



The Soul Of Computer Technology

SL-56H5 / H1 USER MANUAL

USER NOTICE

Product Model	: SL-56H5 / H1
Manual Revision	: V1.0
Release Date	: February 2000

This User's Guide & Technical Reference is for assisting system manufacturers and end-users in setting up and installing the mainboard.

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CHAPTER 1

INTRODUCTION

1-1 ITEM LIST CHECKUP

- Soltek Motherboard
- Soltek Support CD
- Soltek User's Manual
- Soltek 2-in-1 Bonus Pack CD
- Soltek 2-in-1 Bonus Pack Manual
- 1.44MB floppy ribbon cable
- Ribbon cable for master and slave UltraDMA/33&UltraDMA/66 IDE devices

1-2 CPU

- Supports Intel Pentium MMX CPUs at 166 ~ 233MHz.
- Supports Cyrix 6x86(L) CPUs at PR133+ ~ PR200+.
- Supports Cyrix 6x86(MII) CPUs at 300 ~ 466.
- Supports AMD K6-2 CPUs at 300 ~ 550MHz.
- Supports AMD K6-III CPUs at 400 ~ 550MHz.
- Supports IDT C6 CPUs at 200 ~ 300MHz.
- Supports 66/ 75/ 83/ 95/ 97/ 100/ 112/ 133 MHz CPU clock.

1-3 CHIPSET

- VIA Apollo MVP3 chipset.
- VIA 686A south bridge chip that supports UATA33/66, Hardware Monitor function.
- PCI Rev 2.1 and APM 1.1/1.2 compliant.
- AGP v2.0(1x, 2x transfer mode) compliant.

1-4 MEMORY CAPABILITY

- Memory range from 4MB(minimum) to 768MB(maximum) with DRAM Table Free configuration.
- Supports SDRAM with 8ns / 10ns.

- Provides 3 pcs of 168pin DIMM sockets(**3.3V** unbuffered 4 clock type).

1-5 BIOS DESCRIPTION

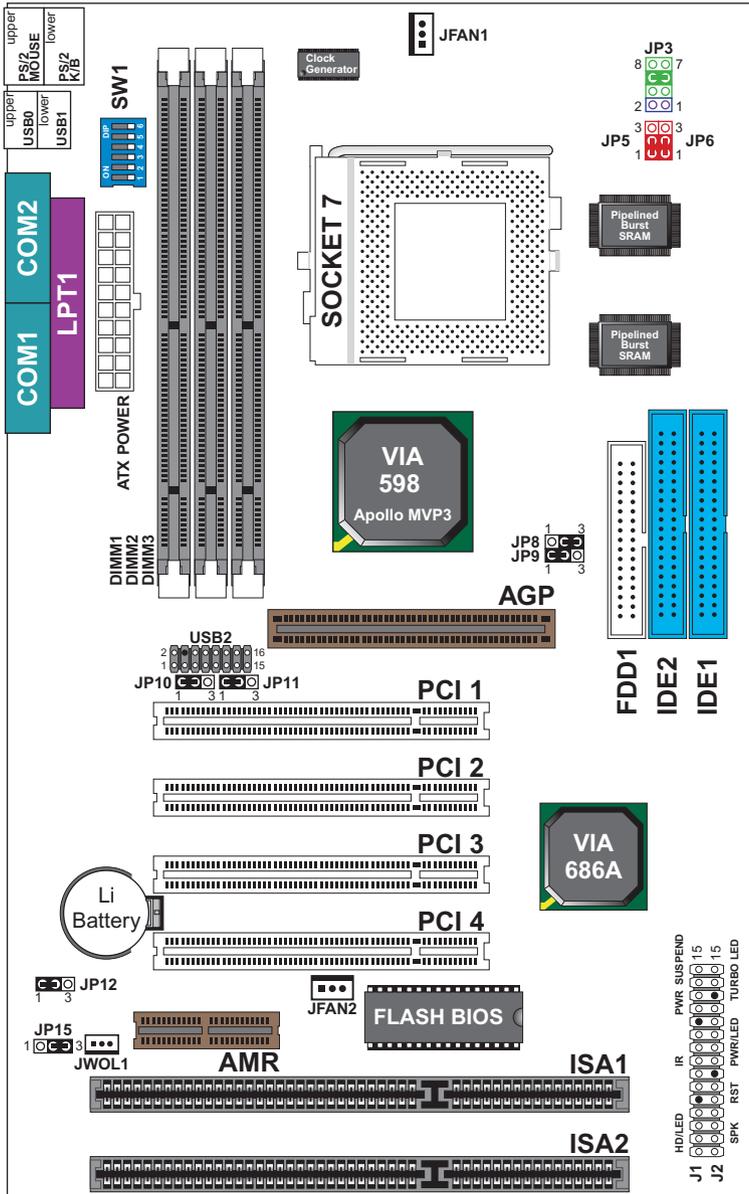
- Award BIOS.
- Supports Plug & Play (PnP).
- FLASH MEMORY for easy upgrade.
- Supports Advanced Power Management (APM) Rev 1.2 function.
- Supports Advanced Configuration Power Management Interface (ACPI) Rev 1.0 function.
- Year 2000 compliant.

1-6 MOTHERBOARD DESCRIPTION

- Built-in onboard **512K(56H5) / 1MB(56H1)** write back cache with Piplelined Burst SRAMs.
- ATX form factor with 18.5cm x 30.5cm.
- 4 PCI Master slots, 2 ISA slots, 1 AGP slot, 1 AMR slot.
- One floppy port supports up to 2.88MB.
- 4x Built-in USB(Universal Serial Bus) controller.
- Ultra ATA33/66 bus master IDE supports up to 4 IDE devices. (Including ZIP / LS-120 floppy devices)
- 2x 16550A Built-in fast UART compatible serial port connectors.
- Built-in SPP / EPP / ECP parallel port connectors.
- Built-in standard IrDA TX / RX header.
- Peripherals boot function with ATX power.
- Supports WOL(Wake On LAN) function. (To support WOL function, the ATX power supply must support at least **5V** standby voltage and **720mA** current.)
- Supports Modem Ring Up function.
- Supports SCSI CD-ROM boot up function.
- Supports Power Lost Resume function.
- Integrated Hardware Monitor function.

1-7 MOTHERBOARD LAYOUT

• Motherboard Default Setting: AMD K6-2 350/100MHz



WATCH OUT !!!

1. Please refer to your processor installation or other documentation attached with your CPU for detailed installing instruction.
2. Installing a heat sink and cooling fan is necessary for proper heat dissipation from your CPU. Uncorrected installation may result in overheating and damage of your CPU.
3. Before changing the setting of CPU Vcore from BIOS program, user SHOULD make sure of correct specification both of CPU CLOCK and RATIO. Uncorrected setting may cause damage to your CPU.

CHAPTER 2

HARDWARE SETUP

2-1 VOLTAGE ADJUSTMENT

• CPU Vcore Setting

Vcore Voltage	JP3	Vcore Voltage	JP3	Vcore Voltage	JP3	Vcore Voltage	JP3
2.0V		2.4V K6-III		2.8V MMX, 6x86L		3.2V K6-2 233	
2.1V		2.5V		2.9V K6 166/200 6x86MX(MII)		3.3V IDT C6	
2.2V K6-2 400 (or below)		2.6V		3.0V		3.4V	
2.3V		2.7V		3.1V		3.5V Pentium (P54C), 6x86, K5	

• CPU Bus Clock Setting

CPU CLOCK SELECT		
66MHz	75MHz	83MHz
ON OFF	ON OFF	ON OFF
ON OFF	ON OFF	ON OFF
ON OFF	ON OFF	

NOTE: Only new clock generator(W83194R-58A) supports 95MHz/ 97MHz. Please check with your dealer before using this clock.

• CPU Bus Ratio Setting

CPU BUS RATIO SELECT			
2.0x / 6.0x	2.5x	3.0x	1.5x / 3.5x
ON  1 2 3 4 5 6	ON  1 2 3 4 5 6	ON  1 2 3 4 5 6	ON  1 2 3 4 5 6
4.0x	4.5x	5.0x	5.5x
ON  1 2 3 4 5 6	ON  1 2 3 4 5 6	ON  1 2 3 4 5 6	ON  1 2 3 4 5 6

2-2 JUMPERS SETTING

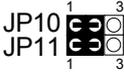
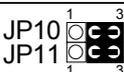
• FAN#: Onboard FAN(12V) Connector

JFAN#	FUNCTION
JFAN1	CPU FAN
JFAN2	SYSTEM FAN

• JP5 / JP6: CPU Single / Dual Voltage Select

Voltage Type	JP5 / JP6
Single Voltage (Intel Pentium P54C, Cyrix 6x86, AMD K5, IDT C6)	
Dual Voltage (Intel Pentium-MMX, Cyrix MII / 6x86L, AMD K6-2 / K6-2+ / K6-III)	

• JP10 / JP11: USB Port Select

USB Port	JP10 / JP11
Redirect USB port2 to USB connector (default)	
Redirect USB port2 to AGP	

• JP12: Clear CMOS Data

CMOS Status	JP12
Clear CMOS Data	
Retain Data (default)	

• JP15: Power Lost Resume

This jumper allows user to use the switch of ATX power supply to control ON/OFF switch directly instead of using the power switch on the motherboard.

Power Lost Resume	JP15
Normal (default)	
Enabled	

NOTE: This feature must work with BIOS. Please refer to the BIOS "Power On After PWR-Fail" sector.

• JWOL1: Wake On LAN(WOL) Connector

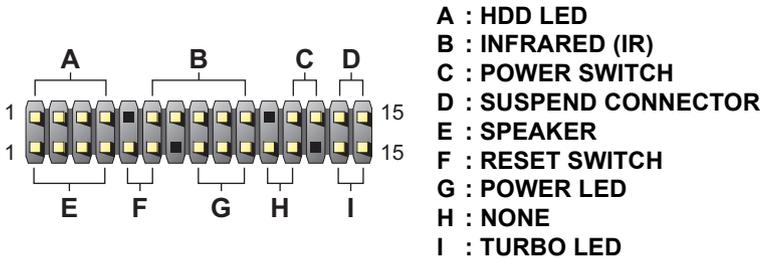
This jumper is designed to use LAN to boot up the system. Connect the wake on signal from LAN card to this connector.

NOTE: For support WOL function, the ATX power supply must support at least 5V standby voltage / 720mA current.

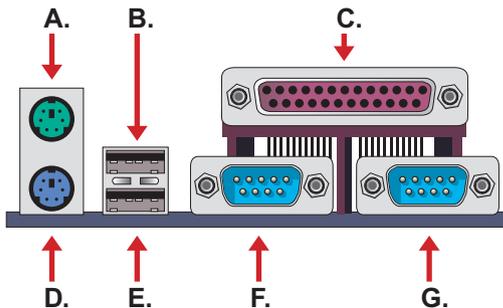
2-3 CONNECTORS

- In this sector we list all external connectors that user may use.

2-3.1 J2 / J3



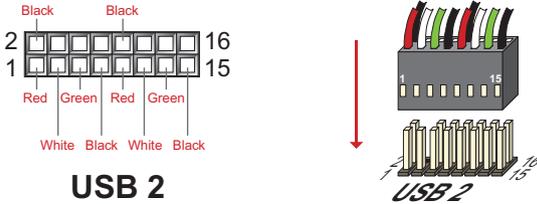
2-3.2 EXTERNAL CONNECTOR



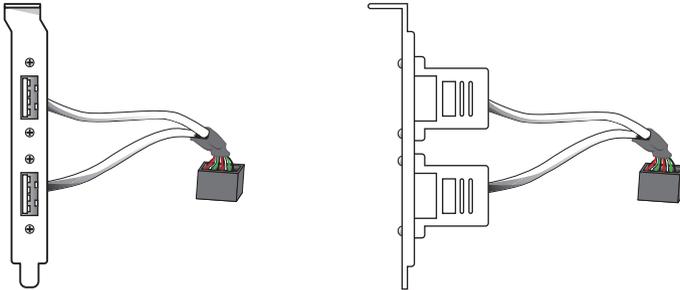
- A : PS/2 MOUSE CONNECTOR
 B : USB 0 CONNECTOR
 C : LPT1 CONNECTOR
 D : PS/2 KEYBOARD CONNECTOR
 E : USB 1 CONNECTOR
 F : COM2
 G : COM1

2-3.3 2nd USB CONNECTOR

- This motherboard provides 4 sets of USB connector. Besides 2 sets of them can be connected directly by USB device, the others are built onboard for user to extend the use.



PIN	SIGNAL	PIN	SIGNAL
PIN 1	Vcc (Red)	PIN 2	GND (Black)
PIN 3	DO- (White)	PIN 4	N/A
PIN 5	DO+ (Green)	PIN 6	N/A
PIN 7	GND (Black)	PIN 8	N/A
PIN 9	Vcc (Red)	PIN 10	GND (Black)
PIN 11	D1- (White)	PIN 12	N/A
PIN 13	D1+ (Green)	PIN 14	N/A
PIN 15	GND (Black)	PIN 16	N/A

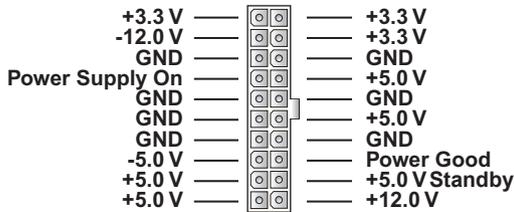


Soltek 2nd USB Connector (Optional)

- When plugs the 2nd USB connector to USB2 port, user can see every color of wires to determine which is the first pin.

2-3.4 ATX POWER SUPPLY CONNECTOR

- This connector connects to an ATX power supply. The plug from the power supply only inserts in an orientation because of the different hole sizes. Find the proper orientation and push down firmly making sure that all pins are aligned.
- Reminding that your power supply should support at least 10mA on the 5V standby voltage. It may cause an difficulty to power on the system if the power supply can't support the load.
- For Wake On LAN function, the power supply should support at least 720mA current.



CHAPTER 3

SOFTWARE SETUP

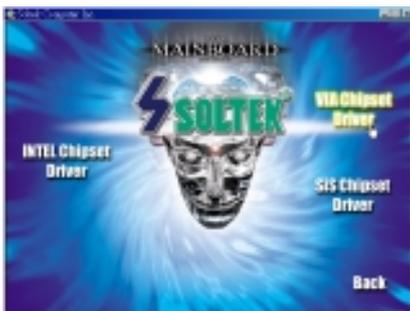
3-1 ABOUT SOLTEK SUPPORT CD

- In Soltek support CD, it contains most informations for user's requirement, such as Acrobat Reader, BIOS, User's Manual, Driver, Hardware Monitor, Patch and Utility etc,. User can browse the CD and get further details in regard of your motherboard. Of course, if you want to receive the newest message about your motherboard, you can browse our web site to get it.

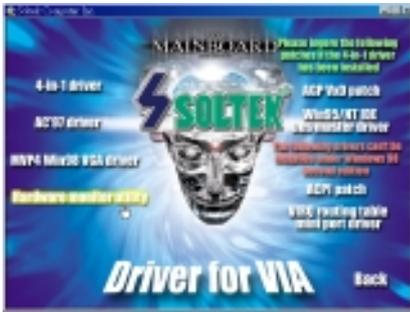
3-2 HARDWARE MONITOR INSTALLATION



- Please put the CD attached to motherboard into the CD-ROM.
- There appears a welcome window as left screen.
- Click on "INSTALL DRIVER" item.



- Click on the "INSTALL VIA CHIPSET DRIVER".



- Click on the “INSTALL Hardware Monitor Utility”.



- Press Next to continue.



- The default setup destination is C:\VIAhm, press Next to continue.

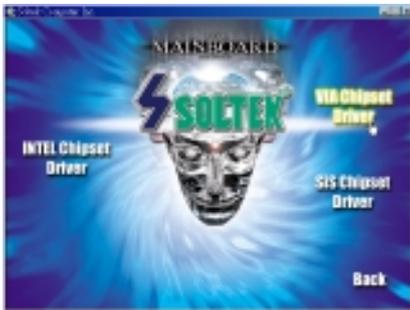


- Press Next to finish the VIA Hardware Monitor setup process.

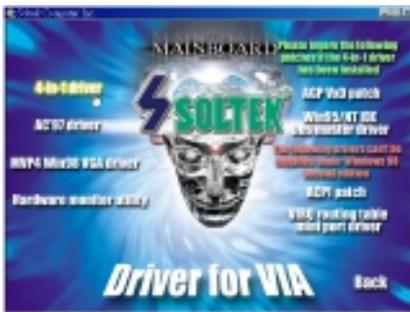
3-3 VIA CHIPSET DRIVER INSTALLATION (4-in1 Driver)



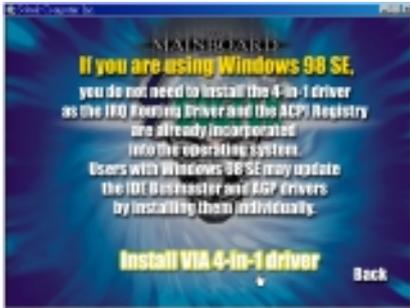
- Please put the CD attached to motherboard into the CD-ROM.
- There appears a welcome window as left screen.
- Click on “INSTALL DRIVER “ item.



- Click on the “INSTALL VIA CHIPSET DRIVER “.



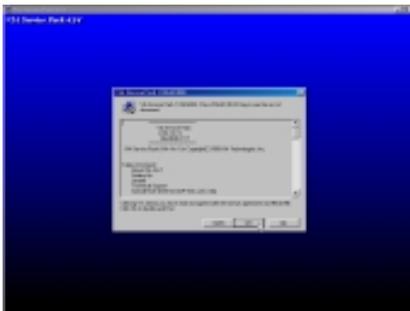
- Click on the “INSTALL 4-in-1 Driver “.



- Click on “ Install 4in1 Driver” to continue.



- Press “ Next “ to continue.



- Press “ Yes “ to continue.



- Please select the checkbox as below.

- Bus Master PCI IDE Driver
- AGP VxD Driver
- VIA Chipset Function's Registry
- IRQ Routing Miniport Driver

Note: In Windows 95/98 environment, user doesn't need to add "VIA Chipset Functions' Registry" and "IRQ Routing Miniport Driver" items.



- Press Install to continue.



- We do not recommend user to select " Enable/Disable [Ultra] DMA "

Note: Whether select this item or not, user has to enable the Hard Disk DMA function in Control Panel manually.
(For further details, please refer to next page)



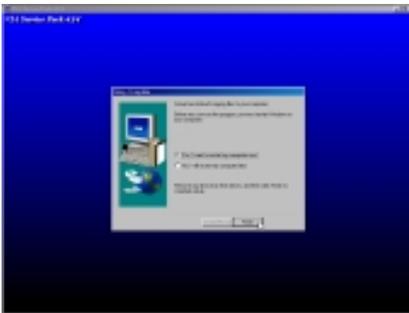
- The default setup destination is C:\VIADMATool, press Next to continue.



- Press Next to continue.



- Select “ Install VIA AGP VxD in turbo mode”.



- After all the setup process is finished, please restart your computer by clicking on Finish.

About Hard Disk DMA Function

Last but not least, user has to enable the Hard Disk DMA function. The process is below:

1. [Start] ⇒ [Setting] ⇒ [Control Panel] ⇒ [System] ⇒ [Device Manager]
2. In Device Manager, select [Disk Drivers] ⇒ [GENERIC IDE TYPEXX]
3. Select [Properties] for GENERIC IDE TYPEXX
4. In Properties, select [Settings]
5. In Options item, select the DMA checkbox
6. Restart your computer

CHAPTER 4

BIOS SETUP

4-1 INTRODUCE THE BIOS

- BIOS stands for Basic Input Output System. It is sometimes call ROM BIOS because it is stored in a Read-Only Memory (ROM) chip on the motherboard. BISO is the first program to run when you turn on your computer.
- BIOS performs the followin functions:
 1. Initializing and testing hardware in your computer (a process called "POST", for Power On Self Test)
 2. Loading and running your operating system.
 3. Managing SETUP for making changes in your computer.
 4. Helping your operating system and application programs to manage your PC hardware by means of a set of routiness called BIOS Run-Time Services.

4-2 WHAT IS BIOS SETUP

- Setup is an interactive BIOS program that you need to run when:
 1. Changing the hardware on your system. (for example: installing a new Hard Disk, etc.)
 2. Modifying the behavior of your computer. (for example: changing the system time or date, or turning special features on or off, etc.)
 3. Enhancing your computer's behavior. (for example: speeding up performance by turning on shadowing or caching.)

4-3 HOW TO RUN BIOS SETUP

- One way of running SETUP is to press a special function key or key combination during POST, before the operating system is loaded During POST, the BIOS usually displays a prompt such as:

Press DEL to enter SETUP

4-4 WHAT IS CMOS

- CMOS is a special kind of memory maintained by a battery after you turn your computer off. The BIOS uses CMOS to store the settings you selected in SETUP. The CMOS also maintains the internal clock. Every time you turn on your computer, the BIOS looks in CMOS for the settings you selected and configures your computer accordingly. If the battery charge runs too low, the CMOS content will be lost and POST will issue a “CMOS invalid” or “CMOS checksum invalid” message. If this happens, you may have to replace the battery. After the battery is replaced, the proper settings will need to be stored in SETUP.

4-5 WHAT IS POST

- POST is an acronym for Power On Self Test. It is a traditional name for the routines that the BIOS uses to test and initializes the devices on your system when the PC is powered on. Its meanings has grown to include anything the BIOS does before the operating system is started. Each of POST routines is assigned a POST code, an unique number which is sent to I/O port 080h before the routine is executed.

4-6 UPDATE THE BIOS

- **AWDFLASH.EXE** is a Flash EPROM Programming utility that updates the BIOS by uploading a new BIOS file to the programmable flash ROM on the motherboard. This file only works in DOS mode. To determine the BIOS version, check the release date displayed on the top of your screen during bootup. Newer dates represents a newer BIOS file.

4-6.1 BEFORE UPDATE THE BIOS

- It is recommended that you save a copy of the original motherboard BIOS along with a Flash EPROM Programming Utility (AWDFLASH.EXE) to a bootable floppy disk in case you need to reinstall the BIOS later.

4-6.2 UPDATE YOUR BIOS

1. Specify **FLOPPY** as the first device in the bootup sequence from the BIOS setup.
2. Put a empty 1.44” floppy disk into the floppy drive A:\.
3. Type **FORMAT A:\ /S** at the DOS prompt to create a bootable system floppy disk.
4. Put the Supplier CD into the CD-ROM drive, assuming that D:\ is

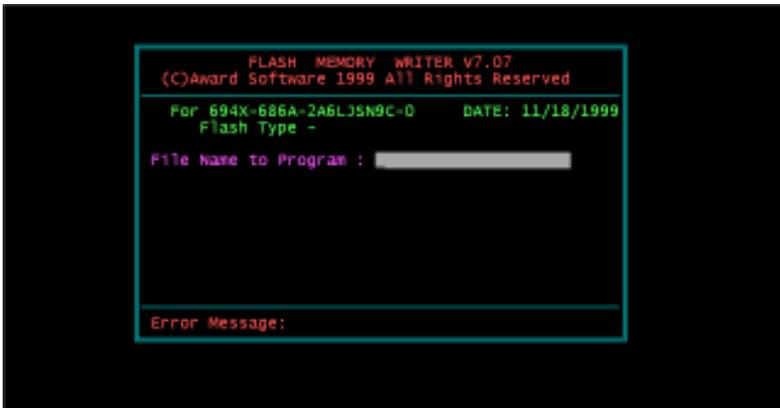
your CD-ROM drive.

5. Type `COPY D:\UTILITY\AWDFLASH.EXE A:` to copy the file `AWDFLASH.EXE` from CD-ROM to floppy disk,
6. Reboot your system from the floppy disk.
7. In the DOS mode, type `awdf flash xxx.bin /sn/py/cc/r` and then press <Enter> to run flash program. (xxx.bin is depended on your motherboard model)

The parameters of AWDFLASH.EXE
 /sn : No original BIOS backup
 /py : Program flash memory
 /cc : Clear CMOS data after programming
 /r : Reset system after programming

NOTE: User can type `AWDFLASH /?` to get further details about parameters. Wrong usage of parameter will damage the BIOS information, so that we strongly recommend user to leave parameters away unless you realize them.

8. Then appears a program window as below:



9. After updated, the system will reboot automatically.
10. Attention! You will see a message “ **CMOS checksum error - Defaults loaded** “ during booting. Please press to run BIOS program, then reload “**LOAD SETUP DEFAULTS**” and save it.

4-6.3 COMMON ERRORS

- **Insufficient memory:**

It means that there may be one or more memory managers have been loaded from floppy disk during booting. For solving this error, please

prefer the former page step 2. to format a pure bootable floppy disk.

- **BIOS part number doesn't match:**

When the BIOS chip is damaged, it will trigger this error. The only way to solve it is to change a new BIOS chip.

4-7 CMOS SETUP UTILITY

This VIA82C693A chipset Apollo Pro-Plus comes with the AWARD BIOS from AWARD Software Inc. Enter the AWARD BIOS program Main Menu by:

1. Turn on or reboot the system. After a series of diagnostic checks, the following message will appear:

PRESS TO ENTER SETUP

2. Press the key and the main program screen will appear as follows:
3. Using the arrows on your keyboard, select an option, and press <Enter>. Modify the system parameter to reflect the options installed in your system.
4. You may return to the Main Menu anytime by pressing <ESC>.
5. In the Main Menu, "SAVE AND EXIT SETUP" saves your changes and reboots the system, and "EXIT WITHOUT SAVING" ignores your changes and exits the program.

ROM PCI / ISA BIOS (2A6LGSN9)
CMOS SETUP UTILITY
AWARD SOFTWARE, INC.

STANDARD CMOS SETUP	INTEGRATED PERIPHERALS
BIOS FEATURES SETUP	SUPERVISOR PASSWORD
CHIPSET FEATURES SETUP	USER PASSWORD
POWER MANAGEMENT SETUP	IDE HDD AUTO DETECTION
PNP/PCI CONFIGURATION	SAVE & EXIT SETUP
LOAD SETUP DEFAULTS	EXIT WITHOUT SAVING
Esc : Quit F10 : Save & Exit Setup	
↑ ↓ → ← : Select Item (Shift) F2 : Change Color	

4-7.1 STANDARD CMOS SETUP

Standard CMOS Setup allows you to record some basic system hardware configuration and set the system clock and error handling. You only need to modify the configuration values of this option when you change your system hardware configuration or the configuration stored in the CMOS memory gets lost or damaged.

Run the Standard CMOS Setup as follows:

1. Choose "STANDARD CMOS SETUP" from the Main Menu and a screen with a list of options will appear.
2. Use one of the arrow keys to move between options and modify the selected options by using PgUp/PgDn/+/- keys.

ROM PCI/ISA BIOS (2A6LGSNC)
STANDARD CMOS SETUP
AWARD SOFTWARE, INC.

Date (mm:dd:yy) : Tue, Oct 19 1999		Time (hh:mm:ss) : 15 : 6 : 26	
HARD DISK	TYPE	SIZE	CYLS HEAD PRECOMP LANDZ SECTOR MODE
Primary Master	: Auto	0M	0 0 0 0 0 AUTO
Primary Slave	: Auto	0M	0 0 0 0 0 AUTO
Secondary Master	: Auto	0M	0 0 0 0 0 AUTO
Secondary Slave	: Auto	0M	0 0 0 0 0 AUTO
Drive A	: 1.44, 3.5 in.		
Drive B	: None		
Video	: EGA/VGA		
Halt On	: All Errors		
		Base Memory : 640K Extended Memory : 64512K Other Memory : 384K <hr/> Total Memory : 65536K	
Esc : Quit	↑ ↓ → ← : Select Item		PU/PD/+/- : Modify
F1 : Help	(Shift) F2 : Change Color		

Date (mm:dd:yy) Time (hh:mm:ss)	Set the current date and time.
Primary (Secondary)	This field records the specification for all non-SCSI Hard Disk Drives installed in your system. Refer to the respective documentation on how to install the drives.
Drive A / B	Set the field to the type(s) of Floppy Disk drive(s) installed in your system. The choice: 360KB, 5.25in. 1.2MB, 5.25in. 720KB, 3.5in. 1.44MB, 3.5in. 2.88MB, 3.5in.
Video	Set the field to the type of video display card installed in your system. The choice: Monochrome, Color 40x25, EGA / VGA, (default) Color 80x25
Halt On	Set this warning feature for the type of errors that will cause the system to halt. The choice: All Errors, (defaults) No Errors, All But Keyboard, All But Diskette, All But Disk / Key

3. Press <ESC> and follow the screen instructions to save or disregard your setting.

4-7.2 BIOS FEATURES SETUP

BIOS Features Setup allows you to improve your system performance or set up system features according to your preference.

Run the BIOS Features Setup as follows:

1. Choose "BIOS FEATURES SETUP" from the Main Menu and a screen with a list of options will appear.

ROM PCI/ISA BIOS (2A6LGSNC)
BIOS FEATURES SETUP
AWARD SOFTWARE, INC.

Virus Warning	: Disabled	Video BIOS Shadow	: Enabled
CPU Internal Cache	: Enabled	C8000-CBFFF Shadow	: Disabled
External Cache	: Enabled	CC000-CFFFF Shadow	: Disabled
CPU L2 Cache ECC Checking	: Enabled	D0000-D3FFF Shadow	: Disabled
Quick Power On Self Test	: Enabled	D4000-D7FFF Shadow	: Disabled
Boot Sequence	: A,C,SCSI	D8000-DBFFF Shadow	: Disabled
Swap Floppy Drive	: Disabled	DC000-DFFFF Shadow	: Disabled
Boot Up Floppy Seek	: Disabled	Cyrix 6x86/MII CPU ID	: Enabled
Boot Up NumLock Status	: On		
IDE HDD Block MODE	: Enabled		
Gate A20 Option	: Fast		
Memory Parity/ECC Check	: Disabled		
Typematic Rate Setting	: Disabled		
Typematic Rate (Chars/Sec)	: 6		
Typematic Delay (Msec)	: 250		
Security Option	: Setup	ESC : Quit	↑ ↓ → ← : Select Item
PCI/VGA Palette Snoop	: Disabled	F1 : Help	PU/PD/+/- : Modify
OS Select For DRAM > 64MB	: Non-OS2	F5 : Old Value	(Shift)F2 : Color
Report No FDD For WIN 95	: No	F7 : Load Setup Defaults	

2. Use one of the arrow keys to move between options and modify the selected options by using PgUp/PgDn/+/- keys. An explanation of the <F>keys follows:

<F1>: "Help" gives options available for each item.

<Shift> + <F2>: Change BIOS screen color.

<F5>: Get the previous values. These values are the values with the user started in the current session.

<F6>: Load all options with the BIOS default values.

<F7>: Load all options with the Setup default values.

Virus Warning	<hr/> <p>Enabled: Activates automatically when the system boots up causing a warning message to appear if there is anything attempting to access the boot sector or Hard Disk partition table.</p> <p>Disabled: No warning message will appear when there is something attempting to access the boot sector or Hard Disk partition table.</p> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <p><i>Note: Many diagnostic (or boot manager) programs which attempt to access the boot sector table can cause the above warning message. If you will be running such a program, we recommend that you disable the virus protection first.</i></p> </div>
CPU Internal Cache	<hr/> <p>Choose Enabled (default) or Disabled. This option allows user to enable or disable the CPU internal cache.</p>
External Cache	<hr/> <p>Choose Enabled (default) or Disabled. This option allows user to enable or disable the external cache memory.</p>
CPU L2 Cache ECC Checking	<hr/> <p>Choose Enabled (default) or Disabled.</p>
Quick Power On Self	<hr/> <p>Choose Enabled (default) or Disabled. This option allows user to speed up the Power-On-Self-Test routine.</p>
Boot Sequence	<hr/> <p>Default is "A , C, SCSI". This option determines which drive to boot at first for an operating system.</p>
Swap Floppy Drive	<hr/> <p>This option swaps floppy driver assignments when it's enabled. The choice: Enabled, Disabled (default).</p>
Boot Up Floppy Seek	<hr/> <p>Enabled (default): During POST, BIOS checks the track number for Floppy Disk drive to see whether it's 40 or 80 tracks.</p> <p>Disabled: During POST, BIOS will not check the track number for Floppy Disk drive.</p>

Boot Up NumLock Status	<hr/> <p>On (default): Activate the NumLock function at boot up. Off: Close the NumLock function at boot up.</p>
IDE HDD Block Mode	<hr/> <p>Choose Enabled (default) or Disabled. If your Hard Disk size is larger than 540MB, choose Enabled, and if you are using the IDE HDD Auto Detection option, the BIOS will choose this option automatically.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p><i>Note: Some older model Hard Disk drives do not provide this function.</i></p> </div>
Gate A20 Option	<hr/> <p>Choose Normal or Fast (default): This option allows the RAM to access the memory above 1MB by using the fast gate A20 line.</p>
Memory Parity / ECC	<hr/> <p>Choose Enabled or Disabled.</p>
Typematic Rate Setting	<hr/> <p>Choose Enabled or Disabled (default): Enable this option to adjust the deystroke repeat rate.</p>
Typematic Rate (Char / Sec)	<hr/> <p>Range between 6 (default) and 30 characters per second. This option controls the speed of repeating keystrokes.</p>
Typematic Delay (Msec)	<hr/> <p>Choose 250 (default), 500, 750 and 1000. This option sets the time interval for displaying the first and the second characters.</p>
Security Option	<hr/> <p>Choose System or Setup (default). This option prevents unauthorized system boot up or use of BIOS Setup.</p>
PCI / VGA Palette	<hr/> <p>Choose Enabled or Disabled (default). It determines whether or not the MPEG ISA cards can work with PCI / AGP.</p>
OS Select for DRAM >	<hr/> <p>Non-OS2 (default): For Non-OS/2 operating system. OS: For OS/2 operating system.</p>

Video BIOS Shadow	Enabled (default): Map the VGA BIOS to system RAM. Disabled: Don't map the VGA BIOS to system RAM.
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C8000-CBFFF to DC000-	These options are used to shadow other expansion card ROMs.
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Cyrix 6x86 / MII CPU ID	Enabled: Default setting. Disabled: Disable this option under Novell 5.0.
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3. Press <ESC> and follow the screen instructions to save or disregard your setting.

4-7.3 CHIPSET FEATURES SETUP

Chipset Features Setup changes the values of the chipset registers. These registers control the system options.

Run the Chipset Features Setup as follows:

1. Choose "CHIPSET FEATURES SETUP" from the Main Menu and a screen with a list of options will appear.
2. Use one of the arrow keys to move between options and modify the selected options by using PgUp/PgDn/+/- keys.

ROM PCI/ISA BIOS (2A6LGSNC)
CHIPSET FEATURES SETUP
AWARD SOFTWARE, INC.

Bank 0/1 DRAM Timing	: FP/EDO 70ns	OnChip USB	: Enabled
Bank 2/3 DRAM Timing	: FP/EDO 70ns	USB Keyboard Support	: Disabled
Bank 4/5 DRAM Timing	: SDRAM 10ns	CPU Host Clock(CPU/PCI)	: Default
SDRAM Cycle Length	: 2	Current CPU Temp.	: 0C/32F
DRAM Read Pipeline	: Enabled	Current System Temp.	: 0C/32F
Cache Pd+CPU Wt Pipeline	: Enabled	Current CPUFAN1 Speed	: RPM
Cache Timing	: Fast	Current CPUFAN2 Speed	: RPM
Video BIOS Cacheable	: Enabled	Vcore : 2.44V	2.5V : 3.10V
System BIOS Cacheable	: Enabled	3.3V : 3.44V	5V : 5.10V
Video Hole At 15Mb Addr.	: Disabled	12V : 12.30V	
AGP Aperture Size	: 64M		
OnChip Sound	: Enabled		
OnChip Modem	: Disabled		
		ESC : Quit	↑ ↓ → ← : Select Item
		F1 : Help	PU/PD/+/- : Modify
		F5 : Old Value	(Shift)F2 : Color
		F7 : Load Setup Defaults	

Bank 0/1 2/3 4/5 DRAM	<p>This item allows you to select the value in this field, depending on whether the board has paged DRAMs or EDO (extended data output) DRAMs.</p> <p>The choice: EDO 50ns, EDO 60ns, Slow, Medium, Fast, Turbo</p>
SDRAM Cycle Length	<p>You can select CAS latency time in HCLKs of 2/2 or 3/3. The system board designer should have set the values in this field, depending on the DRAM installed. Do not change the values in this field unless you change specifications of the installed DRAM or the installed CPU.</p>
DRAM Read Pipeline	<p>DRAM optimization feature: If a memory read is addressed to a location whose latest write is being held in a buffer before being written to memory, the read is satisfied through the buffer contents, and the read is not sent to the DRAM.</p> <p>The Choice: Enabled(default), Disabled</p>
Cache Pd+CPU Wt Pipeline	<p>Use default setting.</p>
Cache Timing	<p>Use default setting.</p>
System BIOS Cacheable	<p>Choose Enabled or Disabled (default). When Enabled, the access to the system BIOS ROM addressed at F0000H-FFFFFH is cached.</p>
Video RAM Cacheable	<p>Choose Enabled or Disabled (default). When enabled, the access to the VGA RAM addressed is cached.</p>
AGP Aperture Size (MB)	<p>Choose 4, 8, 16, 32, 64 (default), 128 or 256MB. Memory map and graphics data structures can reside in a Graphics Aperture. This area is like a linear buffer. BIOS will automatically report the starting address of this buffer to the O.S.</p>
OnChip Sound	<p>Enabled (default): Turn on AC'97 Codec chip controller. Disabled: Turn off AC'97 Codec chip controller. If user wants to use external sound card, this function must be disabled.</p>

OnChip Modem	Enabled (default): Use MC99 feature. Disabled: Turn off MC99 feature. If user wants to use external modem, this function must be disabled.
OnChip USB	This should be enabled if your system has a USB installed on the system board and you wish to use it. Even when so equipped, if you add a higher performance controller, you will need to disable this feature. The choice: Enabled, Disabled
USB Keyboard Support	Enabled: Enables function when the USB keyboard is being used. Disabled (default): When the AT keyboard is being used.
CPU Host Clock (CPU/PCI)	Choose 66/ 75/ 83/ 95/ 97/ 100/ 112/ 133 MHz.

3. Press <ESC> and follow the screen instructions to save or disregard your setting.

4-7.4 POWER MANAGEMENT SETUP

Power Management Setup changes the system power savings function.

Run the Power Management Setup as follows:

1. Choose "POWER MANAGEMENT SETUP" from the Main Menu and a screen with a list of options will appear.
2. Use one of the arrow keys to move between options and modify the selected options by using PgUp/PgDn/+/- keys.

ROM PCI/ISA BIOS (2A6LGSNC)
POWER MANAGEMENT SETUP
AWARD SOFTWARE, INC.

ACPI function	: Disabled	Primary INTR	: ON
Power Management	: User Define	IRQ3 (COM 2)	: Primary
PM Control by APM	: Yes	IRQ4 (COM 1)	: Primary
Video Off After	: Suspend	IRQ5 (LPT 2)	: Primary
Video Off Method	: V/H SYNC+Blank	IRQ6 (Floppy Disk)	: Primary
MODEM Use IRQ	: 3	IRQ7 (LPT 1)	: Primary
Soft-Off by PWRBTN	: Instant-Off	IRQ8 (RTC Alarm)	: Disabled
HDD Power Down	: Disabled	IRQ9 (IRQ2 Redir)	: Secondary
Doze Mode	: Disabled	IRQ10 (Reserved)	: Secondary
Suspend Mode	: Disabled	IRQ11 (Reserved)	: Secondary
** PM Events **		IRQ12 (PS/2 Mouse)	: Primary
VGA	: OFF	IRQ13 (Coprprocessor)	: Primary
LPT & COM	: LPT/COM	IRQ14 (Hard Disk)	: Primary
HDD & FDD	: ON	IRQ15 (Reserved)	: Disabled
DMA Master	: OFF	ESC : Quit	↑ ↓ → ← : Select Item
Modem Ring Resume	: Disabled	F1 : Help	PU/PD/+/- : Modify
RTC Alarm Resume	: Disabled	F5 : Old Value	(Shift)F2 : Color
Date(of Month)	: 0	F7 : Load Setup Defaults	
Timer(hh:mm:ss)	: 0: 0: 0		

ACPI Function	Enabled: Turn on ACPI function. Disabled (default): Turn off ACPI function.
Power Management	Choose Max. Saving, User Define (default), Disabled, or Min. Saving.
PM Control By APM	Choose Yes (default) or No. You need to choose Yes when the operating system has the APM functions, otherwise choose No.
Video Off After	Choose NA, Suspend, Standby (default) or Doze.
Video Off Method	Choose Blank, DPMS or V/H Sync+Blank (default). You can choose either DPMS or V/H Sync+Blank when the monitor has the Green function. You need to choose Blank when the monitor has neither the Green function.
Modem Use IRQ	Assign the IRQ number to the modem which is being used so that the ring signal can wake up the system. The default setting is 3 (COM2).
Soft-Off By PWR-BTTN	Instant-Off (default): Turn off the system power at once after pushing the power button. Delay 4 Sec: Turn off the system power 4 seconds after pushing the power button (to meet PC97/98 spec)
HDD Power Down	Time is adjustable from 1 to 15 minutes. When the set time has elapsed, the BIOS sends a command to the HDD to power down which turns off the motor.
Doze Mode	This mode sets the CPU speed down to 33MHz.
Suspend Mode	The option allows you to choose the mode for the different timer. The Suspend mode turns off the CPU and saves the energy of the system.

VGA	<hr/> <p>When On of VGA, any activity from one of the listed system peripheral devices or IRQs wakes up the system. Choice: On(default), Off.</p>
LPT & COM	<hr/> <p>When On of LPT&COM, any activity from one of the listed system peripheral devices or IRQs wakes up the system. Choice: LPT/COM(default), NONE, LPT or COM.</p>
HDD & FDD	<hr/> <p>When On of HDD&FDD, any activity from one of the listed system peripheral devices wakes up the system. Choice: On(default), Off.</p>
DMA / master	<hr/> <p>When On, any activity from one of the listed system peripheral devices wakes up the system. Choice: On, Off(default).</p>
Modem Ring Resume	<hr/> <p>An input signal on the serial Ring Indicator (RI) Line (in other words, an incoming call on the modem) awakens the system from a soft off state.</p>
RTC Alarm Rescume	<hr/> <p>When Enabled, you can set the date and time at the which the RTC(Real Time Clock) alarm awakens the system from suspend mode. Choice: Disabled(default), Enabled.</p>
Primary INTR	<hr/> <p>When set to On, any event occurring at will awaken a system which has been powered down. On(default): The system can not enter the power saving mode when I/O ports or IRQ# is activated. Off: The system still can enter the power saving mode when I/O ports or IRQ# is activated.</p>

The following is a list of IRQ's(Interrupt ReQuests), which can be exempted much as the COM ports and LPT ports above can. When an I/O device wants to gain the attention of the operating system, it signals this by causing an IRQ to occur. When the operating system is ready to respond to the request, it interrupts itself and performs the service. When set On, activity will neither prevent the system from going into a power management mode nor awaken it.

IRQ3 (COM2)
IRQ4 (COM1)
IRQ5 (LPT2)
IRQ6 (Floppy Disk)
IRQ7 (LPT1)
IRQ8 (RTC Alarm)

3. Press <ESC> and follow the screen instructions to save or disregard your setting.

4-7.5 PnP/PCI CONFIGURATION

PnP/PCI Configuration Setup defines PCI bus slots.

Run the PnP/PCI Configuration Setup as follows:

1. Choose "PnP/PCI CONFIGURATION SETUP" from the Main Menu and a screen with a list of options will appear.
2. Use one of the arrow keys to move between options and modify the selected options by using PgUp/PgDn/+/- keys.

*ROM PCI/ISA BIOS (2A6LGSNC)
PNP/PCI CONFIGURATION
AWARD SOFTWARE, INC.*

PNP OS Installed : No	CPU to PCI Write Buffer : Enabled
Resources Controlled By : Manual	PCI Dynamic Bursting : Enabled
Reset Configuration Data : Disabled	PCI Master 0 WS Write : Enabled
IRQ 3 assigned to : PCI/ISA PnP	PCI Delay Transaction : Enabled
IRQ 4 assigned to : PCI/ISA PnP	PCI#2 Access #1 Retry : Disabled
IRQ 5 assigned to : PCI/ISA PnP	AGP Master 1 WS Write : Disabled
IRQ 7 assigned to : PCI/ISA PnP	AGP Master 1 WS Read : Disabled
IRQ 9 assigned to : PCI/ISA PnP	
IRQ 10 assigned to : PCI/ISA PnP	Assign IRQ For USB : Enabled
IRQ 11 assigned to : PCI/ISA PnP	Assign IRQ For VGA : Enabled
IRQ 12 assigned to : PCI/ISA PnP	
IRQ 14 assigned to : PCI/ISA PnP	
IRQ 15 assigned to : PCI/ISA PnP	
DMA 0 assigned to : PCI/ISA PnP	
DMA 1 assigned to : PCI/ISA PnP	
DMA 3 assigned to : PCI/ISA PnP	<i>ESC : Quit ↑ ↓ → ← : Select Item</i>
DMA 5 assigned to : PCI/ISA PnP	<i>F1 : Help PUP/D+/- : Modify</i>
DMA 6 assigned to : PCI/ISA PnP	<i>F5 : Old Value (Shift)F2 : Color</i>
DMA 7 assigned to : PCI/ISA PnP	<i>F7 : Load Setup Defaults</i>

PNP OS Installed	<p>Yes: OS supportsss Plug and Play function. No (default): OS doesn't support Plug and Play function.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><i>Note: BIOS will automatically diable all PnP resources except the boot device card when you select Yes on Non-PnP O.S.</i></p> </div>
Resources Controlled	<p>Choose Manual (default) or Auto. The BIOS checks the IRQ/DMA channel number on the ISA and PCI card manually if you choose Manual. And the IRQ/DMA channel number will be checked automatically if you choose Auto.</p>
Reset Configuration	<p>Choose Enabled or Disabled (default). Disable retains Enabled PnP configuration data in BIOS and resets the PnP configuration data in the BIOS.</p>
CPU to PCI Write Buffer	<p>Choose Enabled(default) or Disabled.</p>
PCI Dynamic Bursting	<p>Choose Enabled(default) or Disabled .</p>
PCI Master 0 WS Write	<p>Choose Enabled(default) or Disabled .</p>
PCI Delay Transaction	<p>Choose Enabled(default) or Disabled .</p>
PCI #2 Access #1 Retry	<p>Choose Enabled or Disabled(default).</p>
AGP Master 1 WS Write	<p>Choose Enabled(default) or Disabled.</p>
AGP Master 1 WS Read	<p>Choose Enabled or Disabled(default).</p>

Assign IRQ for USB **Enabled (default):** Add one IRQ to USB controller.
Disabled: Remove IRQ from USB controller. The system will have extra IRQ for other devices but the USB controller will still not be disabled (only IRQ was removed)

Assign IRQ for VGA **Enabled (default):** Add one IRQ to VGA controller.
Disabled: Remove IRQ from VGA controller. The system will have extra IRQ for other devices but the VGA controller will still not be disabled (only IRQ will be removed)

3. Press <ESC> and follow the screen instructions to save or disregard your setting.

4-7.6 LOAD SETUP DEFAULTS

Load Setup Defaults option loads the default system values to the system configuration fields. If the CMOS is corrupted the defaults are loaded automatically.

Choose this option and the following message will appear:

“Load Setup Defaults (Y/N)? N”

To use the Setup Defaults, change the prompt to “Y” and press <Enter>.

4-7.7 INTEGRATEDPERIPHERALS

Integrated Peripherals option changes the values of the chipset registers. These registers control system options in the computer.

Run the Integrated Peripherals as follows:

1. Choose "INTEGRATED PERIPHERALS" from the Main Menu and a screen with a list of options will appear.
2. Use one of the arrow keys to move between options and modify the selected options by using PgUp/PgDn/+/- keys.

ROM PCI/ISA BIOS (2A6LGSNC)
INTEGRATED PERIPHERALS
AWARD SOFTWARE, INC.

OnChip IDE Channel0 : Enabled	Onboard Parallel Port : 378/IRQ7
OnChip IDE Channel1 : Enabled	Onboard Parallel Mode : ECP/EPP
IDE Prefetch Mode : Enabled	ECP Mode Use DMA : 3
Primary Master PIO : Auto	Onboard Legacy Audio : Enabled
Primary Slave PIO : Auto	Sound Blaster : Disabled
Secondary Master PIO : Auto	SB I/O base Address : 220H
Secondary Slave PIO : Auto	SB IRQ Select : IRQ 5
Primary Master UDMA : Auto	SB DMA Select : DMA 1
Primary Slave UDMA : Auto	MPU-401 : Disabled
Secondary MasterUDMA : Auto	MPU-401 I/O Address : 330H - 333H
Secondary Slave UDMA : Auto	Game Port(200H - 207H) : Enabled
Init Display First : PCI Slot	
Onboard FDD Controller : Enabled	
Onboard Serial Port 1 : 3F8/IRQ4	
Onboard Serial Port 2 : 2F8/IRQ3	
UART 2 Mode : Standard	
IR Function Duplex : Half	
TX, RX inverting enable : No, Yes	
	ESC : Quit ↑ ↓ → ← : Select Item
	F1 : Help PU/PD/+/- : Modify
	F5 : Old Value (Shift)F2 : Color
	F7 : Load Setup Defaults

OnChip IDE Channel	<hr/> <p>The chipset contains a PCI IDE interface with support from two IDE channels. Select Enabled to activate the first and/or the second IDE interface. Select Disabled to deactivate an interface, if you install a primary and/or second add-on IDE interface.</p> <p>The choice: Enabled(default), Disabled.</p>
IDE Prefetch Mode	<hr/> <p>Choose Enable(default), Disabled.</p>
Primary Master/Slave PIO Secondary Master/Slave PIO	<hr/> <p>Choose Auto (default) or Mode 0~4. The BIOS will detect the HDD mode type automatically when you choose Auto. You need to set to a lower mode than Auto when your hard disk becomes unstable.</p>
Primary Master/Slave UDMA Secondary Master/Slave	<hr/> <p>Enabled (default): Turn on the onboard IDE function. Disabled: Turn off the onboard IDE function.</p>
Init Display First	<hr/> <p>This option allows you to decide to activate PCI Slot or AGP first.</p> <p>Choose PCI Slot(default), AGP.</p>
Onboard FDC Controller	<hr/> <p>Choose Enabled (default) or Disabled. Choose Disabled when you use an ISA card with FDD function, or choose Enabled to use the onboard FDD connector.</p>
Onboard Serial Port1	<hr/> <p>Choose Auto (default), 3F8/IRQ4, 2F8/IRQ3, 3E8/IRQ4, 2E8/IRQ3 or Disabled. Don't set port 1 & 2 to the same value, except when setting at Disabled.</p>
Onboard Serial Port2	<hr/> <p>Choose Auto (default), 3F8/IRQ4, 2F8/IRQ3, 3E8/IRQ4, 2E8/IRQ3 or Disabled.</p>

UART 2 Mode	Choose Standard (default), HPSIR or ASKIR.
IR Function Duplex	The choice: Half (default), Full
TX, RX inverting enabled	Choose No, Yes (default) / No, No / Yes, No / Yes, Yes. <div style="border: 1px solid black; padding: 5px; text-align: center;">Note: The above 2 options won't work unless UART2 Mode HPSIR/ASKIR is</div>
Onboard Parallel Port	Choose the printer I/O address: 378H/IRQ7 (default), 3BCH/IRQ7, 278H/IRQ5 or Disabled.
Onboard Parallel Mode	Choose Normal (default), ECP/EPP, SPP mode. The mode depends on the external device connected to this port.
ECP Mode Use DMA	Choose DMA3 (default) or DMA1. Most sound cards use DMA1. Check with your sound card configuration to make sure that there is no conflict with this function. <div style="border: 1px solid black; padding: 5px; text-align: center;">Note: This option will not be displayed</div>
EPP Mode Select	Choose EPP1.7 (default) or EPP1.9. EPP1.9 supports hardware handshake. This setting is dependent upon your EPP device. <div style="border: 1px solid black; padding: 5px; text-align: center;">Note: The above 2 options will not be displayed unless the EPP/ECP is</div>
Onboard Legacy Audio	The choice: Enabled (default), Disabled.

Sound Blaster	Choose Enabled or Disabled (default). For DOS mode compatibility, this option must be enabled. In Windows system, this option must be disabled.
SB I/O Base Address	Use default setting.
SB IRQ Select	Use default setting.
SB DMA Select	Use default setting.
MPU-401	Choose Enabled or Disabled (default). Some feedback type joystick must enable this option (ex: Sidewinder joystick).
MPU-401 I/O Address	Use default setting.
Game Port (200-207H)	Use default setting.

3. Press <ESC> and follow the screen instructions to save or disregard your setting.

4-7.8 SUPERVISOR/USER PASSWORD

These two options allow you to set your system passwords. Normally, the supervisor has a higher ability to change the CMOS setup option than the user. The way to set up the passwords for both supervisor and user are as follows:

1. Choose "CHANGE PASSWORD" from the Main Menu and press <Enter>. The following message appears:

"Enter Password:"

2. The first time you run this option, enter your own password up to 8 characters and press <Enter>. The screen doesn't display the entered characters.
3. After you entered the password, the following message appears prompting you to confirm the password:

"Confirm Password:"

4. Enter the same password "exactly" as you just typed again to confirm the password and press <Enter>.
5. Move the cursor to Save & Exit Setup to save the password.
6. If you need to delete the password you entered before, choose the Supervisor Password and press <Enter>. It will delete the password that you had before.
7. Move the cursor to Save & Exit Setup to save the option you did, otherwise the old password will still be there the next time you turn your machine on.
8. Press <ESC> to exit to the Main Menu.

Note: If you forget or lose the password, the only way to access the system is to clear the CMOS RAM by setting JBAT1. All setup information will be lost and back to default setting. You need to run the BIOS setup program and re-define all settings again.

4-7.9 IDE HDD AUTO DETECTION

IDE HDD Auto Detection detects the parameters of an IDE Hard Disk drive and automatically enters them to the Standard CMOS Setup screen.

The screen will ask you to select a specific Hard Disk for Primary Master after you selected this option. If you accept a Hard Disk detected by the BIOS, you can enter “Y” to confirm and then press <Enter> to check next Hard Disk. This function allows you to check four Hard Disks and you may press the <ESC> after the <Enter> to skip this function and go back to the Main Menu.

4-7.10 SAVE & EXIT SETUP

Save & Exit Setup allows you to save all modifications you have specified into the CMOS memory. Highlight this option on the Main Menu and the following message appears:

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

Press <Enter> key to save the configuration changes.

4-7.11 EXIT WITHOUT SAVING

Exit Without Saving allows you to exit the Setup utility without saving the modifications that you have specified. Highlight this option on the Main Menu and following message appears:

Quit Without Saving (Y/N)? N

You may change the prompt to “Y” and press the <Enter> key to leave this option.