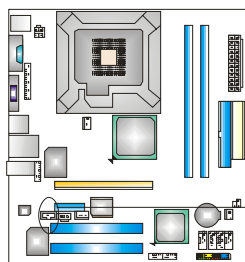
This header allows user to connect the front audio output cable with the PC front panel. It will disable the output on back panel audio connectors.



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

JCDIN1: CD-ROM Audio-in Connector

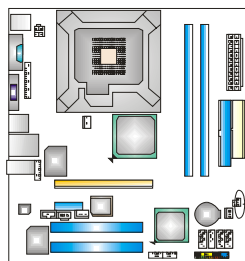
This connector allows user to connect the audio source from the variety devices, like CD-ROM, DVD-ROM, PCI sound card, PCI TV turner card etc..



Pin	Assignment
1	Left Channel Input
2	Ground
3	Ground
4	Right Channel 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.



Pin 1-2 Close:
Normal Operation (Default).



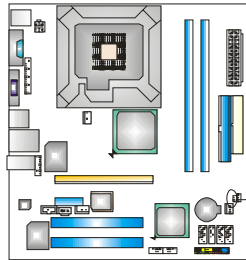
Pin 2-3 Close:
Clear CMOS data.

※ 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.

JCI1: Chassis Open Header

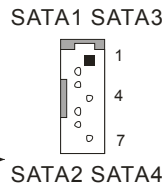
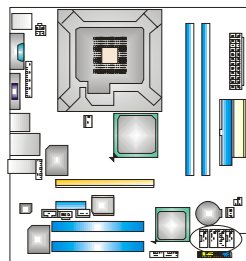
This connector allows system to monitor PC case open status. If the signal has been triggered, it will record to the CMOS and show the message on next boot-up.



Pin	Assignment
1	Case open signal
2	Ground

JSATA1~JSATA4: Serial ATA Connectors

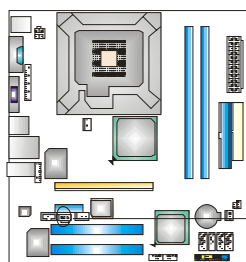
The motherboard has a PCI to SATA Controller with 4channels SATA interface, it satisfies the SATA 2.0 spec and with transfer rate of 3Gb/s.



Pin	Assignment
1	Ground
2	TX+
3	TX-
4	Ground
5	RX-
6	RX+
7	Ground

JSPDIF_OUT1: Digital Audio out Connectors

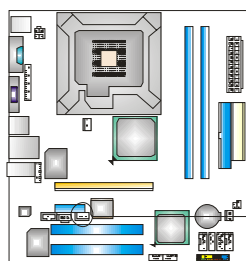
This connector allows user to connect the PCI bracket SPDIF output header.



Pin	Assignment
1	+5V
2	SPDIF_OUT1
3	Ground

JSPDI_IN1: Digital Audio in Connectors (optional)

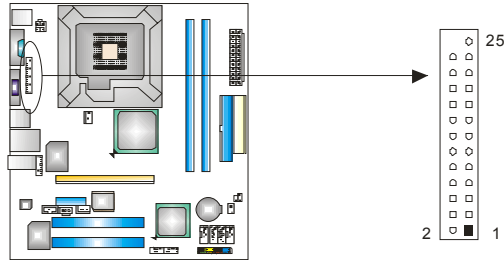
This connector allows user to connect the PCI bracket SPDIF input header.



Pin	Assignment
1	+5V
2	SPDIF_IN1
3	Ground

JPRNT1: Printer Port Connector

This header allows you to connector printer on the PC.



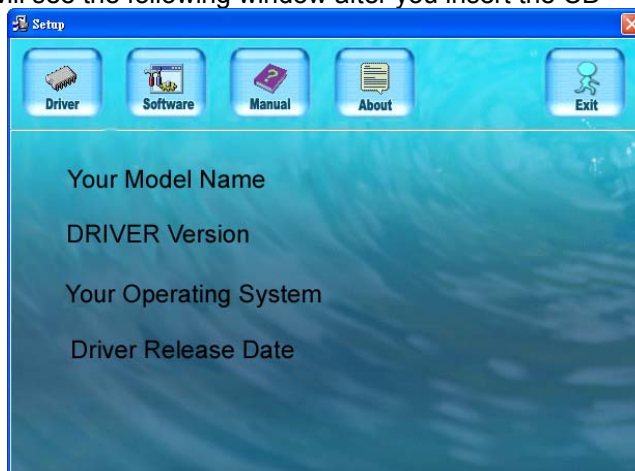
Pin	Assignment	Pin	Assignment
1	-Strobe	14	Ground
2	-ALF	15	Data 6
3	Data 0	16	Ground
4	-Error	17	Data 7
5	Data 1	18	Ground
6	-Init	19	-ACK
7	Data 2	20	Ground
8	-Scltin	21	Busy
9	Data 3	22	Ground
10	Ground	23	PE
11	Data 4	24	Ground
12	Ground	25	SCLT
13	Data 5		

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>

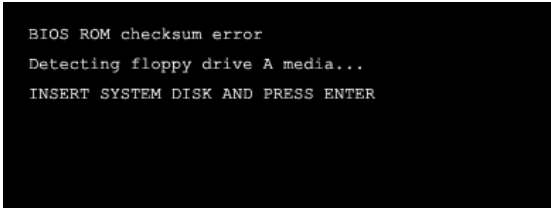
4.2 AWARD BIOS BEEP CODE

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 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.



```
BIOS ROM checksum error
Detecting floppy drive A media...
INSERT SYSTEM DISK AND PRESS ENTER
```

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
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
1. No power to the system at all Power light don't illuminate, fan inside power supply does not turn on. 2. Indicator light on keyboard does not turn on.	1. Make sure power cable is securely plugged in. 2. Replace cable. 3. Contact technical support.
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.	1. 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. 2. Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time.
System only boots from optical drive. Hard disk can be read and applications can be used but booting from hard disk is impossible.	1. Back up data and applications files. 2. Reformat the hard drive. Re-install applications and data using backup disks.
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.	1. Set master/slave jumpers correctly. 2. Run SETUP program and select correct drive types. Call the drive manufacturers for compatibility with other drives.

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.

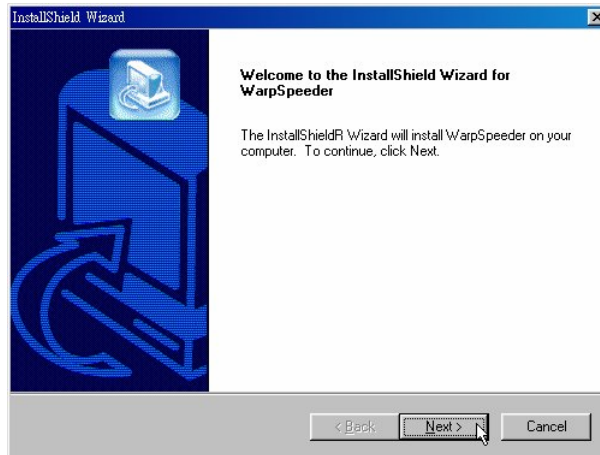
Moreover, to protect users' computer systems if the setting is not appropriate when testing and results in system fail or hang, [WarpSpeeder™] technology assures the system stability by automatically rebooting the computer and then restart to a speed that is either the original system speed or a suitable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

5.2 SYSTEM REQUIREMENT

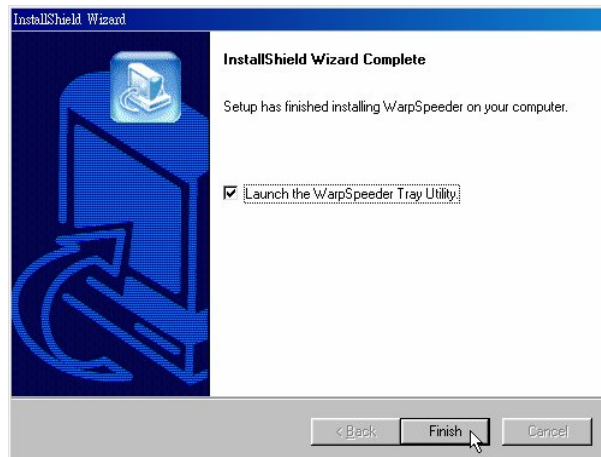
OS Support: Windows 98 SE, Windows Me, Windows 2000, Windows XP
DirectX: DirectX 8.1 or above. (The Windows XP operating system includes DirectX 8.1. If you use Windows XP, you do not need to install DirectX 8.1.)

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.



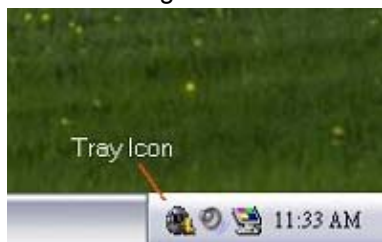
Usage:

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.



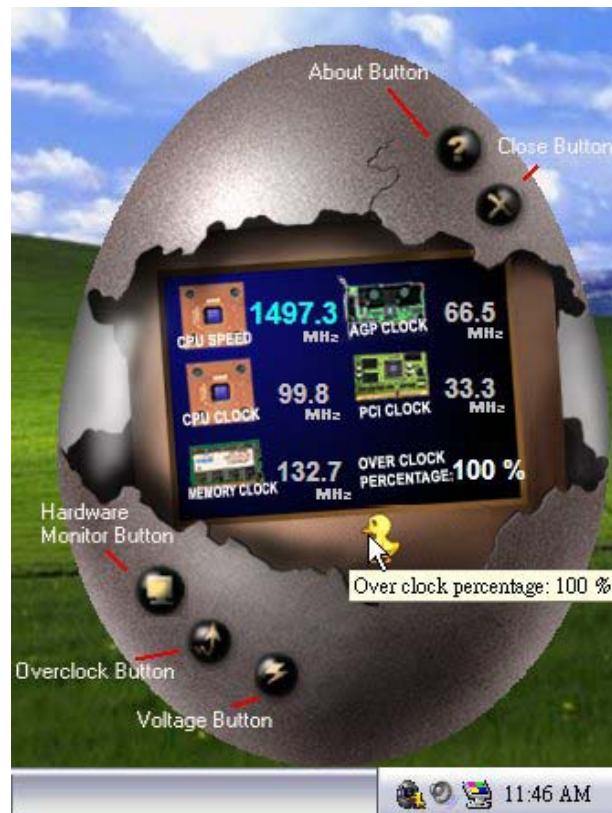
945G Micro 775SE & 945GZ Micro 775

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 clock, Memory clock, AGP clock, and PCI clock 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 overclocking, 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.



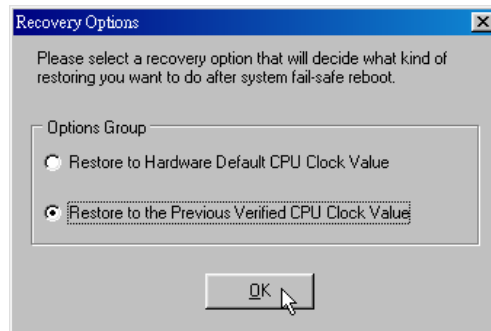
Overclock Panel contains the these features:

- a. “-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 overclocking 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.

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



Motherboard Manual

- 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 your 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.

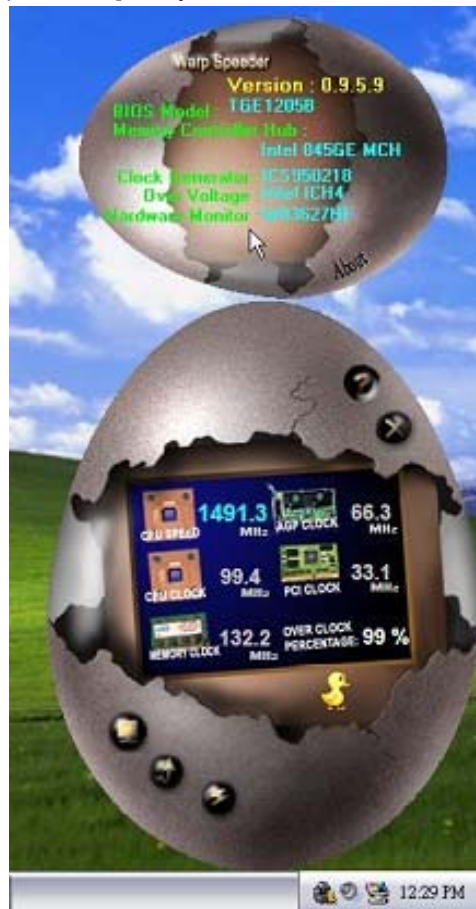
In this panel, you can get the real-time status information of your system. The information will be refreshed every 1 second.



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

	945G Micro 775SE	945GZ Micro 775
CPU	LGA 775 Intel Core2Duo / Pentium 4 / Pentium D / Celeron D Prozessoren mit bis zu 3,8 GHz Unterstützt Hyper-Threading Execute Disable Bit Enhanced Intel SpeedStep® Extended Memory 64 Technology	LGA 775 Intel Core2Duo / Pentium 4 / Pentium D / Celeron D Prozessoren mit bis zu 3,8 GHz Unterstützt Hyper-Threading Execute Disable Bit Enhanced Intel SpeedStep® Extended Memory 64 Technology
FSB	533 / 800 / 1066 MHz	533 / 800 MHz
Chipsatz	Intel 945G Intel ICH7	Intel 945GZ Intel ICH7
Grafik	Intel GMA 950	Intel GMA 950
Super E/A	ITE 8712F Hardware-Überwachung Lüfterdrehzahl-Controller "Smart Guardian"-Funktion von ITE	ITE 8712F Hardware-Überwachung Lüfterdrehzahl-Controller "Smart Guardian"-Funktion von ITE
Arbeitsspeicher	DDR2 DIMM-Steckplätze x 2 Jeder DIMM unterstützt 256/512MB & 1GB DDR Max. 2GB Arbeitsspeicher Dual-Kanal DDR2 Speichermodul Unterstützt DDR2 400 / 533 / 667	DDR2 DIMM-Steckplätze x 2 Jeder DIMM unterstützt 256/512MB & 1GB DDR2 Max. 2GB Arbeitsspeicher Dual-Kanal DDR2 Speichermodul Unterstützt DDR2 400 / 533
IDE	Integrierter IDE-Controller Ultra DMA 33 / 66 / 100 Bus Master-Modus Unterstützt PIO-Modus 0~4	Integrierter IDE-Controller Ultra DMA 33 / 66 / 100 Bus Master-Modus Unterstützt PIO-Modus 0~4
SATA	Integrierter Serial ATA-Controller Datenferrate bis zu 3Gb/s Konform mit der SATA-Spezifikation Version 2.0	Integrierter Serial ATA-Controller Datenferrate bis zu 3Gb/s Konform mit der SATA-Spezifikation Version 2.0
LAN	Realtek 8100C 10 / 100 Mb/s Auto-Negotiation Halb-/ Vollduplex-Funktion	Realtek 8100C 10 / 100 Mb/s Auto-Negotiation Halb-/ Vollduplex-Funktion
Audio-Codec	ALC 655 6-Kanal-Audioausgabe	ALC 655 6-Kanal-Audioausgabe

945G Micro 775SE & 945GZ Micro 775

	945G Micro 775SE	945GZ Micro 775		
	AC'97 Version 2.3	AC'97 Version 2.3		
Steckplätze	PCI Express x16 Steckplatz	x1	PCI Express x16 Steckplatz	x1
	PCI Express x 1-Steckplatz	x1		
	PCI-Steckplatz	x2	PCI-Steckplatz	x3
Onboard-Anschluss	Diskettenlaufwerkanschluss	x1	Diskettenlaufwerkanschluss	x1
	IDE-Anschluss	x1	IDE-Anschluss	x2
	Druckeranschluss Anschluss	x1	Druckeranschluss Anschluss	x1
	SATA-Anschluss	x4	SATA-Anschluss	x4
	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
	"Gehäuse offen"-Sockel (optional)	x1	"Gehäuse offen"-Sockel (optional)	x1
	"CMOS löschen"-Sockel	x1	"CMOS löschen"-Sockel	x1
	USB-Anschluss	x2	USB-Anschluss	x2
Stromanschluss (24-polig)	x1	Stromanschluss (24-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
	VGA-Anschluss	x1	VGA-Anschluss	x1
	LAN-Anschluss	x1	LAN-Anschluss	x1
	USB-Anschluss	x4	USB-Anschluss	x4
	Audioanschluss	x3	Audioanschluss	x3
Platinengröße	220 mm (B) X 235 mm (L)		220 mm (B) X 235 mm (L)	
OS-Unterstützung	Windows 2000 / XP Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.		Windows 2000 / XP Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.	

FRANCE

	945G Micro 775SE	945GZ Micro 775
UC	LGA 775 Processeurs Intel Core2Duo / Pentium 4 / Pentium D / Celeron D jusqu'à 3,4 GHz Prend en charge les technologies Hyper-Threading d'exécution de bit de désactivation Intel SpeedStep® optimisée de mémoire étendue 64	LGA 775 Processeurs Intel Core2Duo / Pentium 4 / Pentium D / Celeron D jusqu'à 3,4 GHz Prend en charge les technologies Hyper-Threading d'exécution de bit de désactivation Intel SpeedStep® optimisée de mémoire étendue 64
Bus frontal	533 / 800 / 1066 MHz	533 / 800 MHz
Chipset	Intel 945G Intel ICH7	Intel 945GZ Intel ICH7
Graphiques	Intel GMA 950	Intel GMA 950
Super E/S	ITE 8712F Moniteur de matériel Contrôleur de vitesse de ventilateur Fonction "Gardien intelligent" de l'ITE	ITE 8712F Moniteur de matériel Contrôleur de vitesse de ventilateur Fonction "Gardien intelligent" de l'ITE
Mémoire principale	Fentes DDR2 DIMM x 2 Chaque DIMM prend en charge des DDR2 de 256/512 Mo et 1Go Capacité mémoire maximale de 2 Go Module de mémoire DDR2 à mode à double voie Prend en charge la DDR2 400 / 533 / 667	Fentes DDR2 DIMM x 2 Chaque DIMM prend en charge des DDR2 de 256/512 Mo et 1Go Capacité mémoire maximale de 2 Go Module de mémoire DDR2 à mode à double voie Prend en charge la DDR2 400 / 533
IDE	Contrôleur IDE intégré Mode principale de Bus Ultra DMA 33 / 66 / 100 Prend en charge le mode PIO 0~4,	Contrôleur IDE intégré Mode principale de Bus Ultra DMA 33 / 66 / 100 Prend en charge le mode PIO 0~4,
SATA	Contrôleur Serial ATA intégré : Taux de transfert jusqu'à 3 Go/s. Conforme à la spécification SATA Version 2.0	Contrôleur Serial ATA intégré : Taux de transfert jusqu'à 3 Go/s. Conforme à la spécification SATA Version 2.0
LAN	Realtek 8100C 10 / 100 Mb/s négociation automatique Half / Full duplex capability	Realtek 8100C 10 / 100 Mb/s négociation automatique Half / Full duplex capability
Codec audio	ALC 655 Sortie audio à 6 voies AC'97 Version 2.3	ALC 655 / ALC658 Sortie audio à 6 voies AC'97 Version 2.3

945G Micro 775SE & 945GZ Micro 775

945G Micro 775SE		945GZ Micro 775		
Fentes	PCI Express x16 Steckplatz	x1	PCI Express x16 Steckplatz	x1
	PCI Express x1 Steckplatz	x1		
	Fente PCI	x2	Fente PCI	x3
Connecteur embarqué	Connecteur de disquette	x1	Connecteur de disquette	x1
	Connecteur IDE	x1	Connecteur IDE	x1
	Connecteur de Port d'imprimante	x1	Connecteur de Port d'imprimante	x1
	Connecteur SATA	x4	Connecteur SATA	x4
	Connecteur du panneau avant	x1	Connecteur du panneau avant	x1
	Connecteur Audio du panneau avant	x1	Connecteur Audio du panneau avant	x1
	Connecteur d'entrée CD	x1	Connecteur d'entrée CD	x1
	Connecteur d'entrée S/PDIF (en option)	x1	Connecteur d'entrée S/PDIF (en option)	x1
	Connecteur de sortie S/PDIF	x1	Connecteur de sortie S/PDIF	x1
	Embase de ventilateur UC	x1	Embase de ventilateur UC	x1
	Embase de ventilateur système	x1	Embase de ventilateur système	x1
	Embase d'ouverture de châssis (optional)	x1	Embase d'ouverture de châssis (optional)	x1
	Embase d'effacement CMOS	x1	Embase d'effacement CMOS	x1
	Connecteur USB	x2	Connecteur USB	x2
	Connecteur d'alimentation (24 broches)	x1	Connecteur d'alimentation (24 broches)	x1
	Connecteur d'alimentation (4 broches)	x1	Connecteur d'alimentation (4 broches)	x1
E/S du panneau arrière	Clavier PS/2	x1	Clavier PS/2	x1
	Souris PS/2	x1	Souris PS/2	x1
	Port série	x1	Port série	x1
	Port VGA	x1	Port VGA	x1
	Port LAN	x1	Port LAN	x1
	Port USB	x4	Port USB	x4
	Fiche audio	x3	Fiche audio	x3
Dimensions de la carte	220mm (l) X 235 mm (H)		220mm (l) X 235 mm (H)	
Support SE	Windows 2000 / XP		Windows 2000 / XP	
	Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis.		Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis.	

ITALIAN

	945G Micro 775SE	945GZ Micro 775
CPU	LGA 775 Processore Intel Core2Duo / Pentium 4 / Pentium D / Celeron D fino a 3.8 GHz Supporto di Hyper-Threading Execute Disable Bit Enhanced Intel SpeedStep® Tecnologia Extended Memory 64	LGA 775 Processore Intel Core2Duo / Pentium 4 / Pentium D / Celeron D fino a 3.8 GHz Supporto di Hyper-Threading Execute Disable Bit Enhanced Intel SpeedStep® Tecnologia Extended Memory 64
FSB	533 / 800 / 1066 MHz	533 / 800 MHz
Chipset	Intel 945G Intel ICH7	Intel 945GZ Intel ICH7
Grafica	Intel GMA 950	Intel GMA 950
Super I/O	ITE 8712F Monitoraggio hardware Controller velocità ventolina Funzione "Smart Guardian" di ITE	ITE 8712F Monitoraggio hardware Controller velocità ventolina Funzione "Smart Guardian" di ITE
Memoria principale	Alloggi DIMM DDR2 x 2 Ciascun DIMM supporta DDR2 256/512MB e 1GB Capacità massima della memoria 2GB Modulo di memoria DDR2 a canale doppio Supporto di DDR2 400 / 533 / 667	Alloggi DIMM DDR2 x 2 Ciascun DIMM supporta DDR2 256/512MB e 1GB Capacità massima della memoria 2GB Modulo di memoria DDR2 a canale doppio Supporto di DDR2 400 / 533
IDE	Controller IDE integrato Modalità Bus Master Ultra DMA 33 / 66 / 100 Supporto modalità PIO Mode 0-4	Controller IDE integrato Modalità Bus Master Ultra DMA 33 / 66 / 100 Supporto modalità PIO Mode 0-4
SATA	Controller Serial ATA integrato Velocità di trasferimento dei dati fino a 3 Gb/s. Compatibile specifiche SATA Versione 2.0.	Controller Serial ATA integrato Velocità di trasferimento dei dati fino a 3 Gb/s. Compatibile specifiche SATA Versione 2.0.
LAN	Realtek 8100C Negoziazione automatica 10 / 100 Mb/s Capacità Half / Full Duplex	Realtek 8100C Negoziazione automatica 10 / 100 Mb/s Capacità Half / Full Duplex

945G Micro 775SE & 945GZ Micro 775

	945G Micro 775SE	945GZ Micro 775
Codec audio	ALC 655 Uscita audio 6 canali AC'97 Versione 2.3	ALC 655 Uscita audio 6 canali AC'97 Versione 2.3
Alloggi	Fente PCI Express x16 x1	Fente PCI Express x16 x1
	Fente PCI Express x1 x1	
	Alloggio PCI x2	Alloggio PCI x3
Connettori su scheda	Connettore floppy x1	Connettore floppy x1
	Connettore IDE x1	Connettore IDE x1
	Connettore Porta stampante x1	Connettore Porta stampante x1
	Connettore SATA x4	Connettore SATA x4
	Connettore pannello frontale x1	Connettore pannello frontale x1
	Connettore audio frontale x1	Connettore audio frontale x1
	Connettore CD-in x1	Connettore CD-in x1
	Connettore input S/PDIF (optional) x1	Connettore input S/PDIF (optional) x1
	Connettore output SPDIF x1	Connettore output SPDIF x1
	Collettore ventolina CPU x1	Collettore ventolina CPU x1
	Collettore ventolina sistema x1	Collettore ventolina sistema x1
	Collettore apertura telaio (optional) x1	Collettore apertura telaio (optional) x1
	Collettore cancellazione CMOS x1	Collettore cancellazione CMOS x1
Connettore USB x2	Connettore USB x2	
Connettore alimentazione (24 pin) x1	Connettore alimentazione (24 pin) x1	
Connettore alimentazione (4 pin) x1	Connettore alimentazione (4 pin) x1	
I/O pannello posteriore	Tastiera PS/2 x1	Tastiera PS/2 x1
	Mouse PS/2 x1	Mouse PS/2 x1
	Porta seriale x1	Porta seriale x1
	Porta VGA x1	Porta VGA x1
	Porta LAN x1	Porta LAN x1
	Porta USB x4	Porta USB x4
	Connettore audio x3	Connettore audio x3
Dimensioni scheda	220 mm (larghezza) x 235 mm (altezza)	220 mm (larghezza) x 235 mm (altezza)
Sistemi operativi supportati	Windows 2000 / XP Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.	Windows 2000 / XP Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.

SPANISH

	945G Micro 775SE	945GZ Micro 775
CPU	LGA 775 Procesador Intel Core2Duo / Pentium 4 / Pentium D / Celeron D hasta 3,8 GHz Admite Hyper-Threading Bit de deshabilitación de ejecución Intel SpeedStep® Mejorado Tecnología Extended Memory 64	LGA 775 Procesador Intel Core2Duo / Pentium 4 / Pentium D / Celeron D hasta 3,8 GHz Admite Hyper-Threading Bit de deshabilitación de ejecución Intel SpeedStep® Mejorado Tecnología Extended Memory 64
FSB	533 / 800 / 1066 MHz	533 / 800 MHz
Conjunto de chips	Intel 945G Intel ICH7	Intel 945GZ Intel ICH7
Gráficos	Intel GMA 950	Intel GMA 950
Súper E/S	ITE 8712F Monitor hardware Controlador de velocidad de ventilador Función "Guardia inteligente" de ITE	ITE 8712F Monitor hardware Controlador de velocidad de ventilador Función "Guardia inteligente" de ITE
Memoria principal	Ranuras DIMM DDR2 x 2 Cada DIMM admite DDR2 de 256/512MB y 1GB Capacidad máxima de memoria de 2GB Módulo de memoria DDR2 de canal Doble Admite DDR2 de 400 / 533 / 667	Ranuras DIMM DDR2 x 2 Cada DIMM admite DDR2 de 256/512MB y 1GB Capacidad máxima de memoria de 2GB Módulo de memoria DDR2 de canal Doble Admite DDR2 de 400 / 533
IDE	Controlador IDE integrado Modo bus maestro Ultra DMA 33 / 66 / 100 Soporte los Modos PIO 0~4.	Controlador IDE integrado Modo bus maestro Ultra DMA 33 / 66 / 100 Soporte los Modos PIO 0~4.
SATA	Controlador ATA Serie Integrado Tasas de transferencia de hasta 3 Gb/s. Compatible con la versión SATA 2.0.	Controlador ATA Serie Integrado Tasas de transferencia de hasta 3 Gb/s. Compatible con la versión SATA 2.0.
Red Local	Realtek 8100C Negociación de 10 / 100 Mb/s Funciones Half / Full dúplex	Realtek 8100C Negociación de 10 / 100 Mb/s Funciones Half / Full dúplex
Códecs de sonido	ALC 655 Salida de sonido de 6 canales AC'97 Versión 2.3	ALC 655 Salida de sonido de 6 canales AC'97 Versión 2.3
Ranuras	Ranura PCI Express x16 X1 Ranura PCI Express x1 X1 Ranura PCI X2	Ranura PCI Express x16 X1 Ranura PCI X3

945G Micro 775SE & 945GZ Micro 775

945G Micro 775SE		945GZ Micro 775		
Conectores en placa	Conector disco flexible	X1	Conector disco flexible	X1
	Conector IDE	X1	Conector IDE	X1
	Conector Puerto de impresora	X1	Conector Puerto de impresora	X1
	Conector SATA	X4	Conector SATA	X4
	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 chasis abierto(opcional)	X1	Cabecera de chasis abierto(opcional)	X1
	Cabecera de borrado de CMOS	X1	Cabecera de borrado de CMOS	X1
	Conector USB	X2	Conector USB	X2
	Conector de alimentación (24 patillas)	X1	Conector de alimentación (24 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 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	220 mm. (A) X 235 mm. (H)		220 mm. (A) X 235 mm. (H)	
Soporte de sistema operativo	Windows 2000 / XP Biostar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo.		Windows 2000 / XP Biostar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo.	

PORTUGUESE

	945G Micro 775SE	945GZ Micro 775
CPU	LGA 775 Processador Intel Core2Duo / Pentium 4 / Pentium D / Celeron D até 3,8 GHz Suporta as tecnologias Hyper-Threading Execute Disable Bit Enhanced Intel SpeedStep® Extended Memory 64	LGA 775 Processador Intel Core2Duo / Pentium 4 / Pentium D / Celeron D até 3,8 GHz Suporta as tecnologias Hyper-Threading Execute Disable Bit Enhanced Intel SpeedStep® Extended Memory 64
FSB	533 / 800 / 1066 MHz	533 / 800 MHz
Chipset	Intel 945G Intel ICH7	Intel 945GZ Intel ICH7
Placa gráfica	Intel GMA 950	Intel GMA 950
Especificação do Super I/O	ITE 8712F Monitorização do hardware Controlador da velocidade da ventoinha Função "Smart Guardian" da ITE	ITE 8712F Monitorização do hardware Controlador da velocidade da ventoinha Função "Smart Guardian" da ITE
Memória principal	Ranuras DIMM DDR2 x2 Cada módulo DIMM suporta uma memória DDR2 de 256/512 MB & 1 GB Capacidade máxima de memória: 2 GB Módulo de memória DDR2 de canal duplo Suporta módulos DDR2 400 / 533 / 667	Ranuras DIMM DDR2 x2 Cada módulo DIMM suporta uma memória DDR2 de 256/512 MB & 1 GB Capacidade máxima de memória: 2 GB Módulo de memória DDR2 de canal duplo Suporta módulos DDR2 400 / 533
IDE	Controlador IDE integrado Modo Bus master Ultra DMA 33 / 66 / 100 Suporta o modo PIO 0~4.	Controlador IDE integrado Modo Bus master Ultra DMA 33 / 66 / 100 Suporta o modo PIO 0~4.
SATA	Controlador Serial ATA integrado Velocidades de transmissão de dados até 3 Gb/s. Compatibilidade com a especificação SATA versão 2.0.	Controlador Serial ATA integrado Velocidades de transmissão de dados até 3 Gb/s. Compatibilidade com a especificação SATA versão 2.0.
LAN	Realtek 8100C Auto negociação de 10 / 100 Mb/s Capacidade semi/full-duplex	Realtek 8100C Auto negociação de 10 / 100 Mb/s Capacidade semi/full-duplex
Codec de som	ALC 655 Saída de áudio de 6 canais AC'97 Versão 2.3	ALC 655 Saída de áudio de 6 canais AC'97 Versão 2.3

945G Micro 775SE & 945GZ Micro 775

945G Micro 775SE		945GZ Micro 775		
Ranhuras	Ranhura PCI Express x16	x1	Ranhura PCI Express x16	x1
	Ranhura PCI Express x1	x1		
	Ranhura PCI	x2	Ranhura PCI	x3
Conectores na placa	Conector da unidade de disquetes	x1	Conector da unidade de disquetes	x1
	Conector IDE	x1	Conector IDE	x1
	Conector da para impressora	x1	Conector da para impressora	x1
	Conector SATA	x4	Conector SATA	x4
	Conector do painel frontal	x1	Conector do painel frontal	x1
	Conector de áudio frontal	x1	Conector de áudio frontal	x1
	Conector para entrada de CDs	x1	Conector para entrada de CDs	x1
	Conector de entrada S/PDIF (opcional)	x1	Conector de entrada S/PDIF (opcional)	x1
	Conector de saída S/PDIF	x1	Conector de saída S/PDIF	x1
	Conector da ventoinha da CPU	x1	Conector da ventoinha da CPU	x1
	Conector da ventoinha do sistema	x1	Conector da ventoinha do sistema	x1
	Conector para detecção da abertura do chassis (opcional)	x1	Conector para detecção da abertura do chassis (opcional)	x1
	Conector para limpeza do CMOS	x1	Conector para limpeza do CMOS	x1
	Conector USB	x2	Conector USB	x2
	Conector de alimentação (24 pinos)	x1	Conector de alimentação (24 pinos)	x1
Conector de alimentação (4 pinos)	x1	Conector de alimentação (4 pinos)	x1	
Entradas/Saídas no painel traseiro	Teclado PS/2	x1	Teclado PS/2	x1
	Rato PS/2	x1	Rato PS/2	x1
	Porta série	x1	Porta série	x1
	Porta VGA	x1	Porta VGA	x1
	Porta LAN	x1	Porta LAN	x1
	Porta USB	x4	Porta USB	x4
	Tomada de áudio	x3	Tomada de áudio	x3
Tamanho da placa	220 mm (L) X 235 mm (A)		220 mm (L) X 235 mm (A)	
Sistemas operativos suportados	Windows 2000 / XP A Biostar reserva-se o direito de adicionar ou remover suporte para qualquer sistema operativo com ou sem aviso prévio.		Windows 2000 / XP A Biostar reserva-se o direito de adicionar ou remover suporte para qualquer sistema operativo com ou sem aviso prévio.	

POLISH

	945G Micro 775SE	945GZ Micro 775
Procesor	LGA 775 Procesor Intel Core2Duo / Pentium 4 / Pentium D / Celeron D do 3,4 GHz Obsługa Hyper-Threading Execute Disable Bit Enhanced Intel SpeedStep® Extended Memory 64 Technology	LGA 775 Procesor Intel Core2Duo / Pentium 4 / Pentium D / Celeron D do 3,4 GHz Obsługa Hyper-Threading Execute Disable Bit Enhanced Intel SpeedStep® Extended Memory 64 Technology
FSB	533 / 800 / 1066 MHz	533 / 800 MHz
Chipset	Intel 945G Intel ICH7	Intel 945GZ Intel ICH7
Grafika	Intel GMA 950	Intel GMA 950
Pamięć główna	Gniazda DDR2 DIMM x 2 Każde gniazdo DIMM obsługuje moduły 256/512MB oraz 1GB DDR2 Maks. wielkość pamięci 2GB Moduł pamięci DDR2 z trybem podwójnego kanału Obsługa DDR2 400 / 533 / 667	Gniazda DDR2 DIMM x 2 Każde gniazdo DIMM obsługuje moduły 256/512MB oraz 1GB DDR2 Maks. wielkość pamięci 2GB Moduł pamięci DDR2 z trybem podwójnego kanału Obsługa DDR2 400 / 533
Super I/O	ITE 8712F Monitor H/W Kontroler prędkości wentylatora Funkcja ITE "Smart Guardian"	ITE 8712F Monitor H/W Kontroler prędkości wentylatora Funkcja ITE "Smart Guardian"
IDE	Zintegrowany kontroler IDE Ultra DMA 33 / 66 / 100 Tryb Bus Master obsługa PIO tryb 0~4	Zintegrowany kontroler IDE Ultra DMA 33 / 66 / 100 Tryb Bus Master obsługa PIO tryb 0~4
SATA	Zintegrowany kontroler Serial ATA Transfer danych do 3 Gb/s. Zgodność ze specyfikacją SATA w wersji 2.0.	Zintegrowany kontroler Serial ATA Transfer danych do 3 Gb/s. Zgodność ze specyfikacją SATA w wersji 2.0.
LAN	Realtek 8100C 10 / 100 Mb/s z automatyczną negocjacją szybkości Działanie w trybie połowicznego / pełnego duplexu	Realtek 8100C 10 / 100 Mb/s z automatyczną negocjacją szybkości Działanie w trybie połowicznego / pełnego duplexu
Kodek dźwiękowy	ALC 655 6 kanałowe wyjście audio AC'97 w wersji 2.3	ALC 655 6 kanałowe wyjście audio AC'97 w wersji 2.3

945G Micro 775SE & 945GZ Micro 775

		945G Micro 775SE	945GZ Micro 775
Gniazda	Gniazdo PCI Express x16	x1	Gniazdo PCI Express x16 x1
	Gniazdo PCI Express x1	x1	
	Gniazdo PCI	x2	Gniazdo PCI x3
Złącza wbudowane	Złącze napędu dyskietek	x1	Złącze napędu dyskietek x1
	Złącze IDE	x1	Złącze IDE x1
	Złącze Port drukarki	x1	Złącze Port drukarki x1
	Złącze SATA	x4	Złącze SATA x4
	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 systemowego	x1	Złącze główkowe wentylatora systemowego x1
	Złącze główkowe otwarcia obudowy (opcja)	x1	Złącze główkowe otwarcia obudowy (opcja) x1
	Złącze główkowe kasowania CMOS	x1	Złącze główkowe kasowania CMOS x1
	Złącze USB	x2	Złącze USB x2
	Złącze zasilania (24 pinowe)	x1	Złącze zasilania (24 pinowe) x1
Złącze zasilania (4 pinowe)	x1	Złącze zasilania (4 pinowe) x1	
Back Panel 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 VGA	x1	Port VGA x1
	Port LAN	x1	Port LAN x1
	Port USB	x4	Port USB x4
	Gniazdo audio	x3	Gniazdo audio x3
Wymiary płyty	220 mm (S) X 235 mm (W)		220 mm (S) X 235 mm (W)
Obsługa systemu operacyjnego	Windows 2000 / XP Biostar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.		Windows 2000 / XP Biostar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.

RUSSIAN

	945G Micro 775SE	945GZ Micro 775
CPU (центральный процессор)	LGA 775 Процессор Intel Core2Duo / Pentium 4 / Pentium D / Celeron D до 3.8 ГГц Поддержка технологий Hyper-Threading Execute Disable Bit Enhanced Intel SpeedStep® Extended Memory 64 Technology	LGA 775 Процессор Intel Core2Duo / Pentium 4 / Pentium D / Celeron D до 3.8 ГГц Поддержка технологий Hyper-Threading Execute Disable Bit Enhanced Intel SpeedStep® Extended Memory 64 Technology
FSB	533 / 800 / 1066 МГц	533 / 800 МГц
Набор микросхем	Intel 945G Intel ICH7	Intel 945GZ Intel ICH7
Графика	Intel GMA 950	Intel GMA 950
Основная память	Слоты DDR2 DIMM x 2 Каждый модуль DIMM поддерживает 256/512МБ & 1ГБ DDR2 Максимальная ёмкость памяти 2 ГБ Модуль памяти с двухканальным режимом DDR2 Поддержка DDR2 400 / 533 / 667	Слоты DDR2 DIMM x 2 Каждый модуль DIMM поддерживает 256/512МБ & 1ГБ DDR2 Максимальная ёмкость памяти 2 ГБ Модуль памяти с двухканальным режимом DDR2 Поддержка DDR2 400 / 533
Super I/O	ITE 8712F Аппаратный монитор Регулятор скорости Функция ITE "Smart Guardian" (Интеллектуальная защита)	ITE 8712F Аппаратный монитор Регулятор скорости Функция ITE "Smart Guardian" (Интеллектуальная защита)
IDE	Встроенное устройство управления встроенными интерфейсами устройств Режим "хозяина" шины Ultra DMA 33 / 66 / 100 Поддержка режима PIO 0~4,	Встроенное устройство управления встроенными интерфейсами устройств Режим "хозяина" шины Ultra DMA 33 / 66 / 100 Поддержка режима PIO 0~4,
SATA	Встроенное последовательное устройство управления ATA скорость передачи данных до 3 гигабит/с. Соответствие спецификации SATA версия 2.0.	Встроенное последовательное устройство управления ATA скорость передачи данных до 3 гигабит/с. Соответствие спецификации SATA версия 2.0.
Локальная сеть	Realtek 8100C Автоматическое согласование 10 / 100 Мб/с Частичная / полная дуплексная способность	Realtek 8100C Автоматическое согласование 10 / 100 Мб/с Частичная / полная дуплексная способность
Звуковой кодек	ALC 655 Шестиканальный звуковой выход AC'97 Версия 2.3	ALC 655 Шестиканальный звуковой выход AC'97 Версия 2.3

945G Micro 775SE & 945GZ Micro 775

945G Micro 775SE		945GZ Micro 775		
Слоты	Слот PCI Express x16	x1	Слот PCI Express x16	x1
	Слот PCI Express x1	x1		
	Слот PCI	x2	Слот PCI	x3
Встроенны й разъём	Разъём НГМД	x1	Разъём НГМД	x1
	Разъём IDE	x1	Разъём IDE	x1
	Разъём Порт подключения принтера	x1	Разъём Порт подключения принтера	x1
	Разъём SATA	x4	Разъём SATA	x4
	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
	Шасси открытого контактирующего приспособления (дополнительно)	x1	Шасси открытого контактирующего приспособления (дополнительно)	x1
	Открытое контактирующее приспособление CMOS	x1	Открытое контактирующее приспособление CMOS	x1
	USB-разъём	x2	USB-разъём	x2
Разъём питания (24 вывод)	x1	Разъём питания (24 вывод)	x1	
Разъём питания (4 вывод)	x1	Разъём питания (4 вывод)	x1	
Задняя панель средств ввода-выв ода	Клавиатура PS/2	x1	Клавиатура PS/2	x1
	Мышь PS/2	x1	Мышь PS/2	x1
	Последовательный порт	x1	Последовательный порт	x1
	Порт VGA	x1	Порт VGA	x1
	Порт LAN	x1	Порт LAN	x1
	USB-порт	x4	USB-порт	x4
Размер панели	220 мм (Ш) X 235 мм (В)		220 мм (Ш) X 235 мм (В)	
	Windows 2000 / XP		Windows 2000 / XP	
Поддержка OS	Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления.		Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления.	

ARABIC

945GZ Micro 775	945G Micro 775SE	
LGA 775 Intel Core2Duo / Pentium 4 / Pentium D / Celeron D يتردد يصل إلى 3.8 جيجا هرتز Hyper-Threading تدعم تقنيات Execute Disable Bit Enhanced Intel SpeedStep® Extended Memory 64 Technology	LGA 775 Intel Core2Duo / Pentium 4 / Pentium D / Celeron D يتردد يصل إلى 3.8 جيجا هرتز Hyper-Threading تدعم تقنيات Execute Disable Bit Enhanced Intel SpeedStep® Extended Memory 64 Technology	وحدة المعالجة المركزية
ميجا هرتز 533 / 800 تردد	ميجا هرتز 533 / 800 / 1066 تردد	النقل الأممي الجانبي
Intel 945GZ Intel ICH7	Intel 945G Intel ICH7	مجموعة الشرائح
Intel GMA 950	Intel GMA 950	بطاقة الرسومات
2 عدد DDR2 DIMM فتحة ميجا 256/512 سعة DDR2 تدعم ذاكرة من نوع DIMM تدعم كل فتحة بايت و 1 جيجا بايت سعة ذاكرة قصوى 2 جيجا بايت أحادية مزدوجة الفتحة DDR2 وحدة ذاكرة ميجا بايت 400 / 533 سعت DDR2 تدعم الذاكرة من نوع	2 عدد DDR2 DIMM فتحة ميجا 256/512 سعة DDR2 تدعم ذاكرة من نوع DIMM تدعم كل فتحة بايت و 1 جيجا بايت سعة ذاكرة قصوى 2 جيجا بايت أحادية مزدوجة الفتحة DDR2 وحدة ذاكرة ميجا بايت 400 / 533 / 667 سعت DDR2 تدعم الذاكرة من نوع	الذاكرة الرئيسية
ITE 8712F مرقب لمعرفة حلة الأجزاء مرقب في سرعة المروحة ITE من "Smart Guardian" وظيفة	ITE 8712F مرقب لمعرفة حلة الأجزاء مرقب في سرعة المروحة ITE من "Smart Guardian" وظيفة	Super I/O
متكامل IDE متحكم Ultra DMA 33 / 66 / 100 النقل بتقنية وضع رئيسي PIO Mode 0~4 دعم وضع	متكامل IDE متحكم Ultra DMA 33 / 66 / 100 النقل بتقنية وضع رئيسي PIO Mode 0~4 دعم وضع	منفذ IDE
متكامل Serial ATA متحكم نقل البيانات بسرعة تصل إلى 3 جيجابت/ثانية. 2.0 الإصدار SATA مطابقة لمواصفات	متكامل Serial ATA متحكم نقل البيانات بسرعة تصل إلى 3 جيجابت/ثانية. 2.0 الإصدار SATA مطابقة لمواصفات	SATA
Realtek 8100C تقويض تلقائي 100/10 ميجا بايت / ثانية إمكانية النقل المزدوج الكامل/النصفي	Realtek 8100C تقويض تلقائي 100/10 ميجا بايت / ثانية إمكانية النقل المزدوج الكامل/النصفي	شبكة داخلية 100/10
ALC655 قوات لخرج الصوت 6 AC'97 من 2.3 الإصدار	ALC655 قوات لخرج الصوت 6 AC'97 من 2.3 الإصدار	كوديك الصوت
عدد 1 فتحة PCI Express x16	عدد 1 فتحة PCI Express x16	الفتحات
عدد 3 فتحة PCI	عدد 2 فتحة PCI	

945G Micro 775SE & 945GZ Micro 775

945GZ Micro 775		945G Micro 775SE			
عدد 1	منفذ محرك أقراص مرنة	عدد 1	منفذ محرك أقراص مرنة	المنفذ على سطح اللوحة	
عدد 1	منفذ IDE	عدد 1	منفذ IDE		
عدد 1	منفذ طباعة	عدد 1	منفذ طباعة		
عدد 4	منفذ SATA	عدد 4	منفذ SATA		
عدد 1	منفذ اللوحة الأمامية	عدد 1	منفذ اللوحة الأمامية		
عدد 1	منفذ الصوت الأمامي	عدد 1	منفذ الصوت الأمامي		
عدد 1	منفذ CD-IN	عدد 1	منفذ CD-IN		
عدد 1	منفذ دخل S/PDIF (اختياري)	عدد 1	منفذ دخل S/PDIF (اختياري)		
عدد 1	منفذ خرج S/PDIF	عدد 1	منفذ خرج S/PDIF		
عدد 1	وصلة مروحة وحدة المعالجة المركزية	عدد 1	وصلة مروحة وحدة المعالجة المركزية		
عدد 1	وصلة مروحة النظام	عدد 1	وصلة مروحة النظام		
عدد 1	وصلة قتح البيكل (اختياري)	عدد 1	وصلة قتح البيكل (اختياري)		
عدد 1	وصلة مسح CMOS	عدد 1	وصلة مسح CMOS		
عدد 2	منفذ USB	عدد 2	منفذ USB		
عدد 1	منفذ توصيل الطاقة (24 دبوس)	عدد 1	منفذ توصيل الطاقة (24 دبوس)		
عدد 1	منفذ توصيل الطاقة (4 دبوس)	عدد 1	منفذ توصيل الطاقة (4 دبوس)		
عدد 1	لوحة مفاتيح PS/2	عدد 1	لوحة مفاتيح PS/2		منفذ دخل/خرج اللوحة الخلفية
عدد 1	مولد PS/2	عدد 1	مولد PS/2		
عدد 1	منفذ تسلسلي	عدد 1	منفذ تسلسلي		
عدد 1	منفذ VGA	عدد 1	منفذ VGA		
عدد 1	منفذ شبكة اتصال محلية	عدد 1	منفذ شبكة اتصال محلية		
عدد 4	منافذ USB	عدد 4	منافذ USB		
عدد 3	مقيس صوت	عدد 3	مقيس صوت		
220 مم (عرض) X 235 مم (ارتفاع)		220 مم (عرض) X 235 مم (ارتفاع)		حجم اللوحة	
Windows 2000 / XP بحفظها في إضافة أو إزالة الدعم لأي نظام تشغيل بإخطار أو Biostar: احتفظ بيون إخطار.		Windows 2000 / XP بحفظها في إضافة أو إزالة الدعم لأي نظام تشغيل بإخطار أو Biostar: احتفظ بيون إخطار.		دعم أنظمة التشغيل	

JAPANESE

	945G Micro 775SE	945GZ Micro 775
CPU	LGA 775 Intel Core2Duo / Pentium 4 / Pentium D / Celeron D processor up to 3.8 GHz Hyper-Threading Execute Disable Bit Enhanced Intel SpeedStep® Extended Memory 64 Technology	LGA 775 Intel Core2Duo / Pentium 4 / Pentium D / Celeron D processor up to 3.8 GHz Hyper-Threading Execute Disable Bit Enhanced Intel SpeedStep® Extended Memory 64 Technology
FSB	533 / 800 / 1066 MHz	533 / 800 MHz
チップセット	Intel 945G Intel ICH7	Intel 945GZ Intel ICH7
グラフィックス	Intel GMA 950	Intel GMA 950
メインメモリ	DDR2 DIMMスロット x 2 各DIMMは256/512MB & 1GB DDR2をサポート 最大メモリ容量2GB デュアルチャンネルモードDDR2メモリモジュール DDR2 400 / 533 / 667 をサポート	DDR2 DIMMスロット x 2 各DIMMは256/512MB & 1GB DDR2をサポート 最大メモリ容量2GB デュアルチャンネルモードDDR2メモリモジュール DDR2 400 / 533 をサポート
Super I/O	ITE 8712F H/Wモニター ファン速度コントローラ/ モニター ITEの「スマートガーディアン」機能	ITE 8712F H/Wモニター ファン速度コントローラ/ モニター ITEの「スマートガーディアン」機能
IDE	統合IDEコントローラ Ultra DMA 33 / 66 / 100バスマスタモード PIO Mode 0~4のサポート	統合IDEコントローラ Ultra DMA 33 / 66 / 100バスマスタモード PIO Mode 0~4のサポート
SATA	統合シリアルATAコントローラ 最高3 Gb/秒のデータ転送速度 SATAバージョン2.0仕様に準拠。	統合シリアルATAコントローラ 最高3 Gb/秒のデータ転送速度 SATAバージョン2.0仕様に準拠。
10/100 LAN	Realtek 8100C 10 / 100 Mb/sオートネゴシエーション 半/全二重機能	Realtek 8100C 10 / 100 Mb/sオートネゴシエーション 半/全二重機能
サウンド Codec	ALC 655 6チャンネルオーディオアウト AC'97バージョン2.3	ALC 655 6チャンネルオーディオアウト AC'97バージョン2.3

945G Micro 775SE & 945GZ Micro 775

945G Micro 775SE		945GZ Micro 775		
スロット	PCI Express x16スロット	x1	PCI Express x16スロット	x1
	PCI Express x1スロット	x1		
	PCIスロット	x2	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	x1	IDEコネクタ	x1
	プリンタポートコネクタ	x1	プリンタポートコネクタ	x1
	SATAコネクタ	x4	SATAコネクタ	x4
	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
	シャーシオープンヘッダ(オプション)	x1	シャーシオープンヘッダ(オプション)	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(24ピン)	x1	電源コネクタ(24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
	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	220 mm (幅) X 235 mm (高さ)		220 mm (幅) X 235 mm (高さ)	
OSサポート	Windows 2000 / XP Biostar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 Biostar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。	

2006/07/13

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BIOS Setup

Introduction

The purpose of this manual is to describe the settings in the Award™ BIOS Setup program on this motherboard. The Setup program allows users to modify the basic system configuration and save these settings to CMOS RAM. The power of CMOS RAM is supplied by a battery so that it retains the Setup information when the power is turned off.

Basic Input-Output System (BIOS) determines what a computer can do without accessing programs from a disk. This system controls most of the input and output devices such as keyboard, mouse, serial ports and disk drives. BIOS activates at the first stage of the booting process, loading and executing the operating system. Some additional features, such as virus and password protection or chipset fine-tuning options are also included in BIOS.

The rest of this manual will to guide you through the options and settings in BIOS Setup.

Plug and Play Support

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

EPA Green PC Support

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

APM Support

This 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. Power to the hard disk drives and video monitors can also be managed by this AWARD BIOS.

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.

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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 SDRAM (Double Data Rate Synchronous DRAM) is supported.

Supported CPUs

This AWARD BIOS supports the Intel CPU.

Using Setup

Use the arrow keys to highlight items in most of the place, 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 Status Page Setup Menu and Option Page Setup Menu – Exit 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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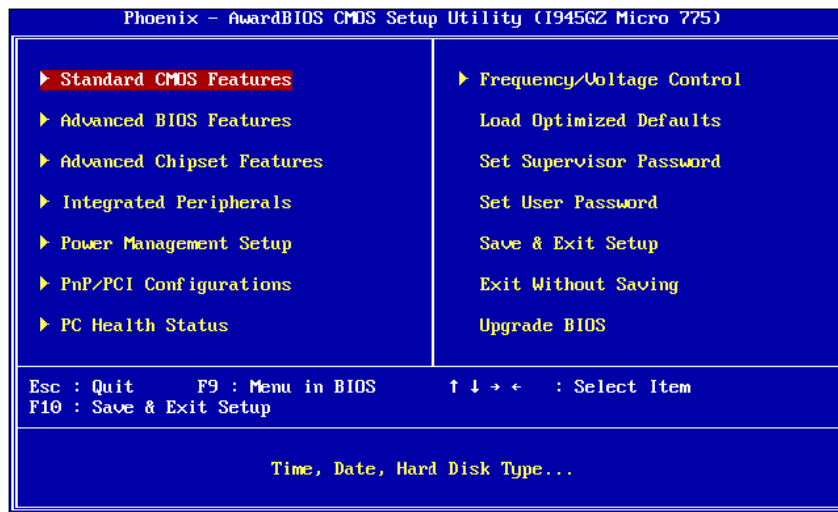
1 Main Menu

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.

Figure 1: Main Menu

!! WARNING !!

For better system performance, the BIOS firmware is being continuously updated. The BIOS information described in this manual (**Figure 1, 2, 3, 4, 5, 6, 7, 8, 9**) is for your reference only. The actual BIOS information and settings on board may be slightly different from this manual.



Standard CMOS Features

This submenu contains industry standard configurable options.

Advanced BIOS Features

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

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Advanced Chipset Features

This submenu allows you to configure special chipset features.

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/ Voltage Control

This submenu allows you to change CPU Vcore Voltage and CPU/PCI clock. (However, we suggest you to use the default setting. Changing the voltage and clock improperly may damage the CPU or M/B!)

Load Optimized Defaults

This selection allows you to reload the BIOS when problem occurs during system booting 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

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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:

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

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Upgrade BIOS

This submenu allows you to upgrade bios.

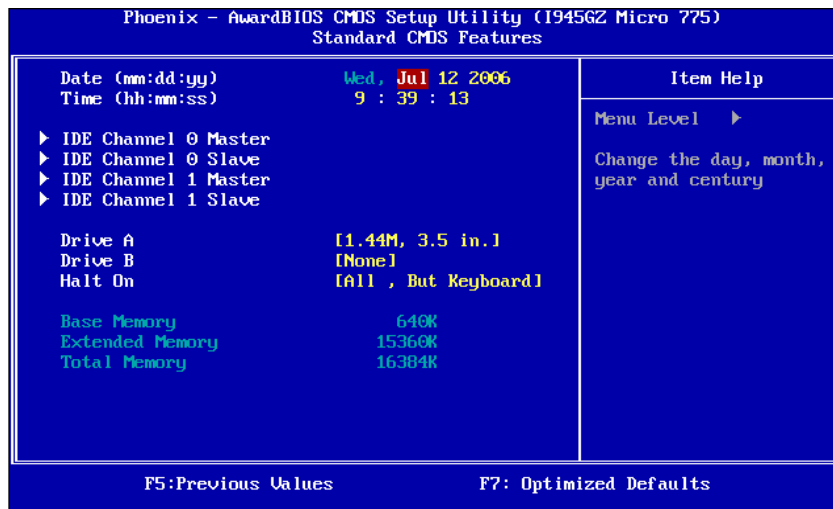
BIOS UPDATE UTILITY (Y/N)? N

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2 Standard CMOS Features

The items in Standard CMOS Setup Menu are divided into several 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**



Main Menu Selections

This table shows the items and the available options 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.

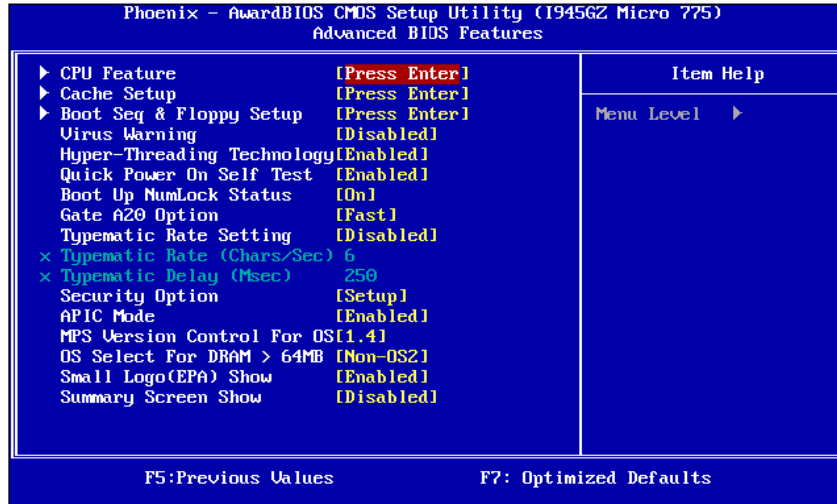
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Item	Options	Description
IDE Secondary Master	Options are in its sub menu.	Press <Enter> to enter the sub menu of detailed options.
IDE Secondary Slave	Options are in its sub menu.	Press <Enter> to enter the sub menu of detailed options.
Drive A Drive B	360K, 5.25 in 1.2M, 5.25 in 720K, 3.5 in 1.44M, 3.5 in 2.88M, 3.5 in None	Select the type of floppy disk drive installed in your system.
Video	EGA/VGA CGA 40 CGA 80 MONO	Select the default video device.
Halt On	All Errors No Errors All, but Keyboard All, but Diskette 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.

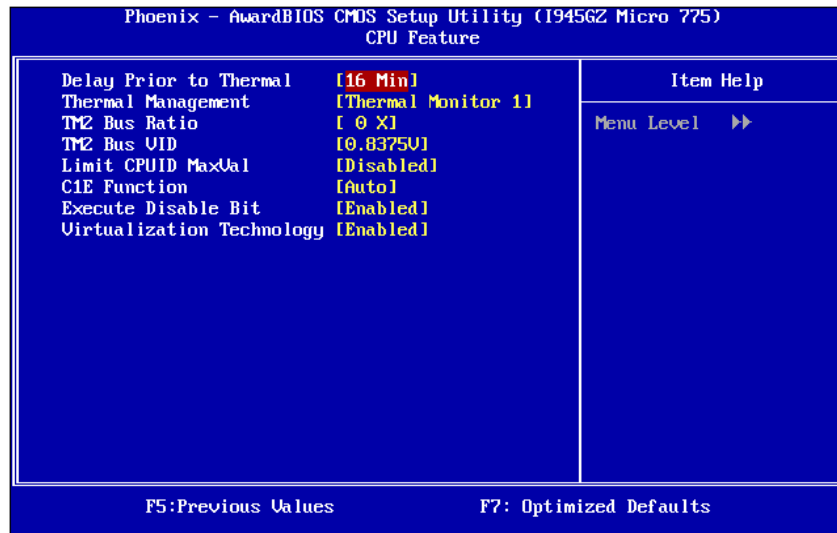
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3 Advanced BIOS Features

■ Figure 3: Advanced BIOS Setup



CPU Feature



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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

This option allows you to select the way to control the “Thermal Management.”

The Choices: **Thermal Monitor 1** (default), Thermal Monitor 2.

TM2 Bus Ratio

This option represents the frequency (bus ratio) of the throttled performance state that will be initiated when the on-die sensor detects temperature increase.

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

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

TM2 Bus VID

This option represents the voltage of the throttled performance state that will be initiated when the on-die sensor detects temperature increase.

The Choices: **0.8375V** (default), 0.8375-1.6000.

Limit CPUID MaxVal

Set Limit CPUID MaxVal to 3, it should be “Disabled” for Windows XP.

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.

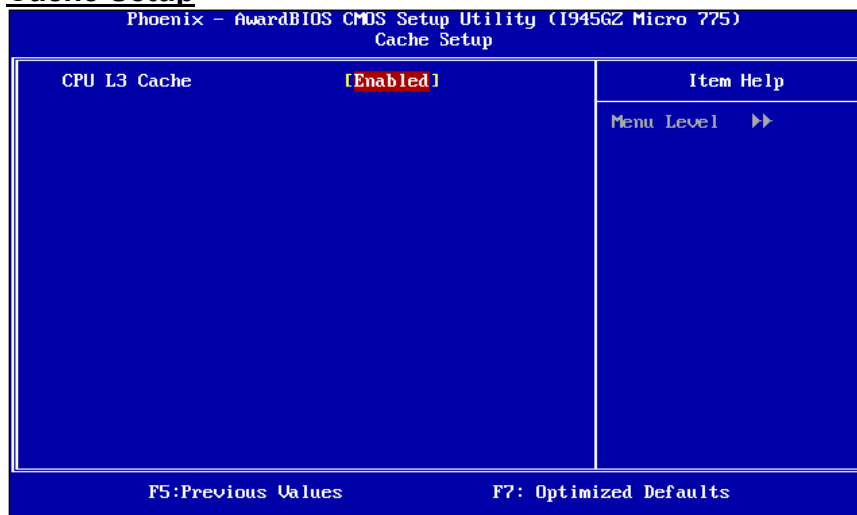
Virtualization Technology

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.

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Cache Setup



CPU L3 Cache

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

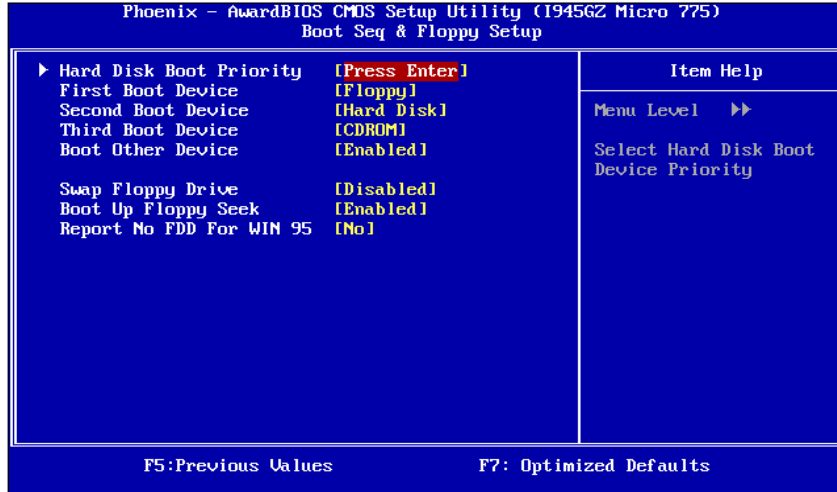
Enabled (default) Enable cache.

Disabled Disable cache.

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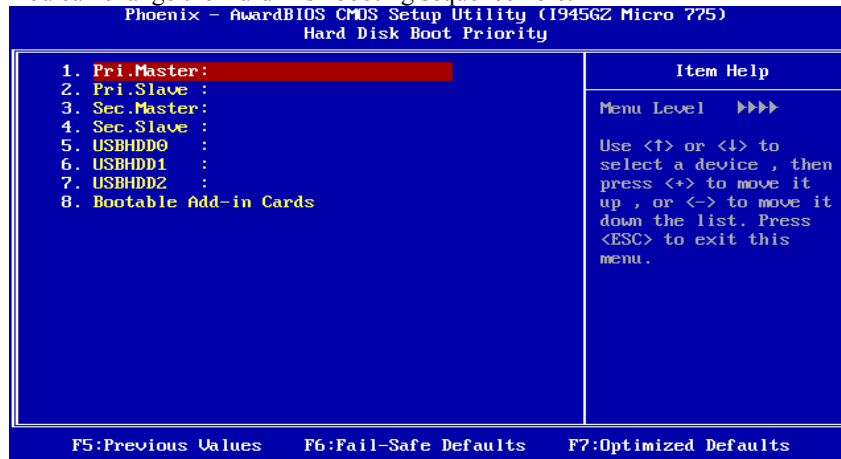
Boot Seq & Floppy Setup

This item allows you to setup boot sequence & Floppy.



Hard Disk Boot Priority

The BIOS will attempt to arrange the Hard Disk boot sequence automatically. You can change the Hard Disk booting sequence here.



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 Device

The BIOS will attempt to load the operating system in this order.

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

Boot Other Device

When enabled, BIOS will try to load the operating system from other device when it failed to load from the three devices above.

The Choices: Enabled (default), Disabled

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

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

The Choices: Enabled (default), Disabled.

Report NO FDD for Win95

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

The Choices: NO (default), Yes.

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.

Disabled (default) Virus protection is disabled.

Enabled Virus protection is activated.

Hyper-Threading Technology

This option allows you to enable or disabled Hyper-Threading Technology. “Enabled” for Windows XP and Linux 2.4.x (OS optimized for Hyper-Threading Technology). “Disable” for other OS (OS not optimized for Hyper-Threading Technology).

The Choices: Enabled (default), Disabled.

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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 the system switched on.

The Choices:

On (default) Numpad is number keys.
Off Numpad is arrow keys.

Gate A20 Option

Select if chipset or keyboard controller should control Gate A20.

Normal A pin in the keyboard controller controls GateA20.

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.

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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.

Small Logo(EPA) Show

This item allows you to select whether the “Small Logo” shows. Enabled (default) “Small Logo” shows when system boots up. Disabled No “Small Logo” shows when system boots

The Choices: Enabled (default), Disabled

Summary Screen Show

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

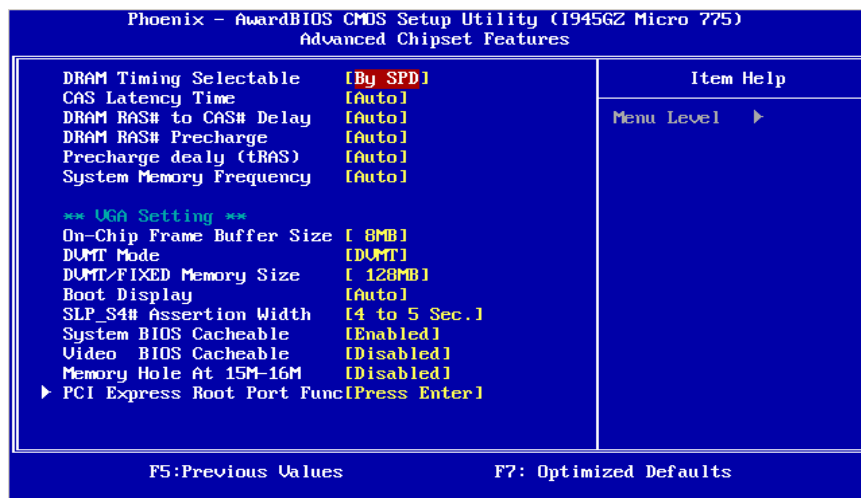
The Choices: Disabled (default), Enabled.

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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. This item allows you to choose between auto and manual adjusting 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: Auto (default), 5, 4, 3, 6.

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DRAM RAS# to CAS# Delay

This field allows you to insert a timing delay between the CAS and RAS strobe signals, used when DRAM is written to, read from, or refreshed. Low value will provide a faster performance; and high value made the system more stable. This field applies only when synchronous DRAM is installed in the system.

The Choices: Auto (default), 2, 3, 4, 5, 6.

DRAM RAS# Precharge

If an insufficient number of cycles are allowed for RAS to accumulate its charge before DRAM refresh, the refresh may be incomplete, and the DRAM may fail to retain data. Low value will provide faster performance; and high value made the system more stable. This field applies only when synchronous DRAM is installed in the system.

The Choices: Auto (default), 2, 3, 4, 5, 6.

Precharge dealy (tRAS)

This item allows you to specify the minimum row active time (tRAS).

The Choices: Auto (default), 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15.

System Memory Frequency

This item allows you to select the Memory Frequency.

The Choices: Auto (default), 400MHz, 533MHz, and 667MHz.

On-Chip Frame Buffer Size

This item will be different as your memory modules. When the memory size is decided, this frame buffer size will also be fixed.

The Choices: 8MB (default), 1MB.

UVMT Mode

This item allows you to select the UVMT mode.

The Choice: DVMT (default), FIXED, BOTH.

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DVMT Memory Size

DVMT stands for „Dynamic Video Memory Technology“. This is an enhancement of the unified memory architecture (UMA) concept. DVMT will set the optimum amount of memory to be allocated for a balance between graphics and system performance. DVMT dynamically respond to system requirements and applications demands, by allocating the proper amount of display, texturing and buffer memory after the operating system has booted.

The Choices: 64MB, **128MB** (default).

FIXED Memory Size

Fixed is a memory allocation method addition to the Unified Memory Architecture (UMA) concept, where a static amount of page-locked graphics memory is allocated during driver initialization. It will provide the total amount of graphics memory available to the system and is intended to provide the user with a guaranteed amount of graphics memory at all times.

The Choices: 64MB, **128MB** (default).

Boot Display

This item allows you to choose the display device on booting.

The Choices: **Auto** (default), CRT, TV, EFP.

System BIOS Cacheable

Selecting the “Enabled” option allows caching of the system BIOS ROM at F0000h-FFFFFh, which is able to improve the system performance. However, any programs that attempts to write to this memory block will cause conflicts and result in system errors.

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

Video BIOS Cacheable

Select Enabled allows caching of the video BIOS, which will result in a better system performance. However, if any program attempts to write to this memory area, a system error may result.

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

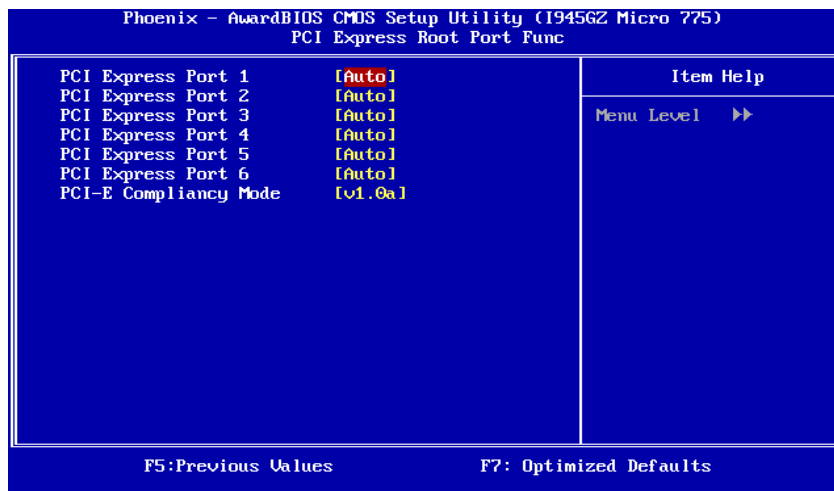
945GZ Micro 775

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. Check the user information of peripherals that need to use this area of system memory for the memory requirements.

The Choices: Disabled (default), Enabled.

PCI Express Root Port Func



PCI Express Port 1/2/3/4/5/6

This item allows you to select the PCI Express Port.

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

PCI-E Compliancy Mode

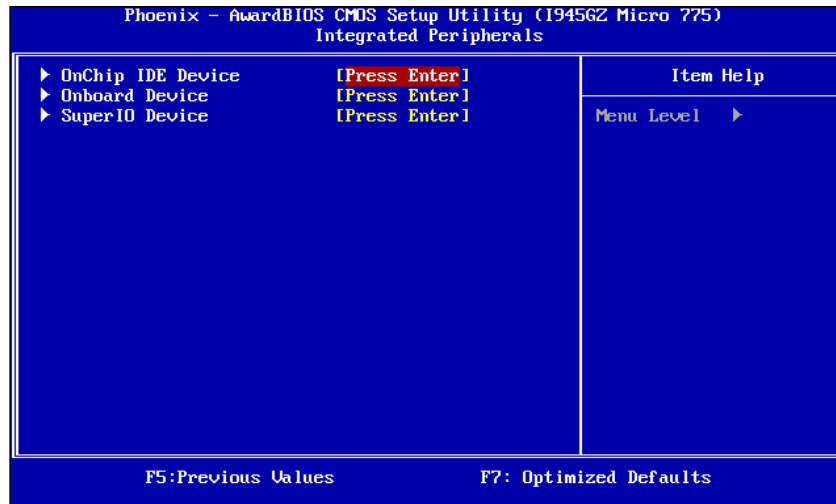
This item allows you to select the PCI-E Compliancy Mode.

The Choices: v1.0a (default), v1.0.

945GZ Micro 775

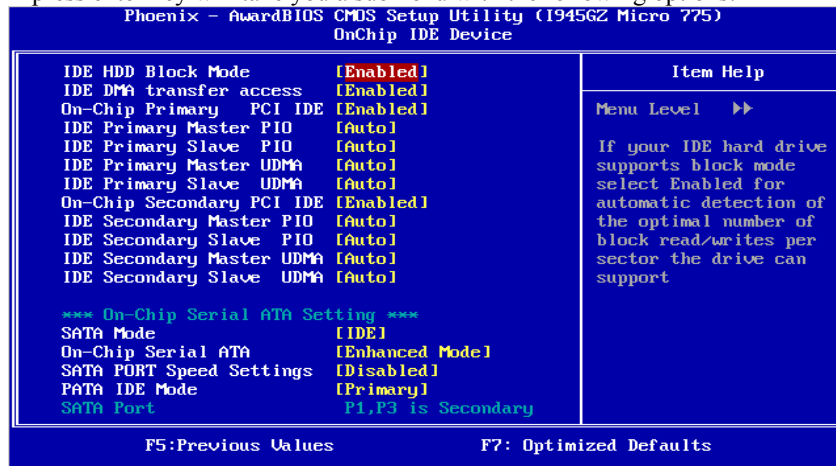
5 Integrated Peripherals

■ Figure 5. Integrated Peripherals



Onchip IDE Device

Highlight the “Press Enter” label next to the “Onchip IDE Device” label and press enter key will take you a submenu with the following options:



945GZ Micro 775

IDE HDD Block Mode

Block mode is also called block transfer, multiple commands, or multiple sectors 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 DMA transfer access.

The Choices: Enabled (default), Disabled.

On-chip Primary PCI IDE

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

The Choices: Enabled (default), Disabled.

IDE 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 increase performance progressively. In Auto mode, the system automatically determines the best mode for each device.

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

On-chip Secondary PCI IDE

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

The Choices: Enabled (Default), Disabled.

IDE Primary/Secondary/Master/Slave UDMA

Ultra DMA function 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 or OSR2 may need a third party IDE bus master driver). If your hard drive and your system software both support Ultra DMA, select Auto to enable BIOS support.

The Choices: Auto (default), Disabled.

SATA Mode

This item allows you to select SATA Mode.

The Choices: IDE (default), RAID, AHCI.

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On-Chip Serial ATA

This item allows you to choose between the options below:

Disabled: disabled SATA Controller

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: Default, Auto, Combined Mode, **Enhanced Mode** (default), and SATA only.

SATA PORT Speed Settings

This item allows you to set SATA PORT Speed.

The Choices: Disabled (default), Force GEM I, Force GEM II.

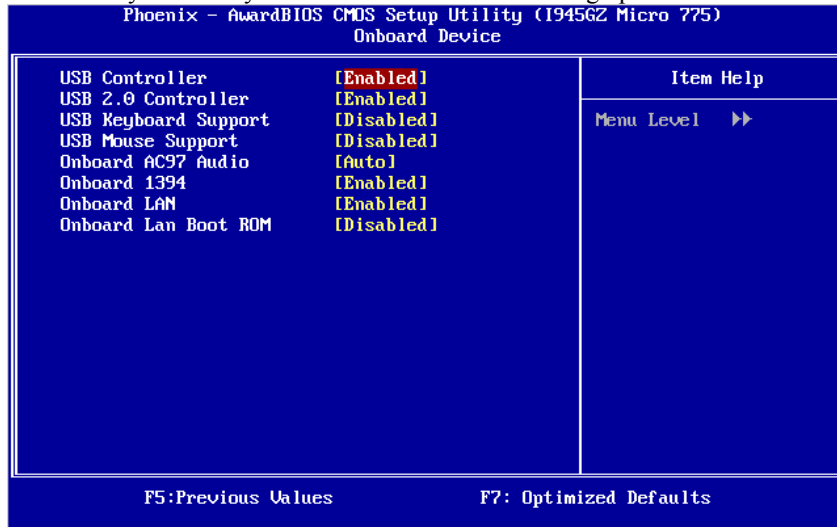
PATA IDE Mode

This item allows you to select PATA IDE Mode.

The Choices: Primary (default), Secondary.

Onboard Device

Highlight the “Press Enter” label next to the “Onboard Device” label and press the enter key will take you a submenu with the following options:



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USB Controller

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

The Choices: Enabled (default), Disabled

USB 2.0 Controller

This entry is to enabled/ disabled EHCI controller.

The Choices: Enabled (default), Disabled.

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.

Onboard AC97 Audio

This item allows you to enable or disable to support AC97 Audio.

The Choices: Auto (default), Disabled.

Onboard 1394

This item allows you to enable or disable the Onboard 1394.

The Choices: Enabled (default), Disabled.

Onboard LAN

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

The Choices: Enabled (default), Disabled.

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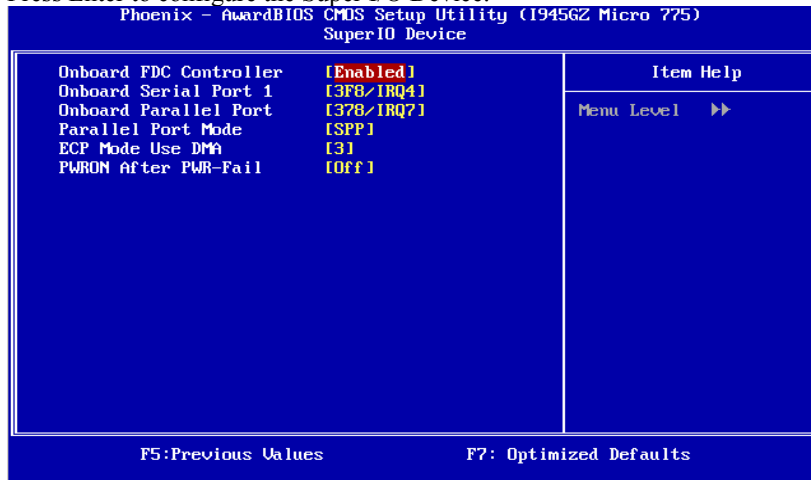
Onboard LAN Boot ROM

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

The Choices: Disabled (default), Enabled.

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 you installed another FDC or the system uses 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, 2F8/IRQ3, 3E8/IRQ4, 2E8/IRQ3, Auto.

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.

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Parallel Port Mode

This item allows you to determine how the parallel port should function. The default value is SPP.

The Choices:

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 PWR-Fail

This setting specifies how your system should behave after a power fail or interrupts occurs. By choosing off will leave the computer in the power off state. Choosing On will reboot the computer. Former-Sts will restore the system to the status before power failure or interrupt occurs.

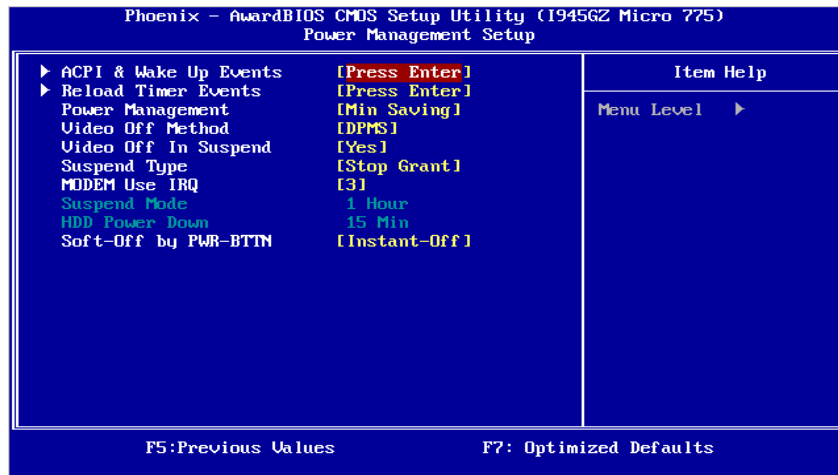
The Choices: Off (default), On, Former-Sts.

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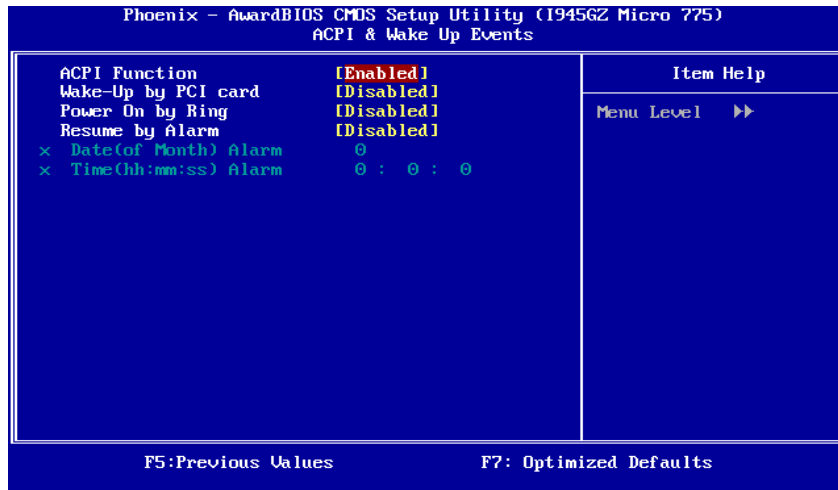
6 Power Management Setup

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 & Wake Up Events



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ACPI Function

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

The Choices: Enabled (default), Disabled.

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, Disabled (default).

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, Disabled (default).

Resume by Alarm

This function is for setting date and time for your computer to boot up. When enabled, you can choose the date and time of system resume.

The Choices: Disabled (default), Enabled.

Date (of Month) Alarm

You can choose which month the system will boot up.

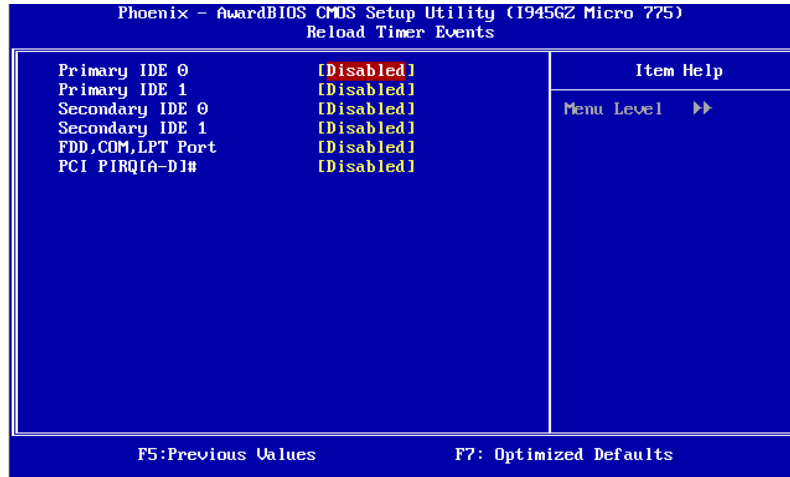
Time (hh:mm:ss) Alarm

You can choose the system boot up time, input hour, minute and second to specify.

Note: If you have change the setting, you must let the system boot into operating system, before this function will work.

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Reload Timer Events



Primary/Secondary IDE 0/1

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

The Choices: Disabled (default), Enabled.

FDD, COM, LPT Port

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

The Choices: Disabled (default), Enabled.

PCI PIRQ [A-D]#

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

The Choices: Disabled (default), Enabled.

Power Management

This category allows you to select the power saving method and is directly related to the following modes:

1. HDD Power Down.
2. Suspend Mode.

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

Min. Power Saving

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Minimum power management.

Suspend Mode = 1 hr.

HDD Power Down = 15 min

Max. Power Saving

Maximum power management only available for sl CPU's.

Suspend Mode = 1 min.

HDD Power Down = 1 min.

User Define (default)

Allow you to set each option individually.

When you choose user define, you can adjust each of the item from 1 min. to 1 hr. except for HDD Power Down which ranges from 1 min. to 15 min.

Video Off Method

This option determines the manner when the monitor 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 item determines the monitor status when the system is in Suspend mode.

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

The item allows you to adjust the system idle time before suspend.

The Choices: Disabled, 1 Min, 2 Min, 4 Min, 6 Min, 8 Min, 10 Min, 20 Min, 30 Min, 40 Min, 1 Hour (default).

HDD Power Down

When enabled, the hard-disk drives will power down after a set time of system inactivity. All other devices remain active.

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

Soft-Off by PWR-BTN

This item determines the behavior of system power button. Instant off turn off the power immediately, and Delay 4 Sec. will require you to press and hold the power button for 4 seconds to cut off the system power.

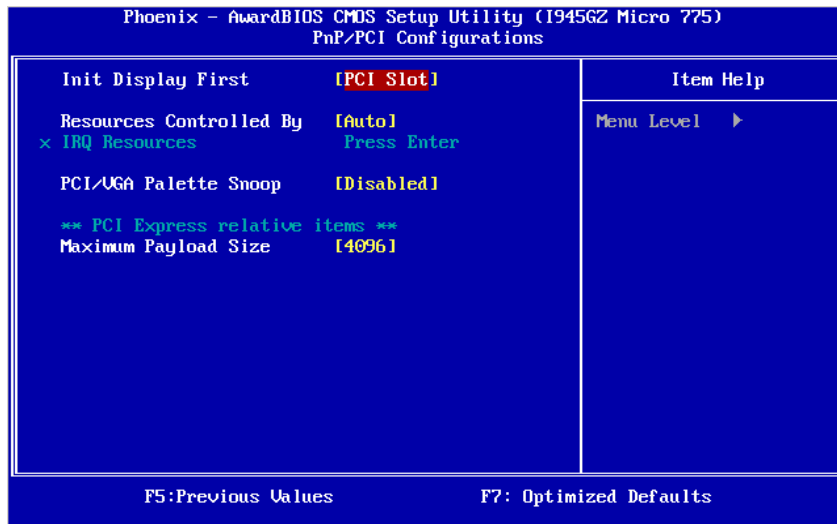
The Choices: Delay 4 Sec, **Instant-Off** (default).

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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



Init Display First

This item allows you to decide to active whether PCI Slot or on-chip VGA first.
The Choices: PCEx, **PCI Slot** (default), Onboard.

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.
The Choices: **Auto (ESCD)** (default), Manual.

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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

Some old graphic controllers need to “snoop” on the VGA palette and then map it to their display as a way to provide boot information and VGA compatibility. This item allows such snooping to take place.

The Choices: Disabled (default), Enabled

Maximum Payload Size

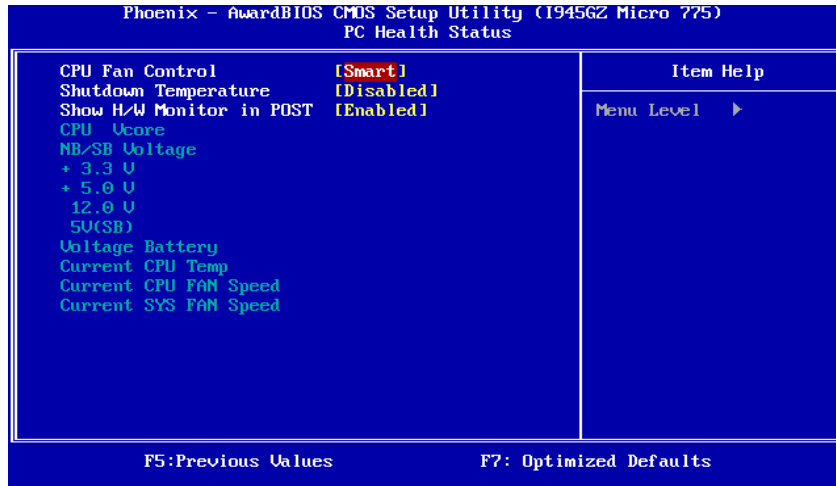
Set the maximum payload size for Transaction packets (TLP).

The Choice: 4096 (default.), 128, 256, 512, 1024, 2048.

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8 PC Health Status

■ Figure 8: PC Health Status



CPU FAN Control

Choose “smart” to reduce the noise caused by CPU FAN.
The Choices: Smart (default), Always On.

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: Disabled (default) , 65°C/ 140°F, 70°C/ 149°F, 75°C/ 158°F.

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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CPU Vcore, NB/SB Voltage, +3.3V, +5.0V, 12.0V, 5V (SB), Voltage Battery

Detect the system's voltage status automatically.

Current CPU Temp

This field displays the current temperature of CPU.

Current CPU FAN Speed

This field displays the current speed of CPU fan.

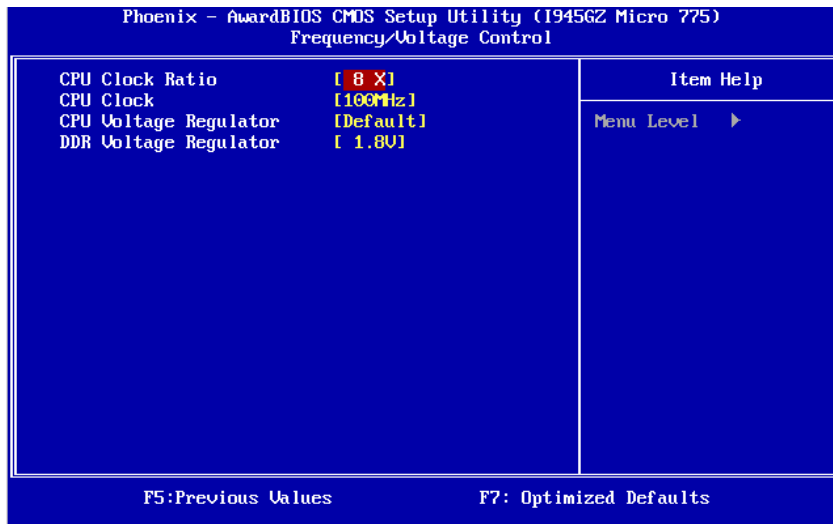
Current SYS FAN Speed

This field displays the current speed SYSTEM fan.

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9 Frequency/ Voltage Control

■ Figure 9: Frequency/ Voltage Control



CPU Clock Ratio

This item allows you to select the CPU Ratio.
Min= 8 Max= 50 Key in a DEC number.
The Choices: 8X (default).

CPU CLOCK

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

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

Method 1:

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

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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.

CPU Voltage Regulator

This item allows you to select CPU Voltage Regulator

The Choices: Default (default), +5%, +15%.

DDR Voltage Regulator

This item allows you to select DDR Voltage Regulator

The Choices: 1.8V (default), 1.9V, 2.0V, 2.1V.