Intel845GL/GV Main board User's Manual Rev: 1.0/1.2 PCB: M248

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Chapter 1 Package Contents

Your main board package contains the following items:

- 1. One M248 Rev:1.0/1.2 main board
- 2. One 80-Pin Ultra DMA 66/100 IDE drive ribbon cable
- 3. One 34-Pin Floppy drive ribbon cable
- 4. One front panel connector ribbon cable (optional)
- 5. Software Install CD
- 6. One user's manual

Chapter 2 Introduction

This main board has the Intel 845GL/GV chipset that contains Intel 82845GL/GV Memory Controller Hub and Intel 82801DB I/O Controller Hub. This main board has a Socket-478 support for Intel Pentium 4 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 six channels, front panel audio output function, provides Ultra DMA66/100 function, the integrated display function technologies without extend display card, provides three PCI slots. The main board integrated main board, VGA card, sound card three function all in one.

Key Features:

-Chipset:

Intel 845GL/GV chipset GMCH: Intel 82845GL/GV; ICH4: Intel 82801DB (DBM)

-Processor:

Supports Intel Celeron CPU Socket 478 CPU Supports Intel Pentium 4 (Northwood) Socket 478 CPU Supports Intel Pentium 4 (Willamette) Socket 478 CPU Supports Intel Pentium 4 (Prescott) Socket 478 CPU Supports Intel Celeron D (Prescott) Socket 478 CPU

-Supports 400/533MHz HOST BUS Frequency

-Memory Support:

Supports DDR200/DDR266 (Double Data Rate) SDRAM 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

-BIOS Supports

Supports Plug and Play Supports Advanced Power Management Interface

-IDE Port

Provides two channel connecting four IDE drives Supports Ultra ATA66/100 synchronous DMA modes

-I/O Ports

One Floppy port support format 360k/720k/1.2M/1.44M/2.88M disk driver One serial port One parallel port Six USB ports (two back-panel USB ports, onboard USB headers providing Maximum four extra ports) One PS/2 Keyboard port One PS/2 Mouse One Game/MIDI port One IrDA port support 115.2KB/S transfers' data.

-Onboard Sound AC'97 2.2 specification compliant

Support 16bit stereo codec Multiple stereo input mixers Provides onboard Line-in Jack, Microphone-in Jack

-Expansion Slot Three PCI slots 2.2 specifications compliant

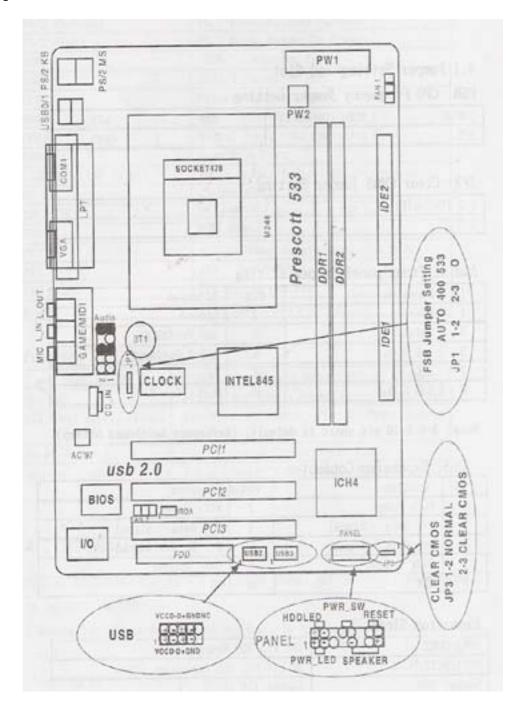
-Hardware detects function (Optional)

Auto detect CPU Voltage and CPU Temperature Auto detect CPU FAN and Power FAN speed

-Other function Supports Wake-on-LAN Supports Wake-on-Modem

-Dimension Micro ATX form factor

Chapter 3 Main board Locations



Chapter 4 Installation

4.1 Jumper Setting and Slot

FSB CPU Frequency Jumper Setting

JUMPER	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

Note: 5-6, 9-10 pin short is default. (Reference main board bitmap)

USB: Expansion Connector

PIN	Function	PIN	Function
1	VCC: Power	2	Ground
3	D-: Data – Signal	4	AuD_Vcc (AVCC)
5	D+: Data + Signal	6	AuD_R_Out Back
7	GND: Ground	8	Key
9	KEY	10	AuD_L_Back

Expansion Slots

DDR1/DDR2	184 Pin DDR Memory Slots
PCI1/PCI2/PCI3	32 bit PCI BUS Expansion Slots
Socket 478	Socket 478 CPU Slots

Connectors

connectors	
PS/2 (Bottom)	PS/2 Keyboard (Down Purple)
PS/2 (Top)	PS/2 Mouse Header (Up Green)
USB 0/1	USB 0/1 Connector Port
USB 2/3	USB 2/3 Connector Port
LPT	Printer Connector Port
VGA	VGA Display Connector Port
COM1	Serial Ports COM1 Connector Port
GAME/MIDI	Game/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 Pane1

Power Supply LED	Pin 1:Power Supply Anode; Pin 3: Ground
HDD LED	Pin 2: Power Supply Anode; Pin 4: LED Signal
ATX Power Supply Switch	Pin 8: Switch Signal; Pin 10: 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 main board has a socket 478 processor socket. Follow these instructions to install the CPU:

1. Unhook the CPU socket's locking lever pulling it away from socket and raising it to the upright position.

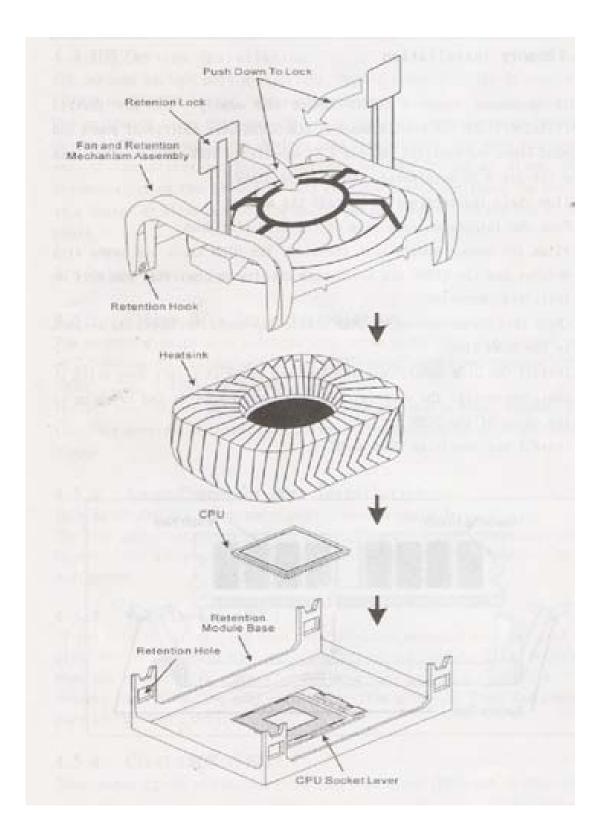
2. Match the pin 1 corner of CPU socket to the one of processor, and insert the processor into the socket. Do not use force.

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/heat sink unit onto the CPU and CPU socket, and then use the retention module clamps to snap the fan/heat sink into place.

6. Plug the CPU fan power cable into the CPU cooling fan power supply connector on the main board.



4.3 Memory installation

This main board supports DDR200/DDR266 DDR memory you may install 64/128/256/512MB 184 pin DDR memory. DDR SDROM 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:

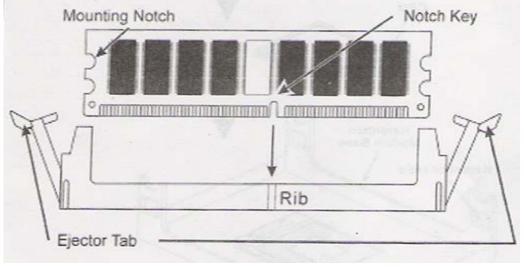
1. Push the latches on each side of the DIMM slot down.

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 others.

The main board ships with an 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

This main board 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 main board has three audio ports connects audio device.

The left side jack (green) is for a stereo line-out signal. The middle jack (gray) is for a stereo line-in signal. The right side jack (red) is for a microphone.

4.5.3 Wake on LAN (WOL)

If you have installed a LAN card, use the cable provided with the card to plug into the main board WOL connector. This enables the Wake on LAN feature. When you system is in a power saving mode, any LAN signal automatically resumes the system. You must enable this item using the power Management page of the Setup Utility.

4.5.4 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.

2. 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, and then move the cap back to pinsl-2.

3. Plug the power cord and turn ON the computer.

4. Hold down the key during the boot process and enter BIOS setup to re-enter data.

Note1: 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 over clocking. For system failure due to over clocking, use the C.P.R. (CPU Parameter Recall) feature. Shut down and reboot the system so BIOS can automatically reset parameter settings to defaults values.

4.5.5 ATX Power connectors (20-pin ATXPWRI, 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.

Note1: 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 ATXPWRI and 4-pin ATX12V1power 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 main board the connects contained in it is showed as below:

Directory	Driver	OS
INTEL\INF\XXX	Intel chipset software	Windows 9x Windows 2000/XP Windows NT4.0
INTEL\IAA\845\XXX	Intel IAA setup	Windows 9X/SE/XP Windows 2000/XP
SOUND\REALTEK\XXX	Realtek AC' 97 Audio driver	Windows 9x Windows 2000/XP Windows NT4.0
INTEL\USB2.0\845	USB 2.0 driver setup	Windows 9x Windows 2000/XP Windows NT4.0
INTEL\VGA\845	VGA driver setup	Windows 9x Windows 2000/XP Windows NT4.0

Before installing audio driver, you must identify the mode of AC' 97 codec. For 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

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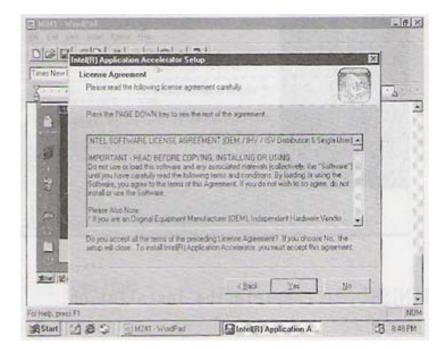
Select "FINISH" completing the installation.

5.3 IAA (Intel Application Accelerator) Setup

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



Click "Next" to continue



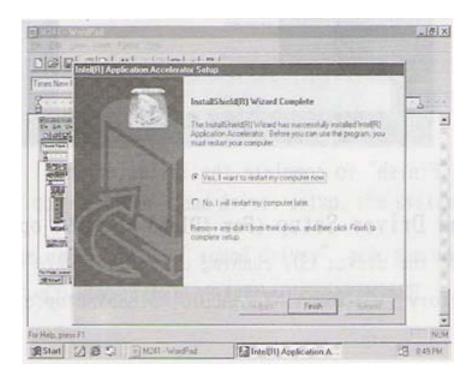
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Select "Next" to continue

Select Program Folder Please select a program folder.	
name, or select one from the evo Bogs we Foldere	e Piopran Folder Antid below. You now type a new folde ing hilden hit. Dick Neet to continue
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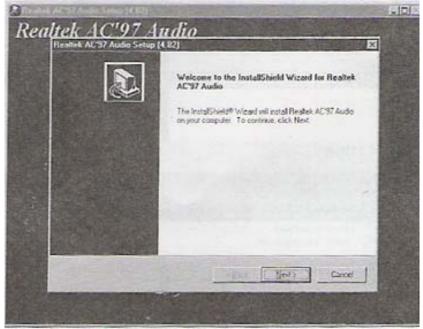
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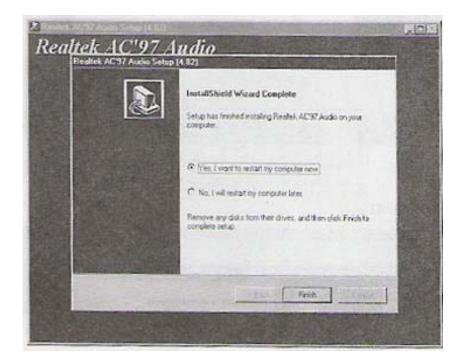
Select "Finish" to complete the installation

5.4 Sound Driver Setup5.4.1 Sound driver setup (For Realtek series of WIN98 operation system)

Insert the driver CD, running driver software CD, choose the Directory:\CD-ROM:\SOUND\REALTEK\SETUP.EXE



Select "Next" to continue



Select "Finish" to complete the installation

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.

5.4.3 Uninstallation Sound Driver (For Realtek of WIN98 operation system)

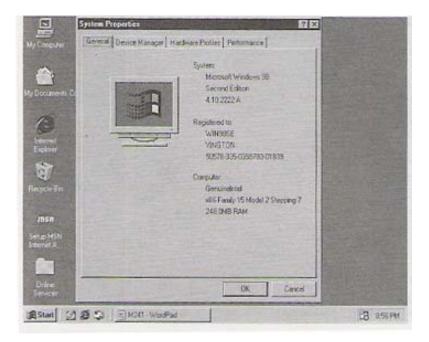
Startup to WINDOWS desktop' select "SETUP"/ "Control Panel", select "Add/Delete" menu select "Advance AC' 97 Audio Driver and Applications", click "Add/Delete", select "language", "confirm" "GO", select, "Complete", restart and program auto delete.

5.5 USB 2.0 driver Setup

USB (Universal Serial Bus), the main board 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

5.5.1 Windows 98se driver setup

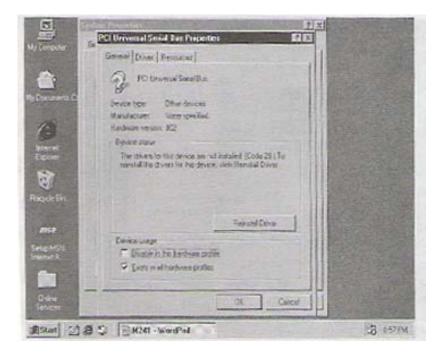
Click "My computer", Click right key of mouse



Select "Device manager" to continue

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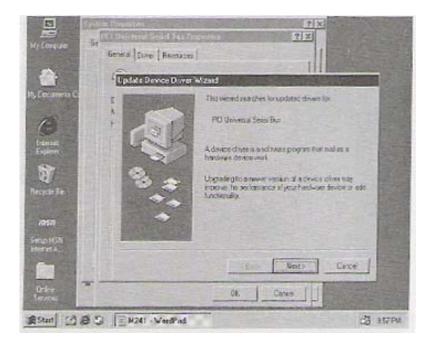
Select "PCI Universal Serial Bus" and double click to continue



Select "Reinstall Driver" to continue

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Online Generation	OK Careed

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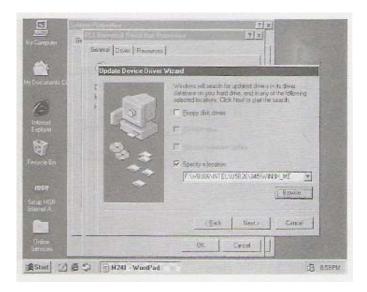


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	C Diploy s intel all the down in a specific location to powers elect the drive you want.
INST Select HSTI Investel A	
	Check Not Carol
Diese Contraction	
ASIM @ & EM211 - WandPad	HB BIRPH

Select "Specify a location" and type "F:\INTEL\USB20\845\WIN98_ME" that

Select "Next" to continue



Select "Next" to Continue

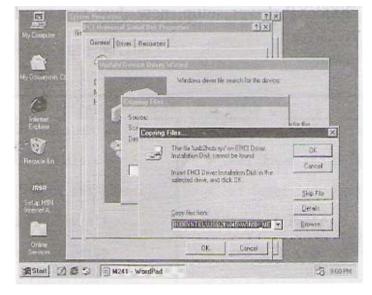
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internel Exclusion	What do you want to mead?
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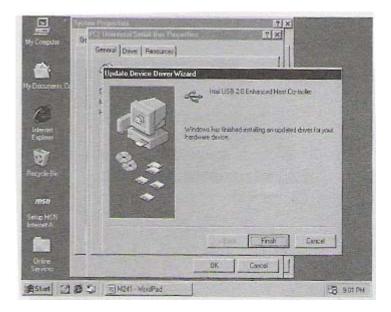
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Select "OK" to Continue

Type "F:\INTEL\USB20\845\WIN98_ME" that Select "OK" to continue



Select "Finish" continuing

5.5.2 Windows 2000/XP driver setup, new may run windows update to setup by internet.

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 computers applies those information to initialize all the component's 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

Phoenix AwardBIOS CMOS Setup Utility		
▼ Standard CMOS Feature	▼Load Fail-Safe Defaults	
▼Advanced BIOS Feature	▼Load Optimized Defaults	
▼Advanced Chipset Feature	▼ Set Supervisor Password	
▼ Integrated Peripherals	▼ Set User Password	
▼Power Management Setup	▼Save & Exit Setup	
▼Power Management Setup	▼Exit Without Saving	
▼PnP/PCI Configurations		
▼ Frequency/Voltage Control		
Esc : Quit F9 :Menu in BIOS $\uparrow \downarrow \leftrightarrow$:Select item		
F10 : Save & Exit Setup		
Time, Date, Hard Disk Type		

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 led 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 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 main board chipset parameter' for example DRAM Timing
- Integrated Peripherals
 Setup include main board all peripherals drive
- Power Management Setup
 Setup CPU, Hard disk, Monitor drive power save mode
- PnP/PCI Configurations
 Setup PnP and PCI interface parameter
- PC Health Status Setup CPU/System temperature and FANs/Voltage Measurements
- Frequency/Voltage Control Setup CPU frequency/Voltage in system
- Load Fail-Safe Defaults
 Setup the best performance values in system
- Set Supervisor Password Setup supervisor password in system
- Set User Password
 Setup user 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:yyyy) These items set up system date
- Time (hh:mm:ss)
 These items set up system time
- Pri/Sec Master/Slave

These items configure device 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 Fl optical.

6.3 Advanced BIOS Features

CPU L1&L2 Cache

Leave these items enabled since all the processors that can be installed on this board have internal L2 cache memory.

- First Boot Device
 When system boot-strap first time detect device.
- Second/Third Boot Device
 When system boot-strap first time detect device.

➢ Boot Other Device

If you enable this item, the system will also search for other boot devices if it fails to find an operating system from the first two locations.

Swap Floppy Drive If you have two diskette drives installed and you enable this item, drive A becomes drive B and drive B becomes drive A.

6.4 Advanced Chipset Features

0.4 A	Ivanceu Chipset Features	
\succ	DRAM Timing Selectable	
	BIOS auto detect by SPD	Default: Manual
\triangleright	CAS Latency Time	
	Set up memory read order wait time	Default: 2.5
\succ	Active to Precharge Delay	
	Control DRAM running precharge delay time option	
		Default: 6
\triangleright	DRAM RAS-to-CAS Delay	
	Control DRAM startup read and write order Default: 3	
\triangleright	Memory Frequency For	
	Memory frequency enabled select DDR200/DDR266	
		Default: AUTO
\succ	System BIOS Cacheable	
	If enable system BIOS read cache	Default: Disabled
\succ	Video BIOS Cacheable	
	If enable Video BIOS read cache	Default: Disabled
\succ	Delayed Transaction	
	Enable ICH2 will be delayed	Default: Disabled
\succ	Delayed Prior to Thermal	
	Enable system detect DRAM temperature time Default: 16	nin.
\succ	AGP Aperture Size (MB)	
	Select AGP capability	Default: 64MB
6.5 In	tegrated Peripherals	
\succ	On-Chip Primary/ Secondary PCI IDE	
	Chipset inside the first/second channel of PCI IDE interface	e
		Default: Enabled

- IDE Primary/Secondary Master/Slave PIO The first/second IDE primary master/primary slave control PIO mode Default: Auto
 USB Controller Setup USB controller
 Default: Enabled
- USB Keyboard Support Setup support USB keyboard
 AC97 Audio
 If use AC97 sound chipset
 Default: Auto

\triangleright	Init Display First	
	When boot-start the first time detect device	
		Default: PCI slot
\triangleright	Onboard FDC Controller	
	Setup onboard FDC controller	Default: Enabled
\triangleright	Onboard Serial Port ¹ / ₂	
	Setup onboard serial Port ¹ / ₂	Default: 3F8/IRQ4
\triangleright	UART Mode Select	
	Setup UART mode select	Default: Normal
\triangleright	Onboard Parallel port	
	Setup select parallel port	Default: 378/IRQ7
\triangleright	Parallel Port Mode	
	Setup parallel port mode	Default: SPP
\triangleright	Game/Midi Port Address	
	Setup game/MIDI port address	Default: 201/330
\triangleright	Midi Port IRQ	
	Setup MIDI port IRQ	Default: 10

6.6 Power Management Setup

	0	
\triangleright	ACPI Function	
	Setup if use ACPI function	Default: Enabled
\succ	Video off Method	
	Setup video off method	Default: DPMS
\succ	Video off in Suspend	
	Setup when video off in suspend	Default: Yes
\triangleright	Suspend Type	
	Setup suspend type	Default: Stop Grant
\succ	MODEM Use type	
	Setup modem use IRQ	Default: 3
\triangleright	Soft-Off by PWR-BTTN	
	Setup soft-off type	Default: Instant-Off
\triangleright	Power On by Ring	
	Setup if use mode wake up	Default: Enabled
\triangleright	USB KB Wake-Up From S3	
	Setup if use USB keyboard wake-up from S3 Default: Enal	bled
6.7 Pn	P/PCI Configurations	
\triangleright	Reset Configuration Data	
	When select Enabled the BIOS restart write system configu	uration data
	Default: Disabled	
\triangleright	Resources Controlled By	

System resources parameter setupDefault: Auto (ESCD)> PCI/VGA Palette Snoop
PCI/VGA card color setupDefault: Disabled

6.8 Frequency/Voltage Control

- Auto Detect PCI CIK
 Setup auto detect PCI clock
 CBU Clock
- CPU Clock Setup CPU BUS frequency

Default: Enabled

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

6.9 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.

6.10 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.

6.11 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.

6.12 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.

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