PEB-7601VLA USER'S MANUAL Of VIA CN700 Chipset & VIA VT8237R Plus Chipset

M/B For VIA C7TM processor family

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Manual Revision Information

Reversion	Revision History	Date
1.0	First Edition	April 2006

Item Checklist

- Motherboard
- Cable for IDE/Floppy
- \square CD for motherboard utilities
- Cable for USB Port 2/3 (Option)
- User's Manual
- Cable for COM2 Serial Port (Option)
- Cable for S-Video/RCA Composite TV-Out (Optional)

Chapter 1

Introduction of PEB-7601VLA VIA CN700 Chipset Motherboards

1-1 Feature of motherboard

The PEB-7601VLA motherboard series are designed for the new generation VIA C7[™] processor family with the VIA CN700 Chipset that delivers a high performance and professional desktop platform solution. The VIA CN700 is fully optimized to provide an outstanding HD digital media experience. Featuring the all new high bandwidth V4 bus as well as support for DDR2 memory modules which is expandable to 1.0GB.

The VIA CN700 Chipset motherboard series utilize the newest VIA CN700 chipset which supports 400MHz/ 533MHz System Bus in data transfer rate. The VIA CN700 Chipset motherboard series feature a robust shared memory architecture and provide 133MHz/166MHz/200MHz Memory clock frequency for DDR2 533/400 system RAM Modules. The motherboard series are embedded with VIA VT8237R Plus South Bridge offers ULTRA **ATA 133** and **Serial ATA with RAID 0, 1,JBOD** functions to provide speedier HDD throughout that boosts overall system performance. The VIA CN700 Chipset motherboard series implement the VIA VT6103L LAN PHY chip Support Fast Ethernet LAN function provide 10/100 Mb/s data transfer rate.

The motherboard series also have an integrated 6-channel AC'97 CODEC on board which is fully compatible with Sound Blaster Pro[®] that gives you the best sound quality and compatibility.

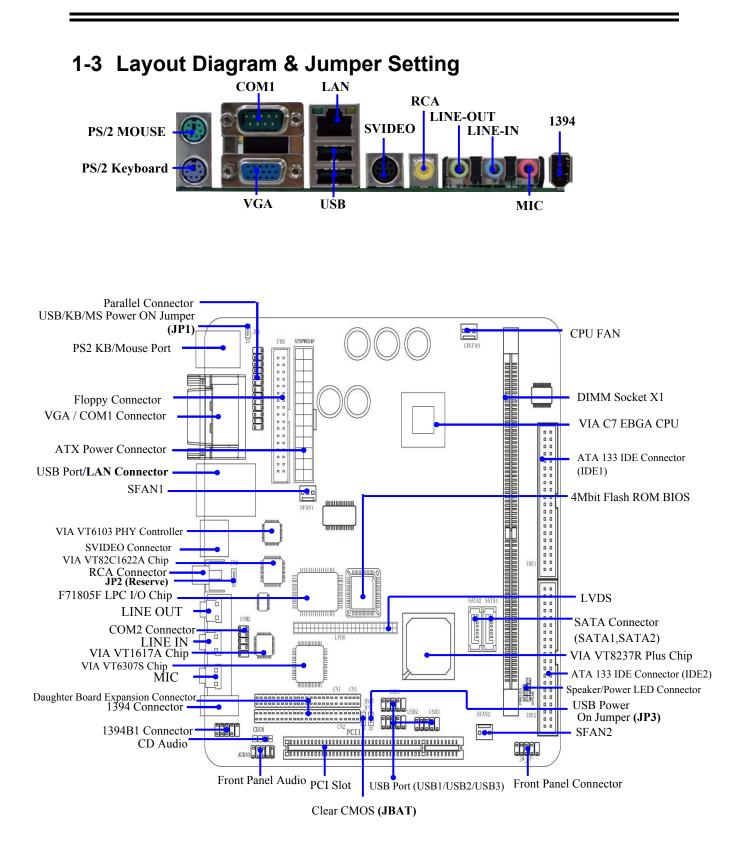
The VIA CN700 Chipset motherboard series are integrated the VIA Graphics UniChrome[™] Pro IGP graphics core, the chipset features the Chromotion CE Video Display engine with hardware MPEG-2 playback. Together with an advanced 2D/3D graphics core, the VIA CN700 offers exceptional playback and streaming of various digital video formats while maintaining ultra low power consumption and exerting minimal load on the processor. The VIA CN700 also provides extensive display support with outputs to CRT, LCD and standard definition TV as well as support for HDTV up to 1080p resolution.

With USB controller as well as capability of expanding to 8x USB2.0 function ports delivering 480Mb/s bandwidth and rich connectivity, the motherboards meet future USB demand also have built-in hardware monitor function to monitor and protect your computer.

The motherboards provide reliable performance & meets mainstream specification of MCE related concepts. It is really a cost effective choice for your computer.

1-2 Specification (PEB-7601VLA)

Spec	Description
Design	* Mini ITX form factor 6 layers PCB size: 17.0x17.0cm
Chipset	* VIA CN700 Chipset
_	* VIA VT8237R Plus Chipset
CPU	* Embedded VIA CN700 NANO BGA processor
Memory Socket	* 240-pin DDR2 DIMM socket x1
	* Support DDR2 533/400 system RAM Modules DDR memory
	* Expandable to 1GB
Expansion Slot	* 32-bit PCI slot x 1cs
Integrate VGA	* Integrate 2D/3D graphic Engines
	* 8/16/32/64MB frame buffer using system memory
	* Internal AGP 8x performance
	* Support 24-bit 250MHz RAMDAC
TV-Out	* VIA VT1622A TV Encoder
	* Provided S-Video/Composite output for NTSC/PAL system
Integrate IDE and	* Two PCI IDE controllers support PCI Bus Mastering, ATA
Serial ATA RAID	PIO/DMA and the ULTRA DMA 33/66/100/133 functions that
	deliver the data transfer rate up to 133 MB/s; Two Serial ATA
	ports provide 150 MB/sec data transfer rate for two Serial ATA Devices and offer RAID 0, 1, JBOD functions
.	
Integrate LAN	* Integrated VIA VT6103 LAN-PHY Controller
	* Support 10/100 BASE-T Transfer rate
Audio	 * AC'97 Digital Audio controller integrated * 6-channel AC'97 Audio CODEC onboard
BLOG	* Audio driver and utility included
BIOS Multi I/O	 * Award 4Mb Flash ROM * PS/2 keyboard and PS/2 mouse connectors
	 F 5/2 Reyboard and F 5/2 modse connectors Floppy disk drive connector x1
	 * VGA x1, Serial port x1
	* USB 2.0 connector x2
	 * USB 2.0 headers x3 (connecting cable option)
	* Audio connector (Line-in, Line-out, MIC)
1394	* Integrated VIA VT6307S 1394 controller
(Optional)	* Compliant with IEEE 1394a-2000 standard, support 400Mbit/s
× • /	data transfer rate.



Jumpers

Jumper	Name	Description	Page
JP1	Keyboard Power ON Function Setting	3-pin Block	p.5
JP3	USB Power On Function Setting	3-pin Block	p.5
JBAT	CMOS RAM Clear Function Setting	3-pin Block	p.6
JP2	TV OUT/SPDIF Function Setting	3-pin Block	p.6

Connectors

Connector	Name	Description	Page
ATXPWR	ATX Power Connector	20-pin Block	p.12
KB/MS1	PS/2 Mouse & PS/2 Keyboard Connector	6-pin Female	p.12
UL1	USB/ LAN Port Connector	4-pin Connector	p.13
COM1	Serial Port Connector	25-pin Female	p.13
VGA	VGA Port Connector	15-pin Female	p.13
SVIDEO	S-Video TV-Out Connector	4-pin MINI-DIN	p.13
RCA	Composite TV-Out / or SPDIF Connector	RCA Jack	p.13
Line-In/Out, MIC	Line-Out/Line-In/MIC Audio Connector	Phone Jack	p.12
1394	1394 Port1 Connector	9-pin Connector	p.13
FDD	Floppy Driver Connector	34-pin Block	p.13
IDE1/IDE2	Primary/Secondary Connector	40-pin Block	p.14
SATA1/2	Serial ATA IDE Connector	7-pin Connector	p.14

Headers

Header	Name	Description	Page
COM2	COM2 Serial Port Headers	10-pin Block	p.15
PARALLEL	Parallel Port Headers	25-pin Block	p.15
AUDIO	Line-Out/MIC output Header	4-pin Block	p.16
USB1/USB2/ USB3	USB2.0 Port Headers	10-pin Block	p.16
1394B1	1394 Port2 Headers	9-pin Block	p.17
HD_LED	Hard drive LED connector	3-pin Block	p.17
RESET	Reset switch lead	2-pin Block	p.17
SPEAK	Speaker connector	4-pin Block	p.17
PWR LED	Power LED Headers	2-pin Block	p.17
PWR BTN	Power Button Headers	2-pin Block	p.17
CPUFAN, SFAN1/2	FAN Speed Headers	3-pin Block	p.17
LVDS	LVDS Headers	50-pin Block	p.19
CDIN	CD Audio-In Headers	4-pin Block	p.18
CN1/CN2	Daughter Board Expansion Headers	50-pin Block	p.18

Expansion Sockets

Socket/Slot	t/Slot Name Description		Page
DDR2	DDR2 SDRAM Module 240-pin DDR2 SDRAM Module		p.9
	Socket	Expansion Socket	î
PCI1	PCI Slot	32-bit PCI Local Bus Expansion slots	p.9

Chapter 2

Hardware installation

2-1 Hardware installation Steps

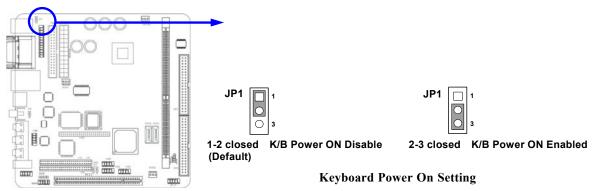
Before using your computer, you had better complete the following steps:

- 1. Check motherboard jumper setting
- 2. Install CPU and Fan
- 3. Install System Memory (DIMM)
- 4. Install Expansion cards
- 5. Connect IDE and Floppy cables, Front Panel /Back Panel cable
- 6. Connect ATX Power cable
- 7. Power-On and Load Standard Default
- 8. Reboot
- 9. Install Operating System
- 10. Install Driver and Utility

2-2 Checking Motherboard's Jumper Setting

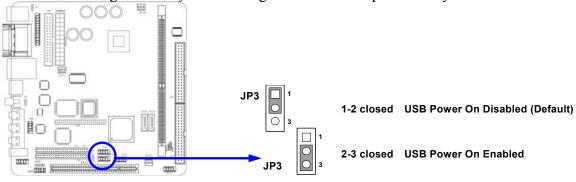
(1) Keyboard Power On function Enabled/Disabled (3-pin): JP1

When setting Enabled you can using keyboard by key in password to power on system.



(2) USB Power On function Enabled/Disabled (3-pin): JP3

When setting Enabled you can using USB Device to power on system.



(3) CMOS RAM Clear (3-pin): JBAT

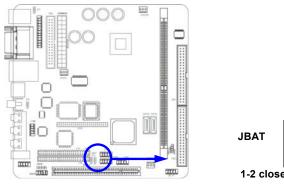
A battery must be used to retain the motherboard configuration in CMOS RAM short 1-2 pins of JPAT to store the CMOS data.

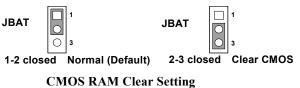
To clear the CMOS, follow the procedure below:

- 1. Turn off the system and unplug the AC power
- 2. Remove ATX power cable from ATX power connector
- 3. Locate JBAT and short pins 2-3 for a few seconds
- 4. Return JBAT to its normal setting by shorting pins 1-2
- 5. Connect ATX power cable back to ATX power connector

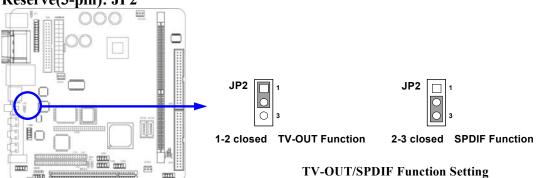
Note: When should clear CMOS

- 1. Troubleshooting
- 2. Forget password
- 3. After over clocking system boot fail





(4) TV-OUT/SPDIF Function Reserve(3-pin): JP2



2-3 Glossary

Chipset (core logic) - two or more integrated circuits which control the interfaces between the system processor, RAM, I/O devises, and adapter cards.

Processor socket - the socket used to mount the system processor on the motherboard.

Slot (AGP, PCI, ISA, RAM) - the slots used to mount adapter cards and system RAM.

AGP - Accelerated Graphics Port - a high speed interface for video cards; runs at 1X (66MHz), 2X (133MHz), or 4X (266MHz).

PCI - **P**eripheral Component Interconnect - a high speed interface for video cards, sound cards, network interface cards, and modems; runs at 33MHz.

Serial Port - a low speed interface typically used for mouse and external modems.

Parallel Port - a low speed interface typically used for printers.

PS/2 - a low speed interface used for mouse and keyboards.

USB - Universal Serial Bus - a medium speed interface typically used for mouse, keyboards, scanners, and some digital cameras.

Sound (interface) - the interface between the sound card or integrated sound connectors and speakers, MIC, game controllers, and MIDI sound devices.

BIOS (Basic Input/Output System) - the program logic used to boot up a computer and establish the relationship between the various components.

Driver - software, which defines the characteristics of a device for use by another device or other software.

Processor - the "Central Processing Unit" (CPU); the principal integrated circuit used for doing the "computing" in "personal computer"

Front Side Bus Frequency - The working frequency of the motherboard, which is generated by the clock generator for CPU, DRAM and PCI BUS.

CPU L2 Cache - The flash memory inside the CPU, normally Pentium III CPU has 256K or above, while Celeron CPU will have 128K.

2-3-1 Setting CPU Bus Clock & Memory Clock Jumper

Setting the front side bus frequency and SDRAM frequency

The motherboard uses jumper less function for the front side bus frequency and SDRAM frequency users don't need setting any jumper when plug the CPU in motherboard *For experience user looking for over clocking possibility, please refer to sec 2-3-2.*

2-3-2 Over clock Running

WARNING! This section is for experienced motherboard installer only. Over clocking can result in system instability or even shortening life of the processor.

Users can choose over clock running by BIOS CMOS SETUP UTILITY. When you entered CMOS SETUP UTILITY, choose "Miscellaneous Control" you will see the screen as below then.

Phoenix - AwardBIOS CMOS Setup Utility

Miscellaneous Control

Auto Detect PCI Clock Spread Spectrum ** Current Host Clock Host Clock at Next Boot ** Current DRAM CLOCK DRAM Clock at Next Boot VDIMM Select VAGP Select Flash Part Write Protect	Enabled Disabled 100MHZ 100MHZ 266MHz ** 266MHz(By SPD) 1.90V(Default) 1.55V(Default) Disabled	Item Help Menu Level >		
↑↓→← Move Enter:Select Item +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Optimized Defaults F7:Standard Defaults				

WARNING! The Design of this motherboard follows chipset and CPU vender's design guideline. Any attempts to push beyond product specification are not recommended and you are taking your own risk to damage your system or important data. Before over clocking, you must make sure your components are able to tolerate such abnormal setting, especially CPU, memory, hard disks, and VGA cards.

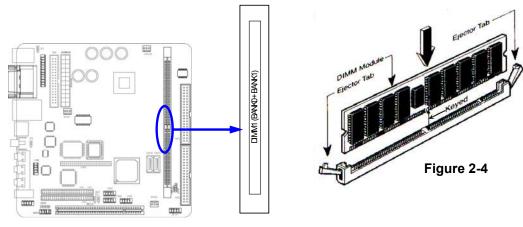
2-4 Install Memory

The motherboards provide one 240-pin DUAL INLINE MEMORY MODULES (DIMM) sites for memory expansion available from minimum memory size of 64MB to maximum memory size of 1.0GB DDR2 SDRAM.

Valid Memory Configurations

Bank	184-Pin DIMM	PCS	Total Memory
Bank 0, 1 (DDR1)	DDR2 533/DDR2 400	X1	64MB~1.0GB
	DDR2 SDRAM Module		
Total	System Memory (Max. 1.0GB)	1	64MB~1.0GB

Generally, installing DDR SDRAM modules to your motherboard is very easy, you can refer to figure 2-4 to see what a 240-Pin DDR2 400/DDR2 533 DDR2 SDRAM module looks like.



NOTE! When you install DIMM module fully into the DIMM socket the eject tab should be locked into the DIMM module very firmly and fit into its indention on both sides.
 WARNING! For the DDR SDRAM CLOCK is set at 133MHz, use only DDR266-compliant DDR Modules. When this motherboard operate at 133MHz, most system will not even boot if non-compliant modules are used because of the strict timing issues, if your SDR Modules are not DDR266-compliant, set the DDR SDRAM clock to 100MHz to ensure system stability.

2-5 Expansion Cards

WARNING! Turn off your power when adding or removing expansion cards or other system components. Failure to do so may cause severe damage to both your motherboard and expansion cards.

2-5-1 Procedure For Expansion Card Installation

- 1. Read the documentation for your expansion card and make any necessary hardware or software setting for your expansion card such as jumpers.
- 2. Remove your computer's cover and the bracket plate on the slot you intend to use.
- 3. Align the card's connectors and press firmly.
- 4. Secure the card on the slot with the screen you remove above.
- 5. Replace the computer system's cover.
- 6. Set up the BIOS if necessary.
- 7. Install the necessary software driver for your expansion card.

2-5-2 Assigning IRQs For Expansion Card

Some expansion cards need an IRQ to operate. Generally, an IRQ must exclusively assign to one use. In a standard design, there are 16 IRQs available but most of them are already in use.

IRQ	Priority	Standard function			
0	N/A	System Timer			
1	N/A	Keyboard Controller			
2	N/A	Programmable Interrupt			
3 *	8	Communications Port (COM2)			
4 *	9	Communications Port (COM1)			
5 *	6	Sound Card (sometimes LPT2)			
6 *	11	Floppy Disk Controller			
7 *	7	Printer Port (LPT1)			
8	N/A	System CMOS/Real Time Clock			
9 *	10	ACPI Mode when enabled			
10 *	3	IRQ Holder for PCI Steering			
11 *	2	IRQ Holder for PCI Steering			
12 *	4	PS/2 Compatible Mouse Port			
13	N/A	Numeric Data Processor			
14 *	5	Primary IDE Channel			
15 *	1	Secondary IDE Channel			

Standard Interrupt Assignments

* These IRQs are usually available for ISA or PCI devices.

2-5-3 Interrupt Request Table For This Motherboard Interrupt request are shared as shown the table below:

	INT A	INT B	INT C	INT D	INT E	INT F	INT G	INT H
Slot 1		\checkmark						
Onboard VGA	\checkmark							
Onboard USB 1	1							
Onboard USB 2		V						
Onboard USB 3			N					
LAN			,					
AC97/MC97			V					

IMPORTANT!	If using PCI cards on shared slots, make sure that the drivers support "Shared
	IRQ" or that the cards don't need IRQ assignments. Conflicts will arise between
	the two PCI groups that will make the system unstable or cards inoperable.

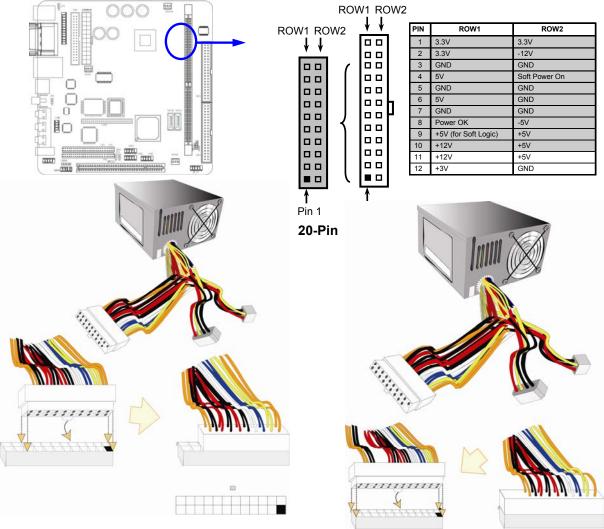
2-6 Connectors, Headers

2-6-1 Connectors

(1) Power Connector (24-pin block) : ATXPWR

ATX Power Supply connector. This is a new defined 24-pins connector that usually comes with ATX case. The ATX Power Supply allows to use soft power on momentary switch that connect from the front panel switch to 2-pins Power On jumper pole on the motherboard. When the power switch on the back of the ATX power supply turned on, the full power will not come into the system board until the front panel switch is momentarily pressed. Press this switch again will turn off the power to the system board.

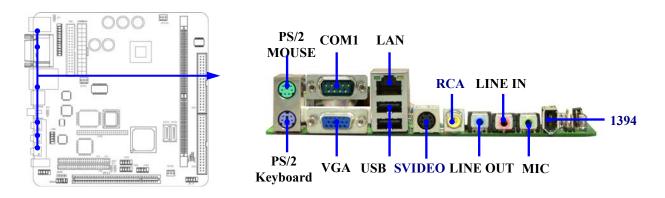
- ** We recommend that you use an ATX 12V Specification 2.0-compliant power supply unit (PSU) with a minimum of 350W power rating. This type has 24-pin and 4-pin power plugs.
- ** If you intend to use a PSU with 20-pin and 4-pin power plugs, make sure that the 20-pin power plug can provide at least 15A on +12V and the power supply unit has a minimum power rating of 350W. The system may become unstable or may not boot up if the power is inadequate.



(2) PS/2 Mouse & PS/2 Keyboard Connector: KB/MS1 If you are using a PS/2 mouse, you must purchase an optional PS/2 mouse set which connects to the 5-pins block and mounts to an open slot on your computer's case.

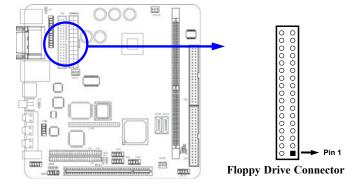
(3) **USB Port connector: UL1** The connectors are 4-pins connector that connect USB devices to the system board, and standard RJ45 connector for Network supports 10/100 BASE-T transfer rate. (4) Serial Port Connector (9-pin female): COM1 Serial Port connector is a 9-pin D-Subminiature connector. The On-board Serial Port can be disabled through the BIOS SETUP. Please refer to Chapter 3 "INTEGRATED PERIPHERALS SETUP" section for more detail information. (5) VGA Connector (15-pin female): VGA VGA Connector is a 15-pin D-Subminiature Receptacle connector. This connector is for connection Monitor and System to display. **TV-Out Connector: S-Video/ RCA** (6) The S-Video/RCA Connector is for S-Video/Composite TV-Out function RCA is setting for Composite TV-Out connector when JP3 setting 1-2 closed RCA is setting for SPDIF-Out connector when JP3 setting 2-3 closed Audio Connector: (Line-Out/ Line-IN/ MIC) (7) This Connector are 3 phone Jack for LINE-OUT/ LINE-IN/ MIC. Audio output to speaker Line-out : Line-In : Audio input to Audio controller MIC: Microphone Connector

(8) 1394 Port1 Connector: 1394



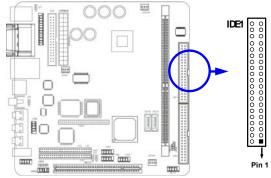
(9) Floppy drive Connector (34-pin block): FDD

This connector supports the provided floppy drive ribbon cable. After connecting the single plug end to motherboard, connect the two plugs at other end to the floppy drives.



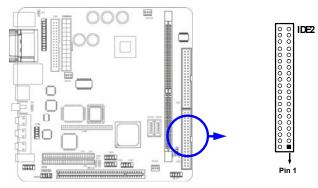
(10) Primary IDE Connector (40-pin block): IDE1

This connector supports the provided IDE hard disk ribbon cable. After connecting the single plug end to motherboard, connect the two plugs at other end to your hard disk(s). If you install two hard disks, you must configure the second drive to Slave mode by setting its jumpers accordingly. Please refer to the documentation of your hard disk for the jumper settings.



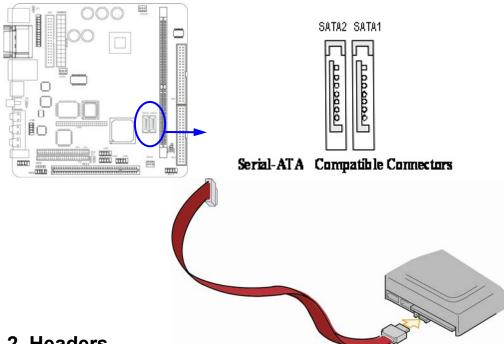
(11) Secondary IDE Connector (40-pin block): IDE2

This connector connects to the next set of Master and Slave hard disks. Follow the same procedure described for the primary IDE connector. You may also configure two hard disks to be both Masters using one ribbon cable on the primary IDE connector and another ribbon cable on the secondary IDE connector.



- Two hard disks can be connected to each connector. The first HDD is referred to as the "Master" and the second HDD is referred to as the "Slave".
- For performance issues, we strongly suggest you don't install a CD-ROM or DVD-ROM drive on the same IDE channel as a hard disk. Otherwise, the system performance on this channel may drop.

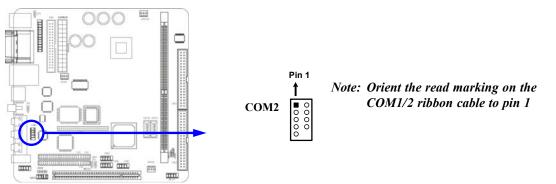
(12) Serial-ATA Port connector: SATA1 / SATA2 This connector supports the provided Serial ATA IDE hard disk cable to connecting the motherboard and serial ATA hard disk.



2-6-2 Headers

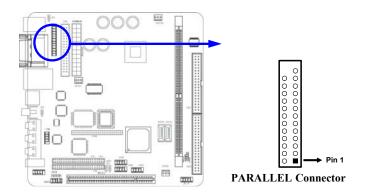
(1) COM2 Serial Port Headers (9-pin) : COM2

This board has two serial port COM1 (Connector)/COM2(Headers), it come with cable providing serial port COM1/COM2. The On-board serial port can be disabled through BIOS SETUP. Please refer to Chapter 3 "INTEGRATED PERIPHERALS SETUP" section for more detail information.

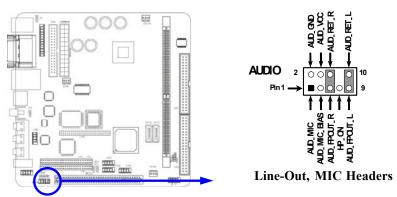


(2) Parallel Port Headers (25-pin Block): Parallel

The On-board Parallel Port can be disabled through the BIOS SETUP. Please refer to Chapter 3 "INTEGRATED PERIPHERALS SETUP" section for more detail information.

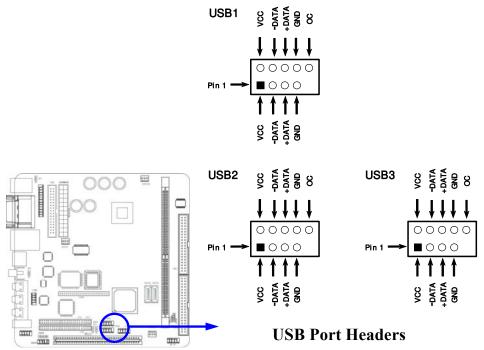


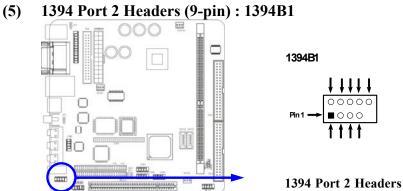
(3) Line-Out, MIC Header (9-pin): AUDIO This header connects to Front Panel Line-out, MIC connector with cable.



(4) USB Port Headers (9-pin) : USB1/USB2/ USB3

These headers are used for connecting the additional USB port plug. By attaching an option USB cable, your can be provided with two additional USB plugs affixed to the back panel.





(6) IDE Activity LED: HD_LED

This connector connects to the hard disk activity indicator light on the case.

(7) Reset switch lead: RESET

This 2-pin connector connects to the case-mounted reset switch for rebooting your computer without having to turn off your power switch. This is a preferred method of rebooting in order to prolong the lift of the system's power supply. See the figure below.

(8) Speaker connector: SPEAK

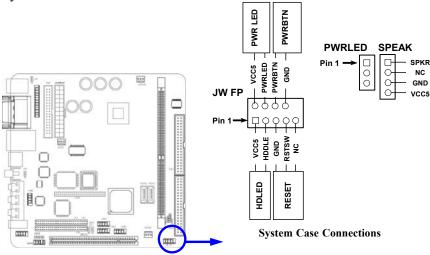
This 4-pin connector connects to the case-mounted speaker. See the figure below.

(9) Power LED: PWR LED

The Power LED is light on while the system power is on. Connect the Power LED from the system case to this pin.

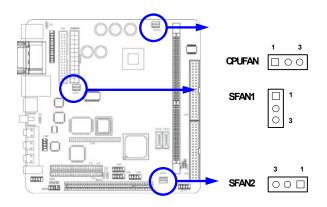
(10) Power switch: PWR BTN

This 2-pin connector connects to the case-mounted power switch to power ON/OFF the system.

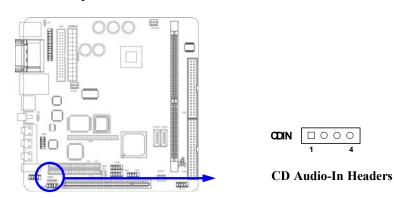


(11) FAN Speed Headers (3-pin) : CPUFAN, SFAN1/SFAN2

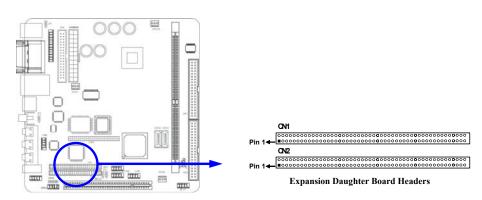
These connectors support cooling fans of 350mA (4.2 Watts) or less, depending on the fan manufacturer, the wire and plug may be different. The red wire should be positive, while the black should be ground. Connect the fan's plug to the board taking into consideration the polarity of connector.



(12) CD Audio-In Headers (4-pin) : CDIN CDIN is the connectors for CD-Audio Input signal. Please connect it to CD-ROM CD-Audio output connector.



(13) Expansion Daughter Board Headers :CN1/CN2 These two Headers can add the COM Port card/ LAN card/ PCMCIA card.



(14) Optional Expansion cards *Expansion Daughter-boards (optional)*



AD2COM For 2xCOM Ports Added



ADPCM

Card Bus Type I + II Supported Expansion Interface With CF Compatible Card Reader



ADRTLAN-P/ ADRTLAN-G For 2nd 10/100 or 10/100/1000 Ethernet LAN

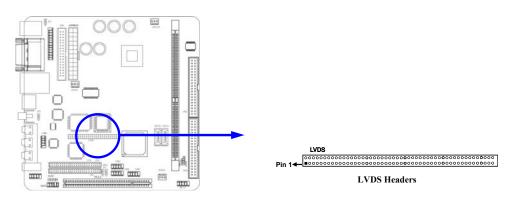


ADCF

IDE Interface Supported CF Compatible Disk On Module

(15) LVDS Headers (4-pin) : LVDS

This 50 pin female header allows you connect to the LCD monitor devices



2-7 Starting Up Your Computer

- 1. After all connections are made, close your computer case cover.
- 2. Be sure all the switch are off, and check that the power supply input voltage is set to proper position, usually in-put voltage is 220V~240V or 110V~120V depending on your country's voltage used.
- 3. Connect the power supply cord into the power supply located on the back of your system case according to your system user's manual.
- 4. Turn on your peripheral as following order:
 - a. Your monitor.
 - b. Other external peripheral (Printer, Scanner, External Modem etc...)
 - c. Your system power. For ATX power supplies, you need to turn on the power supply and press the ATX power switch on the front side of the case.
- 5. The power LED on the front panel of the system case will light. The LED on the monitor may light up or switch between orange and green after the system is on. If it complies with green standards or if it is has a power standby feature. The system will then run power-on test. While the test are running, the BIOS will alarm beeps or additional message will appear on the screen.

If you do not see any thing within 30 seconds from the time you turn on the power. The system may have failed on power-on test. Recheck your jumper settings and connections or call your retailer for assistance.

Веер	Meaning
One short beep when displaying logo	No error during POST
Long beeps in an endless loop	No DRAM install or detected
One long beep followed by three short	Video card not found or video card memory
beeps	bad
High frequency beeps when system is	CPU overheated
working	System running at a lower frequency

- 6. During power-on, press <Delete> key to enter BIOS setup. Follow the instructions in BIOS SETUP.
- 7. **Power off your computer:** You must first exit or shut down your operating system before switch off the power switch. For ATX power supply, you can press ATX power switching after exiting or shutting down your operating system. If you use Windows 9X, click "Start" button, click "Shut down" and then click "Shut down the computer?" The power supply should turn off after windows shut down.

Chapter 3

Introducing BIOS

The BIOS is a program located on a Flash Memory on the motherboard. This program is a bridge between motherboard and operating system. When you start the computer, the BIOS program gain control. The BIOS first operates an auto-diagnostic test called POST (power on self test) for all the necessary hardware, it detects the entire hardware device and configures the parameters of the hardware synchronization. Only when these tasks are completed done it gives up control of the computer to operating system (OS). Since the BIOS is the only channel for hardware and software to communicate, it is the key factor for system stability, and in ensuring that your system performance as its best.

In the BIOS Setup main menu of Figure 3-1, you can see several options. We will explain these options step by step in the following pages of this chapter, but let us first see a short description of the function keys you may use here:

- Press <Esc> to quit the BIOS Setup.
- Press ↑↓ ← → (up, down, left, right) to choose, in the main menu, the option you want to confirm or to modify.
- Press <F10> when you have completed the setup of BIOS parameters to save these parameters and to exit the BIOS Setup menu.
- Press Page Up/Page Down or +/- keys when you want to modify the BIOS parameters for the active option.

3-1 Entering Setup

Power on the computer and by pressing immediately allows you to enter Setup.

If the message disappears before your respond and you still wish to enter Setup, restart the system to try again by turning it OFF then ON or pressing the "RESET" button on the system case. You may also restart by simultaneously pressing <Ctrl>, <Alt> and <Delete> keys. If you do not press the keys at the correct time and the system does not boot, an error message will be displayed and you will again be asked to

```
Press <F1> to continue, <Ctrl-Alt-Esc> or <Del> to enter Setup
```

3-2 Getting Help

Main Menu

The on-line description of the highlighted setup function is displayed at the bottom of the screen.

Status Page Setup Menu/Option Page Setup Menu

Press F1 to pop up a small help window that describes the appropriate keys to use and the possible selections for the highlighted item. To exit the Help Window, press <Esc>.

3-3 The Main Menu

Once you enter Award[®] BIOS CMOS Setup Utility, the Main Menu (Figure 3-1) will appear on the screen. The Main Menu allows you to select from fourteen setup functions and two exit choices. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.

Standard CMOS Features	Miscellaneous Control	
Advanced BIOS Features	Load optimized Defaults	
Advanced Chipset Features	Load Standard Defaults	
Integrated Peripherals	Set Supervisor Password	
Power Management Setup	Set User Password	
PnP/PCI Configurations	Save & Exit Setup	
PC Health Status	Exit Without Saving	
Esc : Quit $\uparrow \downarrow \rightarrow \leftarrow$: Select Item		
F10 : Save & Exit Setup		
Time, Date, Hard Disk Type		

Phoenix - AwardBIOS CMOS Setup Utility

Figure 3-1

Standard CMOS Features

Use this Menu for basic system configurations.

Advanced BIOS Features

Use this menu to set the Advanced Features available on your system.

Advanced Chipset Features

Use this menu to change the values in the chipset registers and optimize your system's performance.

Integrated Peripherals

Use this menu to specify your settings for integrated peripherals.

Power Management Setup

Use this menu to specify your settings for power management.

PnP/PCI configurations

This entry appears if your system supports PnP/PCI.

PC Health Status

This entry shows your PC health status.

Miscellaneous Control

Use this menu to specify your settings for Miscellaneous Control.

Load Optimized Defaults

Use this menu to load the BIOS default values that are factory settings for optimal performances system operations.

Load Standard Defaults

Use this menu to load the BIOS default values for the minimal/stable performance system operation.

Set Supervisor/User Password

Use this menu to set User and Supervisor Passwords.

Save & Exit Setup

Save CMOS value changes to CMOS and exit setup.

Exit Without Saving

Abandon all CMOS value changes and exit setup.

3-4 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. Phoenix - AwardBIOS CMOS Setup Utility

Standard CMOS Features

Date (mm:dd:yy)	Thu, Nov, 27 2003	
Time (hh:mm:ss)	16 : 18 : 49	Item Help
IDE Primary Master		
IDE Primary Slave		Menu Level >
IDE Secondary Master		
IDE Secondary Slave		Change the day, month,
Drive A	1.4M, 3.25 in.	Year and century
Drive B	None	
Video	EGA/VGA	
Halt On	All Errors	
Base Memory	640K	
Extended Memory	64512K	
Total Memory	65536K	
$\uparrow \downarrow \rightarrow \leftarrow$ Move Enter:Select I	tem +/-/PU/PD:Value F10:Save	e ESC:Exit F1:General Help
F5:Previous Value	s F6:Optimized Defaults F	7:Standard Defaults

Date

The date format is <day><month><date><year>.

- **Day** Day of the week, from Sun to Sat, determined by BIOS. Read-only.
- Month The month from Jan. through Dec.
- **Date** The date from 1 to 31 can be keyed by numeric function keys.

Year The year depends on the year of the BIOS.

Time

The time format is <hour><minute><second>.

Primary Master/Primary Slave

Secondary Master/Secondary Slave

Press PgUp/<+>or PgDn/<->to select Manual, None, Auto type. Note that the specifications of your drive must match with the drive table. The hard disk will not work properly if you enter improper information for this category. If your hard disk drive type is not matched or listed, you can use Manual to define your own drive type manually.

If you select Manual, related information is asked to be entered to the following items. Enter the information directly from the keyboard. This information should be provided in the documentation from your hard disk vendor or the system manufacturer.

If the controller of HDD interface is SCSI, the selection shall be "None".

If the controller of HDD interface is CD-ROM, the selection shall be "None"

Access Mode	The settings are Auto Normal, Large, and LBA.
Cylinder	number of cylinders
Head	number of heads
Precomp	write precomp
Landing Zone	landing zone
Sector	number of sectors

3-5 Advanced BIOS Features

Phoenix - AwardBIOS CMOS Setup Utility

Virus Warning	Disabled	Item Help
	Enabled	-
CPU L2 Cache ECC Checking	Disabled	
Quick Power On Self Test	Enabled	Menu Level >
CPU Feature	Press Enter	
Hard Disk Boot Priority	Press Enter	
First Boot Device	Floppy	
Second Boot Device	HDD-0	
Third Boot Device	CDROM	
Boot Other Device	Enabled	
Boot Up Floppy Seek	Enabled	
Boot Up NumLock Status	On	
Typematic Rate Setting	Disabled	
Typematic Rate (Chars/Sec)	6	
Typematic Delay (Msec)	250	
Security Option	Setup	
MPS Version Control For OS	1.4	
OS Select For DRAM > 64MB	Non-OS2	
HDD S.M.A.R.T. Capability	Disabled	
Report No FDD For Windows	Yes	
Video BIOS Shadow	Enabled	
↑↓→← Move Enter:Select Item +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Optimized Defaults F7:Standard Defaults		

Virus Warning

Allows you to choose the VIRUS Warning feature for IDE Hard Disk boot sector protection. If this function is enabled and someone attempt to write data into this area, BIOS will show a warning message on screen and alarm beep.

Disabled (default) No warning message to appear when anything attempts to access the boot sector or hard disk partition table.

Enabled Activates automatically when the system boots up causing a warning message to appear when anything attempts to access the boot sector of hard disk partition table.

CPU L2 Cache ECC Checking

Choose Enabled or Disabled. This option enables the Level 2 cache memory ECC (error check correction).

CPU L1 Cache

The default value is Enabled.Enabled (default)Enable cacheDisabledDisable cacheNote:The L1 cache is built in the processor.

CPU L2 Cache

Choose Enabled or Disabled. This option enables the Level 2 cache memory.

Quick Power On Self-Test

This category speeds up Power On Self Test (POST) after you power on the computer. If this is set to Enabled. BIOS will shorten or skip some check items during POST.

Enabled (default) Enable quick POST

Disabled Normal POST

First/Second/Third/Fourth Boot Device

The BIOS attempts to load the operating system from the devices in the sequence selected in these items. The settings are Floppy, LS/ZIP, HDD-0/HDD-1/HDD-3, SCSI, CDROM, LAN and Disabled.

Swap Floppy Drive

Switches the floppy disk drives between being designated as A and B. Default is Disabled.

Boot Up Floppy Seek

During POST, BIOS will determine if the floppy disk drive installed is 40 or 80 tracks. 360K type is 40 tracks while 760K, 1.2M and 1.44M are all 80 tracks.

Boot Up NumLock Status

The default value is On.

On (default) Keypad is numeric keys.

Off Keypad is arrow keys.

Gate A20 Option

NormalThe A20 signal is controlled by keyboard controller or chipset hardware.Fast (default)The A20 signal is controlled by port 92 or chipset specific method.

Typematic Rate Setting

Keystrokes repeat at a rate determined by the keyboard controller. When enabled, the typematic rate and typematic delay can be selected. The settings are: Enabled/Disabled.

Typematic Rate (Chars/Sec)

Sets the number of times a second to repeat a keystroke when you hold the key down. The settings are: 6, 8, 10, 12, 15, 20, 24, and 30.

Typematic Delay (Msec)

Sets the delay time after the key is held down before is begins to repeat the keystroke. The settings are 250, 500, 750, and 1000.

Security Option

This category allows you to limit access to the system and Setup, or just to Setup.

SystemThe system will not boot and access to Setup will be denied if the
correct password is not entered at the prompt.

Setup (default) The system will boot, but access to Setup will be denied if the correct password is not entered prompt.

OS Select For DRAM > 64MB

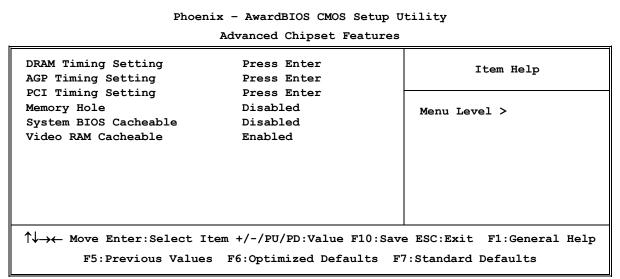
Allows $OS2^{\textcircled{R}}$ to be used with >64MB or DRAM. Settings are Non-OS/2 (default) and OS2. Set to OS/2 if using more than 64MB and running $OS/2^{\textcircled{R}}$.

Report No FDD For Windows

Whether report no FDD for Win 95 or not. The settings are: Yes, No.

3-6 Advanced Chipset Features

The Advanced Chipset Features Setup option is used to change the values of the chipset registers. These registers control most of the system options in the computer.



Note: Change these settings only if you are familiar with the chipset.

DRAM Timing Setting

Please refer to section 3-6-1

AGP Timing Setting

Please refer to section 3-6-2

PCI Timing Setting

Please refer to section 3-6-3

System BIOS Cacheable

Selecting Enabled allows caching of the system BIOS ROM at F0000h-FFFFFh, resulting in better system performance. However, if any program writes to this memory area, a system error may result. The settings are: Enabled and Disabled.

Video BIOS Cacheable

Select Enabled allows caching of the video BIOS, resulting in better system performance. However, if any program writes to this memory area, a system error may result. The settings are: Enabled and Disabled.

3-6-1 DRAM Timing Setting

System performance RAS Active Time	By SPD 13T	Item Help
RAS Precharge Time	3T	
RAS to CAS Delay	Зт	Menu Level >>
DRAM CAS Latency	4 .0 T	
Bank Interleave	Disabled	
Write Recovery Time	51	
DRAM Command Rate	2т	
$\rightarrow \leftarrow$ Move Enter:Select Ite	em +/-/PU/PD:Value F1	0:Save ESC:Exit F1:General Hel
F5. Provious Values	E6. Ontimized Default	ts F7:Standard Defaults

Phoenix - AwardBIOS CMOS Setup Utility

DRAM Timing Setting

DRAM CAS Latency

When synchronous DRAM is installed, the number of clock cycles of CAS latency depends on the DRAM timing. The settings are: 2T, 2.5T and 3T.

RAS Precharge Time

If an insufficient number of cycles is allowed for the RAS to accumulate its charge before DRAM refresh, the refresh may be incomplete and the DRAM may fail to retain date. Fast gives faster performance; and Slow gives more stable performance. This field applies only when synchronous DRAM is installed in the system. The settings are: 2T and 3T.

RAS-to-CAS Delay

This field let's you insert a timing delay between the CAS and RAS strobe signals, used when DRAM is written to, read from, or refreshed. *Fast* gives faster performance; and *Slow* gives more stable performance. This field applies only when synchronous DRAM is installed in the system. The settings are: 2T and 3T.

3-6-2 AGP Timing Settings

Phoenix - AwardBIOS CMOS Setup Utility

	AGP Timing Settings	
AGP Aperture Size	128MB	Item Help
AGP Transfer Mode	8X	-
AGP Driving Control	Auto	
AGP Fast Write	Disabled	Menu Level >>
AGP Master 1 WS Write	Disabled	
AGP Master 1 WS Read	Disabled	
CPU to AGP Post Write	Enabled	
AGP Delay Transaction	Enabled	
AGP3.0 Calibration Cycle	Disabled	
VGA Share Memory Size	64MB	
Direct Frame Buffer	Disabled	
Select Display Device	CRT	
$\uparrow \downarrow \rightarrow \leftarrow$ Move Enter:Select	+/-/PU/PD:Value F10:Save	ESC:Exit F1:General Help
F5:Previous Values	F6:Optimized Defaults	F7:Standard Defaults

3-6-3 PCI Timing Settings

Phoenix - AwardBIOS CMOS Setup Utility

	PCI Timing Settings	
PCI Master 1 WS Write	Disabled	Item Help
PCI Master 1 WS Read	Disabled	icem neip
CPU to PCI Post Write	Enabled	
PCI Delay Transaction	Enabled	Menu Level >>
VLink Mode Selection	BY Auto	
VLink 8X Support	Enabled	
DRDY-Timing	Slowest	
↑↓→← Move Enter:Select F5:Previous Values	+/-/PU/PD:Value F10:Save D F6:Optimized Defaults	

PCI Delay Transaction

The chipset has an embedded 32-bit posted write buffer to support delay transactions cycles. Select Enabled to support compliance with PCI specification version 2.1. The settings are: Enabled and Disabled.

3-7 Integrated Peripherals

Phoenix - AwardBIOS CMOS Setup Utility

Integrated Peripherals

F		
OnChip IDE Function OnChip Device Function	Press Enter Press Enter	Item Help
OnChip SIO Function Init Display First	Press Enter PCI Slot	Menu Level >
		:Save ESC:Exit F1:General Help
F5:Previous Values	F6:Optimized Defaults	s F7:Standard Defaults

OnChip IDE Function

Please refer to section 3-7-1

OnChip Device Function

Please refer to section 3-7-2

OnChip SIO Function

Please refer to section 3-7-3

Init Display First

This item allows you to decide to activate whether PCI Slot or on-chip VGA first. The settings are: PCI Slot, AGP Slot, On-Chip VGA.

3-7-1 OnChip IDE Function

Phoenix - AwardBIOS CMOS Setup Utility

OnChip IDE Function

	-	
OnChip IDE Channel 0 OnChip IDE Channel 1	Enabled Enabled	Item Help
Primary Master PIO	Auto	
Primary Slave PIO	Auto	Menu Level >>
Secondary Master PIO	Auto	
Secondary Slave PIO	Auto	
Primary Master UDMA	Auto	
Primary Slave UDMA	Auto	
Secondary Master UDMA	Auto	
Secondary Slave UDMA	Auto	
IDE DMA Transfer Access	Enabled	
IDE Prefetch Mode	Enabled	
IDE HDD Block Mode	Enabled	
$\uparrow \downarrow \rightarrow \leftarrow$ Move Enter:Select Item +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help		
F5:Previous Values	F6:Optimized Defaults F	7:Standard Defaults

OnChip IDE Channel 0/Channel 1

The integrated peripheral controller contains an IDE interface with support for two IDE channels. Select *Enabled* to activate each channel separately. The settings are: Enabled and Disabled.

Primary/Secondary Master/Slave PIO

The four IDE PIO (Programmed Input/Output) fields let you set a PIO mode (0-4) for each of the four IDE devices that the onboard IDE interface supports. Modes 0 through 4 provide successively increased performance. In Auto mode, the system automatically determines the best mode for each device. The settings are: Auto, Mode 0, Mode 1, Mode 2, Mode 3, Mode 4.

Primary/Secondary Master/Slave UDMA

Ultra DMA/33 implementation is possible only if your IDE hard drive supports it and the operating environment includes a DMA driver (Windows 95 OSR2 or a third-party IDE bus master driver). If your hard drive and your system software both support Ultra DMA/33 and Ultra DMA/66, select Auto to enable BIOS support. The settings are: Auto, Disabled.

IDE HDD Block Mode

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

3-7-2 OnChip Device Function

Phoenix - AwardBIOS CMOS Setup Utility

VIA SATA Function	Enabled	Item Help
VIA SATA/RAID Mode	SATA Mode	Menu Level >>
VIA LAN Function	Enabled	
VIA LAN BootROM	Disabled	
VIA LAN BootROM Boot Option	Hook INT19	
VIA LAN BootROM PXERPL Option	PXE	
Current VIA MAC Address is	003018-xxxxxx	
VIA MAC Address Input	Press Enter	
AC97 Sound Device	Auto	
USB Host Controller	Enabled	
USB 2.0 Support	Enabled	
USB Device Legacy Support	Always Off	
USB Keyboard Legacy Support	Disabled	
USB Mouse Legacy Support	Disabled	
		l
$\uparrow \downarrow \rightarrow \leftarrow$ Move Enter:Select Item +	-/-/PU/PD:Value F10:Save	e ESC:Exit F1:General Help
F5:Previous Values F6	Optimized Defaults F	7:Standard Defaults

OnChip Device Function

AC97 Sound Device

This item allows you to decide to enable/disable the chipset family to support AC97 Audio. The settings are: Enabled, Disabled, Auto.

USB Host Controller

Select *Enabled* if your system contains a Universal Serial Bus (USB) controller and you have a USB peripherals. The settings are: Enabled, Disabled.

USB Keyboard/Mouse Legacy Support

Select *Enabled* if your system contains a Universal Serial Bus (USB) controller and you have a USB keyboard. The settings are: Enabled, Disabled.

3-7-3 Onboard Super IO Function

Phoenix - AwardBIOS CMOS Setup Utility

Onboard Super IO Function

Onboard FDD Controller Onboard Serial Port 1 Onboard Serial Port 2 VART Mode Select Onboard Parallel Port Parallel Port Mode ECP Mode Use DMA	Enabled 3F8/IRQ4 2F8/IRQ3 Normal 378/IRQ7 SPP 3	Item Help Menu Level >>
↑↓→← Move Enter:Select Item +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Optimized Defaults F7:Standard Defaults		

Onboard FDD Controller

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

Onboard Serial Port 1/Port 2

Select an address and corresponding interrupt for the first and the second serial ports. The settings are: 3F8/IRQ4, 2E8/IRQ3, 3E8/IRQ4, 2F8/IRQ3, Disabled, Auto.

Onboard Fast IR

This item allows you to Enabled Fast InfraRed (IR) function of the onboard I/O chip, when enabled this function user must install driver the driver is in CD Pack\VIA\VIAFIR.

Onboard Parallel Port

There is a built-in parallel port on the on-board Super I/O chipset that Provides Standard, ECP, and EPP features. It has the following option:

Disabled(3BCH/IRQ7)/(278H/IRQ5)/(378H/IRQ7)Line Printer port 1

Parallel Port Mode

SPP : Standard Parallel Port

EPP : Enhanced Parallel Port

ECP : Extended Capability Port

SPP/EPP/ECP/ECP+EPP

To operate the onboard parallel port as Standard Parallel Port only, choose "SPP." To operate the onboard parallel port in the EPP modes simultaneously, choose "EPP." By choosing "ECP", the onboard parallel port will operate in ECP mode only. Choosing "ECP+EPP" will allow the onboard parallel port to support both the ECP and EPP modes simultaneously. The ECP mode has to use the DMA channel, so choose the onboard parallel port with the ECP feature. After selecting it, the following message will appear: "ECP Mode Use DMA" at this time, the user can choose between DMA channels 3 to 1. The onboard parallel port is EPP Spec. compliant, so after the user chooses the onboard parallel port with the ECP function, the following message will be displayed on the screen: "EPP Mode Select." At this time either EPP 1.7 spec. or EPP 1.9 spec. can be chosen.

3-8 Power Management Setup

The Power Management Setup allows you to configure your system to most effectively save energy saving while operating in a manner consistent with your own style of computer use.

Phoenix - AwardBIOS CMOS Setup Utility			
	Power Management Setup		
ACPI Function Video Off Option Video Off Method MODEM Use IRQ	Enabled Always Off V/H SYNC+Blank 3	Item Help Menu Level >	
Power Button Function State after Power Failure > Wake Up Events	Instant Off Always Off Press Enter		
↑↓→← Move Enter:Select Item +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Optimized Defaults F7:Standard Defaults			

ACPI Function

This item allows you to Enabled/Disabled the Advanced Configuration and Power Management (ACPI). The settings are Enabled and Disabled.

Video Off Method

This determines the manner in which the monitor is blanked.

V/H SYNC+Blank	This selection will cause the system to turn off the vertical and		
(Default)	horizontal synchronization ports and write blanks to the video		
	buffer.		
Blank Screen	This option only writes blanks to the video buffer.		
DPMS	Initial display power management signaling.		

Modem Use IRQ

This determines the IRQ in which the MODEM can use. The settings are: 3, 4, 5, 7, 9, 10, 11, NA.

Power Button Function

Pressing the power button for more than 4 seconds forces the system to enter the Soft-Off state. The settings are: Delay 4 Sec, Instant-Off.

State After Power Failure

This determines the manner when the power recovery after power failure. The setting are: Always Off, Always On.

3-8-1 Wake Up Events

VGA LPT&COM	Wake Up Events Off LPT/COM	Item Help
HDD&FDD PCI Master Wake-Up on Ring/LAN Wake-Up on PCI PME PS2KB Wakeup Selection Wake-up on hot key(PS2KB) Wake-up on USB Devices Wake-Up on RTC Alarm > IRQS Activities	ON OFF Disabled Disabled Hot Key	Menu Level >>
↑↓→← Move Enter:Select Item F5:Previous Values F	+/-/PU/PD:Value F10:Sa F6:Optimized Defaults	

Phoenix - AwardBIOS CMOS Setup Utility

Wake Up by PCI PME

This will enable the system to wake up to PCI LAN Card. The settings are: Enabled and Disabled.

Power On by Ring/LAN

During Disabled, the system will ignore any incoming call from the modem/LAN. During Enabled, the system will boot up if there's an incoming call from the modem/LAN.

Wake-Up on RTC Alarm

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

Date(of month) Alarm

You can choose which month the system will boot up. Set to 0, to boot every day.

Time(hh:mm:ss) Alarm

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

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

3-9 PnP/PCI Configuration Setup

This section describes configuring the PCI bus system. PCI, or **P**ersonal Computer Interconnect, is a system which allows I/O devices to operate at speeds nearing the speed 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.

Phoenix - AwardBIOS CMOS Setup Utility PnP/PCI Configurations

> IRQ Resources	Press Enter	Item Help
PCI/VGA Palette Snoop	Disabled	
↑↓→← Move Enter:Select Item +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Optimized Defaults F7:Standard Defaults		

Reset Configuration Data

Normally, you leave this field 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 operating system can not boot. The settings are: Enabled and Disabled.

Resource Controlled By

The Award Plug and Play BIOS has the capacity to automatically configure all of the boot and Plug and Play compatible devices. However, this capability means absolutely nothing unless you are using a Plug and Play operating system such as Windows[®]95/98. If you set this field to "manual" choose specific resources by going into each of the sub menu that follows this field (a sub menu is preceded by a ">"). The settings are: Auto(ESCD), Manual.

IRQ Resources

When resources are controlled manually, assign each system interrupt a type, depending on the type of device using the interrupt.

PCI/VGA Palette Snoop

Leave this field at *Disabled*. The settings are Enabled, Disabled.

3-10 PC Health Status

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This section shows the Status of you CPU, Fan, Warning for overall system status. This is only available if there is Hardware Monitor onboard. Phoenix - AwardBIOS CMOS Setup Utility

PC	Health	Status		

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		_	
Shutdown Temperature	Disabled	Item Help	
Current Thermal-Throttling	Disabled		
Current Thermal-Throttling Temp	70		
Current Thermal-Throttling Duty	50.00%	Menu Level >	
Current Thermal-Throttling Beep	Enabled		
Show PC Healthy in Post	Enabled		
Vcore	1.07V		
VDIMM	1.90V		
+3.3V	3.26V		
+5V	5.00V		
+12V	11.96V		
3VSB	3.33V		
VBat	3.28V		
5VSB	4.91V		
CPU Temperature	48/118F		
System Temperature	35/95F		
CPUFAN	6849RPM		
SFAN1	ORPM		
SFAN2	ORPM		
↓ ↓→← Move Enter:Select Item +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Optimized Defaults F7:Standard Defaults			

Current FAN1, FAN2 Speed/CPU Vcore/3.3V/+12V/Internal VCC

This will show the CPU/FAN/System voltage chart and FAN Speed.

3-11 Miscellaneous Control

This section is for setting CPU Miscellaneous Control.

Phoenix - AwardBIOS CMOS Setup Utility

Miscellaneous	Control
MISCEITAMEOUS	CONCLOX

Auto Detect PCI Clock Spread Spectrum ** Current Host Clock	Enabled Disabled 100MHz	Item Help
Host Clock at Next Boot ** Current DRAM CLOCK	100MHZ 266MHz **	Menu Level >
DRAM Clock at Next Boot VDIMM Select VAGP Select Flash Part Write Protect	266MHz(By SPD) 1.90V(Default) 1.55V(Default) Disabled	
$\uparrow \downarrow \rightarrow \leftarrow \text{Move Enter:Select Item}$ F5:Previous Values E	+/-/PU/PD:Value F10:Sa 6:Optimized Defaults 1	