845GV-3ISA Mainboard

User's Manual

Rev: 1.1

ROBY TECHNOLOGY CO., LIMITED https://www.ChinaRoby.com

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# Chapter 1 Package Contents

Your mainboard package contains the following items:

- 1 One mainboard
- 2 One 80-Pin Ultra DMA  $66/100~\mathrm{IDE}$  drive ribbon cable
- 3 One 34-Pin Floppy drive ribbon cable
- 4 Software install CD
- 5 One user's manual
- 6 One I/O Backboard

# Chapter 2 Introduction

This mainboard has the Intel 845 chipset that contains Intel 82845GV Memory Controller Hub and Intel 82801DB I/O Controller Hub. This mainboard has a Socket-478 support for Intel Pentium4 processors with front-side bus (FSB) speeds up to 400/533, supports DDR200/DDR266 memory bus, supports AC97 audio codec , integrated AC97 audio that supports full surround sound with up to Two channels, front panel audio output function, provides Ultra DMA66/100 function, the integrated display function technologies without extend display card , provides Two PCI slots. The mainboard integrated mainboard, VGA card, sound card .

#### Key Features:

```
-Chipset:
```

Intel 845GV chipset GMCH: Intel 82845GV; ICH4: Intel 82801DB

-Processor:

Supports Intel Celeron CPU Socket 478 CPU Supports Intel Pentium4 (Northwood) Socket 478 CPU Supports Intel Pentium4 (Willamette) Socket 478 CPU Supports Intel Pentium4 (Prescott) Socket 478 CPU Supports Intel Celeron D (Prescott) Socket 478 CPU -Supports 400/533MHz HOST BUS Frequency

-Memory Support:

Supports DDR200/DDR266 Memory; Two 184-pin DIMM slots for DDR SDRAM memory modules

-Integrated display function technologies without extend VGA card Integrated 2D/3D Graphics Controller

-USB Ports Six USB ports Supports compliant with Universal Serial Bus Specification Revision 2.0 -IDE Port Provides two channel connecting four IDE drives Supports Ultra ATA66/100 synchronous DMA modes -I/0 Ports One floppy port support format 360K/720K/1.2M/1.44M/2.88M disk driver One serial ports One parallel port maximum four extra ports) One PS/2 Keyboard port One PS/2 Mouse One MIDI port One IrDA port support 115.2KB/S transfers data. -Onboard AC' 97 2.0 specification compliant Support 16bit stereo codec Multiple stereo input mixer Provides onboard Line-in jack, Line-out jack, Microphone-in jack -Expansion Slot Two PCI slots 2.2 specification compliant One AGP 4X Three ISA

-Dimension Micro ATX form factor



# Chapter 4 Installation

# 4.1 Jumper Setting and Slot

# FSB CPU Frequency Jumper Setting

JUPER	AUTO (Default)	400	533
JP1	1-2	2-3	OPEN

# JP3: Clear CMOS Jumper Setting

1-2 (Default)	Normal
2-3	Clear CMOS

# Audio: Front panel Jumper setting

PIN	Function	PIN	Function
1	MIC+	2	Ground
3	Vbias	4	AuD_Vcc(AVCC)
5	AuD_R_Out	6	AuD_R_Out Back
7	N. C.	8	Key
9	AuD_L_Out	10	AuD_L_Out Back

# USB: Expansion Connector

	<b>r</b>		
PIN	Function	PIN	Function
1	VCC: Power	2	VCC: Power
3	D-: Data - Signal	4	D-: Data - Signal
5	D+: Data + Signal	6	D+: Data + Signal
7	GND: Ground	8	GND: Ground
9	КЕҮ	10	NC

# COM2: Expansion Connector

PIN	Function	PIN	Function
1	DCD: data carry detect	2	SIN: Serial In Receive Data
3	SOUT : Serial Outor TRANSMIT Data	4	DTR: Data Terminal Ready
5	GND: Ground	6	DSR: Data Set Ready
7	RTS: Request To Send	8	CTS: Clear To Send
9	RI:Ring Indicate	10	NC

Expansion Slots

DDR1/DDR2	184 Pin DDR Memory Slots
PCI1/PCI2	32 bit PCI BUS Expansion Slots
AGP	AGP Expansion Slots
ISA	ISA Expansion Slots

#### Connectors

PS/2 (Bottom)	PS/2 Keyboard(Down Purple)
PS/2 (Top)	PS/2 Mouse Header(Up Green)
USB1/2	USB1/2 Connector Port
USB3	USB3 Connector Port
LPT	Printer Connector Port
VGA	VGA Display Connector Port
COM1	Serial Ports COM1 Connector Port
MIDI	MIDI Port
LINE OUT/LINE IN/MIC	Audio Output/Audio Input/Microphone
CD_IN	CD-ROM Audio Input Port
IDE1/IDE2	Primary IDE/Secondary IDE Port
FDD	Floppy Disk Drive Connector Port
PW1	ATX_20 Power Supply Connector Port
PW2	ATX_4 Power Supply Connector Port
FAN 1/2	CPU System Fan Port
IrDA	IrDA Infrared Port

# Function Port Panel

Power Supply LED	Pin 1:Power Supply Anode; Pin 3, 5: Ground
HDD LED	Pin 2:Power Supply Anode; Pin 4: LED Signal
ATX Power Supply Switch	Pin 10:Switch Signal; Pin 8: Power Supply
	Anode
Reset Switch	Pin 14:Ground;Pin 16:Reset Signal
Speaker Input	Pin 9:Speaker Audio Input; Pin 15: Power
	Supply Anode

# 4.2 CPU Installation

This mainboard has a socket478 processor socket. Follow these instructions to install the CPU:



- 1. Unhook the CPU socket's locking lever by pulling it away from socket and raising it to the upright position.
- 2. Match the pin 1 corner of CPU socket to the one of processor, and insert the processor into the socket. Do not use force.
- 3. Push the locking lever down and hook it under the latch on the edge of socket.
- 4. Apply thermal grease to the top of the CPU.
- 5. Lower the CPU fan/ heatsink unit onto the CPU and CPU socket, and then use the retention module clamps to snap the fan/heatsink into place.
- 6. Plug the CPU fan power cable into the CPU cooling fan power supply connector on the mainboard.





#### 4.3 Memory installation

This mainboard supports DDR200/DDR266 DDR memory, you may install 64/128/256/512MB 184 pin DDR memory. DDR SDRAM uses additional power and ground lines and requires 184-pin 2.5V unbuffered DIMM module rather than the 168-pin 3.3V unbuffered DIMM used by SDRAM.

Follow these instructions to install the Memory:

1. Push the latches on each side of the DIMM slot down.

- 2. Align the memory module with the slot. The DIMM slots are keyed with notches and the DIMMs are keyed with cutouts so that they can only be installed correctly.
- 3. Check that the cutouts on the DIMM module edge connector match the notches in the DIMM slot.
- 4. Install the DIMM module into the slot and press it firmly down until it seats correctly. The slot latches are levered upwards and latch on to the edges of the DIMM.
- 5. Install any remaining DIMM modules.



#### 4.4 IDE Devices Installation

IDE devices include hard disk drives, high-density diskette drives, and CD-ROM or DVD-ROM drives, among othes.

The mainboard ships with and IDE cable that can support one or two IDE devices. If you connect two devices to a single cable, you must configure one of the drives as Master and one of the drives as Slave. The documentation of the IDE device will tell you how to configure the device as a Master or Slave device. The Master device connects to the end of the cable.

#### 4.5 Other Device Installation

#### 4.5.1 Floppy Disk Drive Installation

The mainboard ships with a floppy disk drive cable that can support one or two drives. Drives can be 3.5" or 5.25" wide, with capacities of 360K, 720K, 1.2MB, 1.44MB, or 2.88MB.

Install your drives and connect power from the system power supply. Use the cable provided to connect the drives to the floppy disk drive connector floppy.

#### 4.5.2 Sound Connector Port Installation

This mainboard has three audio ports connect audio device. The left side jack(green) is for a stereo line-out signal. The middle jack (blue) is for a stereo line-in signal. The right side jack (red) is for a microphone.

#### 4.5.3 Clear CMOS (JP3)

This jumper allows you to clear the Real Time Clock (RTC) RAM in CMOS. You can clear the CMOS memory of date, time, and system setup parameters by erasing the CMOS RTC RAM data. The RAM data in CMOS, that include system setup information such as system passwords, is powered by the onboard button cell battery.

- 1. Turn OFF the computer and unplug the power cord.
- Move the jumper cap from pin 1-2(default) to pin 2-3. Keep the cap on pin 2-3 for about 5-10 seconds, then move the cap back to pins1-2.
- 3. Plug the power cord and turn ON the computer.
- Hold down the<DEL> key during the boot process and enter BIOS setup to re-enter data.

Notel: Except when clearing RTC RAM, never remove the cap on CLRTC1 jumper default position. Removing the cap will cause system boot failure! Note2: You do not need to clear the RTC when the system hangs due to overclocking. For system failure due to overclocking, use the C.P.R. (CPU Parameter Recall) feature. Shut down and reboot the system so BIOS can automatically reset parameter settings to default values.

#### 4.5.4 ATX Power connectors (20-pin ATXPWR1, 4-pin ATX 12V1)

These connectors connect to an ATX 12V power supply. The plugs from the power supply are designed to fit these connectors in only one orientation. Find the proper orientation and push down firmly until the connectors completely fit. In addition to the 20-pin ATXPWR1 connector, connect the 4-pin ATX +12V power plug to provide sufficient power to the CPU.

Notel: Make sure that you ATX 12V power supply can provide at least 15A on the +12V lead and at least 2A on the +5-volt standby lead (+5VSB). The minimum recommended wattage is 300W or above for a fully configured system. The system may become unstable and may experience difficulty powering up if the power supply is inadequate.

Note2: Do not forget to connect the 20-pin ATXPWR1 and 4-pin ATX12V1 power plugs. Failure to do so may cause severe damage to the CPU or motherboard!



# Chapter 5 Driver Installation

# 5.1 Installation Directory

The utility CD is supplied with that mainboard the connects contained in it are showed as below:

Directory	Driver	0S
		Windows 9x
INTEL\INF\XXX	Intel chipset software	Windows 2000/XP
		Windows NT4.0
	Realtak AC' 07 Audio	Windows 9x
SOUND\REALTEK\XXX	driver	Windows 2000/XP
	driver	Windows NT4.0
		Windows 9x
INTEL\USB2.0\845	USB 2.0 driver setup	Windows 2000/XP
		Windows NT4.0
		Windows 9x
INTEL\VGA\845	VGA driver setup	Windows 2000/XP
		Windows NT4.0

Before installing audio driver, you must identify the mode of AC' 97 codec. Fox example: If you use Realtek serial codec, you need to enter into the Realtek directory installing.

## 5.2 Intel Chipset Software Setup

Insert the driver CD, running driver software CD, choose the directory :\ CD-ROM:\INTEL\INF\XXX



# Click "NEXT" to continue

Setup	×
License Agreement Please read the following license agreement carefully.	
Press the PAGE DOWN key to see the rest of the agreement.	
INTEL SOFTWARE LICENSE AGREEMENT (DEM / HV / ISV Distribution & Single Used) IMPORTANT - READ BEFORE COPYING, INSTALLING DR USING. D a not use or load this saftware and any associated materials (colectively, the "Software") unif (so there can dary associated materials (colectively, the "Software") unif (so there can all y and the following terms and contains: By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not initial or use the Software. Please Also Note:	< 1
Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install inte[R] Chipset Software Installation Utility, you must accept this agreement.	
(Book Yes No	

Select "YES" to continue



^
-
×
>

Select "NEXT" to continue

Setup	InstallShield(R) Wizard Complete The InstalShield(R) Wizard has successful/µinsialed Intel[R] Ohare Software Instale Jour Computer program, you must restart your computer (* Yes. I want to restart my computer mark) (* No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete resup.
	Canad Finish Canad

Select "FINISH" to complete the installation.

Select "Finish" to complete the installation

# 5.3 Sound Driver Setup

# 5.3.1 Sound driver setup

Insert the driver CD, running driver software CD, choose the
directory:\CD-ROM:\SOUND\REALTEK\Setup.exe



Select "Next" to continue



Continue



Select "YES" to continue

InstallShield Wizard Complete Setup has finished installing Realhel: AC'97 Audio on your computer
<ul> <li>Yes, I want to restart my computer now;</li> <li>No, I will restart my computer later.</li> <li>Remove any disks from their driver, and then click Finish to complete setup.</li> </ul>

Select "Finish" to complete the installation

6-Channel Sound Output Support

Please follow the steps below for operation (optional):

1.After install sound driver, click "Sound effect", "AC97 Audio configuration" options;

2.Click "Sound configuration", select "6 Channel mode for 5.1 speakers output" options.

3. Click "Sound effect" menu "Environment", you must choose one Sound



effect realization 6-Channel sound output.

# 5.3.2 Uninstalltion Sound Driver (For Realtek of WIN98 operation system)

#### 5.4 USB 2.0 driver Setup

USB (Universal Serial Bus), the mainboard implements the new Universal Serial Bus(USB)2.0 specification, extending the connection speed from 12Mbps on USB1.1 to a fast 480Mbps on USB2.0.

#### 5.5 VGA driver setup

Insert the driver CD, running driver software CD, choose the directory:\CD-ROM:\VGA\845 Setup.exe



Select "NEXT" to continue



Select "YES" to continue

Intel(R) Extreme Graphics Driver Setup		
	InstallShield(R) Wizard Complete         The InstallShield(R) Wizard has successfully installed Intel(R)         Extreme Graphics Driver. Before you can use the program, you must restart your computer.         Image: The start of the program of the program of the program of the program.         Image: The program of the program of the program of the program.         Image: The program of the program of the program of the program.         Image: The program of the program of the program.         Image: The program of the program of the program.         Image: The program.         Image: The program.	
	< Back Finish Cancel	

Select "Finish" to complete the installation



# Chapter 6 BIOS Setup

The BIOS Setup Utility record settings and information of your computer, such as date and time, the type of hardware installed, and various configuration settings. Your computer applies those information to initialize all the components when booting up and basic function of coordination between system components.

If the Setup Utility configuration is incorrect, it may cause the system to malfunction. It can even stop you computer booting properly. If it happens, you can use the clear CMOS jumper to clear the CMOS memory which has stored the configuration information; or you can hold down the Page Up key while rebooting your computer. Holding down the Page Up key also clears the setup information,

#### 6.1 Main menu



You can use cursor arrow keys to highlight anyone of options on the main menu page. Press **Enter** to select the highlighted option.

Press the **Escape** key to leave the setup utility. Press the **F9** key to go back to menu in BIOS.

Some options on the main menu page lead to tables of items with installed

value that you can use cursor arrow keys to highlight on item, and press **PgUp** and **PgDn** keys to cycle through alternative values of that



item. The other options on the main menu page lead to dialog boxes that require your answer Yes or No by hitting the Y or N keys. If you have already changed the setup utility, press F10 to save those changes and exit the utility. Standard CMOS Features ♦ Setup date, time, floppy type ∻ Advanced BIOS Features Setup BIOS provides function, for example virus, boot-strap induct ∻ Advanced Chipset Features Setup mainboard chipset parameter, for example DRAM Timing ∻ **Integrated Peripherals** Setup include mainboard all peripherals drive ∻ Power Management Setup Setup CPU, Hard disk, Monitor drive power save mode PnP/PCI Configurations ∻ Setup PnP and PCI interface parameter Load Fail-Safe Defaults ∻ Setup the default values in system Load Optimized Defaults ♦ Setup the best performance values in system Set Password ♦ Setup password in system ♦ Save & Exit Setup Setup save and exit, press Y to save and exit Exit Without Save Setup ∻ Setup without save and exit, press N to without save and exit

# 6.2 Standard CMOS Features

Date (mm:dd:yy)	ate (mm:dd:yy) Fri, Feb 2 2007	
► IDE Primary Master	11 - 16 - 43	Menu Level 🕨 🕨
<ul> <li>► IDE Primary Slave</li> <li>► IDE Secondary Master</li> <li>► IDE Secondary Slave</li> </ul>		Change the internal clock.
Drive A	[1.44M, 3.5 in.]	
Video	EEGA/VGA 1	
Halt On	[All , But Keyboard]	
Base Memory Extended Memory Total Memory	640K 1K 1024K	
†↓→←:Move Enter:Select	+/-/PU/PD:Value F10:Save	ESC:Exit F1:General H

♦ Date (mm: dd: yyyy)

These items set up system date

♦ Time (hh: mm: ss)

These items set up system time

♦ Pri/Sec Master/Slave

These items configure devices connected to the Primary and Secondary IDE channels. To configure an IDE hard disk drive, choose Auto. If the Auto setting fails to find a hard disk drive, set it to User, and then fill in the hard disk characteristics manually. If you have a CD-ROM drive, select the setting CD-ROM. If you have an ATAPI device with removable media, select Floptical.

Default: EGA/VGA

Default: All, But Keyboard

- ♦ Drive A/B
- ♦ Video
- ∻ Halt On
- ♦ Base Memory
- ♦ Expanded Memory
- ✤ Total Memory

6.3	Advanced BIOS Features		
	Phoenix - AwardBIOS CMOS Setup Utility Advanced BIOS Features		
	First Boot Device [Hard Disk] Second Boot Device [CDROM]	▲ Item Help	
	Third Boot Device [Removable] Boot Other Device [Enabled]	Menu Level >	
	Hard Disk Boot Priority [Press Enter]	Device Priority	
	CD-ROM Boot Priority [Press Enter] Quick Power On Self Test [Enabled]		
	Boot Up NumLock Status [On]		
	Gate A20 Option [Fast] Security Option [Setup] APIC Mode [Fashled]		
	MPS Version Control For OS[1.4] OS Select For DRAM > 64MB [Non-OS2]		
	Report No FDD For WIN 95 [No] Full Screen LOGO Show [Enabled]		
	1↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save F5: Previous Values F6: Fail-Safe Defaults	ESC:Exit F1:General Help F7: Optimized Defaults	
Ŷ	First Boot Device	Default: Hard Disk	
	When system boot-strap first time detect dev	vice.	
∻	Second/Third Boot Device De	efault: CDROM/Removable	
	When system boot-strap first time detect dev	vice.	
Ŷ	Boot Other Device	Default: Enabled	
	If you enable this item, the system will also	search for other boot	
	devices if it fails to find an operating sys	tem from the first two	
	locations.		
Ŷ	Onboard Lan Boot ROM	Default: Disabled	
Ŷ	Hard Disk Boot Priority	Default: Press Enter	
	1. Pri.Master:		
	2. Bootable Add-in Cards		
♦	Quick Power On Self Test	Default: Enabled	
∻	Swap Floppy Drive		
	If you have two diskette drives installed and	l you enable this item,	
	drive A becomes drive B and drive B becomes	drive A.	
♦	Boot Up Floppy Seek	Default: Disabled	
$\diamond$	Boot Up NumLock Status	Default: On	
$\diamond$	Gate A20 Option	Default: Fast	
♦	Security Option	Default: Setup	

Ŷ	APIC Mode	Default: Enabled
∻	MPS Version Control For OS	Default: 1.4
∻	OS Select For DRAM > 64MB	Default: Non-OS2
∻	Report No FDD For WIN 95	Default: No
Ŷ	Full Screen Logo Show	Default: Enabled
∻	Small Logo (EPA) Show	Default: Enabled
Ŷ	CPU L1 & L2 Cache	Default: Enabled
	Leave these items enabled since all	the processors that can be
	installed on this board have internal	L2 cache memory.
Ŷ	CPU Feature	Default: Press Enter
	Limit CPUID MaxVal	Default: Disabled
	The same 1 Management	
	Inermal Management	Default: Thermal Monitor 1
Ŷ	BIOS ROM Write Protect	Default: Thermal Monitor 1 Default: Enabled
♦	BIOS ROM Write Protect Video BIOS Shadow	Default: Thermal Monitor l Default: Enabled Default: Enabled
<ul><li></li><li></li><li></li><li></li><li></li><!--</th--><th>BIOS ROM Write Protect Video BIOS Shadow C8000-CBFFF Shadow</th><th>Default: Thermal Monitor 1 Default: Enabled Default: Enabled Default: Disabled</th></ul>	BIOS ROM Write Protect Video BIOS Shadow C8000-CBFFF Shadow	Default: Thermal Monitor 1 Default: Enabled Default: Enabled Default: Disabled
<ul> <li></li> <li></li></ul>	BIOS ROM Write Protect Video BIOS Shadow C8000-CBFFF Shadow CC000-CFFFF Shadow	Default: Thermal Monitor 1 Default: Enabled Default: Enabled Default: Disabled Default: Disabled
<ul> <li></li> <li></li></ul>	BIOS ROM Write Protect Video BIOS Shadow C8000-CBFFF Shadow CC000-CFFFF Shadow D0000-D3FFF Shadow	Default: Thermal Monitor 1 Default: Enabled Default: Enabled Default: Disabled Default: Disabled Default: Disabled
<ul> <li></li> <li></li></ul>	BIOS ROM Write Protect Video BIOS Shadow C8000-CBFFF Shadow CC000-CFFFF Shadow D0000-D3FFF Shadow D4000-D7FFF Shadow	Default: Thermal Monitor 1 Default: Enabled Default: Enabled Default: Disabled Default: Disabled Default: Disabled Default: Disabled
<ul> <li></li> <li></li></ul>	BIOS ROM Write Protect Video BIOS Shadow C8000-CBFFF Shadow CC000-CFFFF Shadow D0000-D3FFF Shadow D4000-D7FFF Shadow D8000-DBFFF Shadow	Default: Thermal Monitor 1 Default: Enabled Default: Enabled Default: Disabled Default: Disabled Default: Disabled Default: Disabled Default: Disabled

	Phoenix - AwardBIOS CM Advanced Chipset	10S Setup Utility ; Features
	DRAM Timing Selectable (By SPD) CAS Latency Time (1.5] Active to Precharge Delay [7] DRAM RAS# to CAS# Delay [3] DRAM RAS# to CAS# Delay [3] Inubo Mode [Disabled] Memory Frequency For [PC100] System B108 Cacheable [Disabled] Uideo B108 Cacheable [Disabled] Memory Hole At 15M-16M [Disabled] Delayed Transaction [Enabled] Delayed Transaction [Enabled] AGP Aperture Size (MB) [64] *** On-Chip UGA Setting *** On-Chip Frame Buffer Size [8HB]	Item Help Menu Level ≻
	†↓→←:Move Enter:Select +/-/PU/PD:Value F5: Previous Values F6: Fail-Safe D	F10:Save ESC:Exit F1:General Help Defaults F7: Optimized Defaults
♦	DRAM Timing Selectable	Default: By SPD
	X CAS Latency Time	2
	X Active to Precharge Delay	6
	X DRAM RAS# to CAS# Delay	2
	X DRAM RAS# Precharge	2
∻	Memory Frequency For	Default: DDR266
	Memory frequecce enabled select DDR	200/DDR266
∻	System BIOS Cacheable	Default: Enabled
	If enable system BIOS read cache	
♦	Video BIOS Cacheable	Default: Disabled
	If enable Video BIOS read cache	
Ŷ	Memory Hole At 15M-16M	Default: Disabled
Ŷ	Delayed Transaction	Default: Enabled
$\diamond$	Delay Prior to Thermal	Default: 16Min
	Enable system detect DRAM temperatu	re time
Ŷ	AGP Aperture Size (MB)	Default: 64MB
	***On-Chip VGA Setting***	
	On-Chip VGA	Default: Enabled
	On-Chip Frame Buffer Size	Default: 8MB

6.4 Advanced Chipset Features

# 6.5 Integrated Peripherals

	Phoenix - AwardBIOS CMOS Setup Utility Integrated Peripherals		
	IDE DMA transfer access       [Enabled]         On-Chip Primary PCI IDE       [Enabled]         IDE Primary Master PIO       [Auto]         IDE Primary Slave PIO       [Auto]         IDE Secondary Master PIO       [Enabled]         IDE Secondary Master PIO       [Auto]         IDE Secondary Master UDMA       [Auto]         IDE Secondary Master UDMA       [Auto]         IDE Secondary Blave UDMA       [Auto]         USB Controller       [Enabled]         USB Controller       [Enabled]         USB Keyboard Support       [Enabled]         USB Mouse Support       [Enabled]         USB HOD Block Mode       [Enabled]         IDE HDD Block Mode       [Enabled]         POWER ON Function       [BUITON ONLY]	Iten Help Menu Level ►	
	↑↓→←:Move Enter:Select +/-/PU/PD:Ualue F10:Save F5: Previous Ualues F6: Fail-Safe Defaults	ESC:Exit F1:General Help F7: Optimized Defaults	
≻	IDE DMA transfer access	Default: Enabled	
≻	On-Chip Primary/ Secondary PCI IDE	Default: Enabled	
	Chipset inside the first/second channel of PC	CI IDE interface	
≻	IDE Primary/Secondary Master/Slave PIO	Default: Auto	
	The first/second IDE primary master/primary s	slave control PIO mode	
≻	IDE Primary/ Secondary Master/Slave UDMA	Default: Auto	
≻	USB Controller	Default: Enabled	
	Setup USB controller		
≻	USB 2.0 Controller	Default: Enabled	
≻	USB Keyboard Support	Default: Enabled	
	Setup support USB keyboard		
≻	USB Mouse Support	Default: Enabled	
≻	AC97 Audio	Default: Auto	
	If use AC97 sound chipset		
≻	Init Display First	Default: PCI Slot	
≻	IDE HDD Block Mode	Default: Enabled	
≻	POWER ON Function	Default:BUTTON ONLY	
≻	Onboard FDC Controller	Default: Enabled	
	Setup onboard FDC controller		

♦	Onboard Serial Port 1	Default:	3F8/IRQ4
¢	Onboard Serial Port 2	Default:	2F8/IRQ3
¢	UART Mode Select	Default:	IrDA
	Setup UART mode select		
¢	RxD .TxD Active	Default:	Hi.Lo
¢	IR Transmission Delay	Default:	Enabled
¢	UR2 Duplex Delay	Default:	Half
♦	Use IR Pins	Default:	IR-Rx2Tx2
♦	Onboard Parallel Port	Default:	378/IRQ7
	Setup select paralled port		
♦	Parallel Port Mode	Default:	SPP
	Setup paralled port mode		
	X EPP Mode Select	Default:	EPP1.7
	X ECP Mode Use DMA	Default:	3

# 6.6 Power Management Setup



- ♦ Video off Method
- 28

	Setup video off method	Default: DPMS
¢	Video off In Suspend	
	Setup when video off in suspend	Default: Yes
¢	Suspend Type	
	Setup suspend type	Default: Stop Grant
¢	MODEM Use IRQ	
	Setup modem use IRQ	Default: 3
Ŷ	Suspend Mode	Default: Disabled
$\diamond$	HDD Power Down	Default: Disabled
Ŷ	Soft-Off by PWR-BTTN	
	Setup soft-off type	Default: Instant-Off
¢	Wake-Up by PCI card	Default: Disabled
Ŷ	Power On by Ring	
	Setup if use modem wake up	Default: Enabled
¢	Resume by Alarm	Default: Disabled
	X Date (of Month)	Default: 0
	X Resume Time (hh:mm:ss)	Default: 0:0:0
	**Reload Global Timer Events**	
¢	Primary/ Secondary IDE 0/1	Default: Disabled
¢	FDD, COM, LPT Port	Default: Disabled
¢	PCI PIRQ [A-D] #	Default: Disabled

# 6.7 PnP/PCI Configurations

Phoenix - F	- AwardBIOS CMOS Setup U PnP/PCI Configurations	tility
Reset Configuration Data	[Disabled]	Item Help
Resources Controlled By × IRQ Resources × DMA Resources PCI/UGA Palette Snoop	[Auto(ESCD)] Press Enter Press Enter [Disabled]	Menu Level Default is Disabled. Select Enabled to reset Extended System Configuration Data ESCD) when you exit Setup if you have installed a new add-on and the system reconfiguration has caused such a serious conflict that the OS cannot boot
†↓→←:Move Enter:Select +/- F5: Previous Values F6	-/PU/PD:Value F10:Save : Fail-Safe Defaults	ESC:Exit F1:General Help F7: Optimized Defaults

 ♦ Reset Configuration Data When select Enabled the BIOS restart write system configuration data Default: Disabled
 ♦ Resources Controlled By System resources parameter setup X IRQ Resources
 Default: Auto(ESCD) Default: Press Enter

X DMA Resources Default: Press Enter ♦ PCI/VGA Palette Snoop PCI/VGA card color setup Default: Disabled

Note: The mainboard auto detect CPU frequency, so you needn' t setup CPU frequency by yourself, the CPU can display normal.

#### 6.8 Load Fail-Safe Defaults



If you select this item and press enter a dialog box appears. If you press Y, and then Enter, the setup utility loads a set of fail-safe default values. These default values are not very demanding and they should allow your system to function with most kinds of hardware and memory chips.

Note: It is highly recommended that uses enter this option to load optimal values for accessing the best performance.

#### 6.9 Load Optimized Defaults



If you select this item and press enter a dialog box appears.

If you press Y, and then Enter, the setup utility loads a set of best-

performance default values. These default values are quite demanding and your system might not function properly if you are using slower memory chips or other low-performance components.

#### hoenix - AwardBIOS CMOS Setup Utility Standard CMOS Features Frequency/Voltage Control Load Fail-Safe Defaults Advanced BIOS Features Load Optimized Defaults Advanced Chipset Features Integrated Peripherals Set Password er Management Se<mark>tup</mark> Save & Exit Setup PnP/PCI Configurati Enter Password: ut Saving 1 - -Esc : Quit F9 : F10 : Save & Exit Setup : Select Item Change/Set/Disable Password

#### 6.10 Change Password

If you highlight this item and press Enter, a dialog box appears that you can enter a supervisor password. You can enter no more than six letters or numbers. Press Enter after you have typed in the password. There will be the second dialog box asking you to retype the password for confirmation. Press Enter after you have retyped it correctly. Then the password is required for the access to the setup utility or for it at start-up, depending on the setting of the password check item in advanced setup.



#### 6.11 Save Exit & Without Save Exit Setup

Highlight this item and press Enter to save the changes that you have made in the setup utility configuration and exit the program. When the save and exit dialog box appears, press Y to save and exit, or press N to exit without saving.