

VT 586 VXB

# USER'S MANUAL

WWW.VISIONTOP.COM.TW



2-97

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## **Chapter 1. Introduction**

### **1. Introduction**

#### **PREFACE:**

WELCOME TO USE VT586VX. WE WILL INTRODUCE NEW FEATURES (DIMM FOR 3.3V DRAM & SDRAM, USB PORT) ALLOW YOU TO OPERATE THE VT586VX WITH JUST THE PERFORMANCE YOU WANT.

THIS MANUAL ALSO EXPLAINS HOW TO INSTALL VT586VX FOR OPERATION (INCLUDING CMOS CONFIGURATION AND BIOS SETUP PROGRAM).

#### **FEATURES:**

##### **© Integrated DRAM Controller.**

- Support Mixed Memory Technologies.(EDO/FP/SDRAM)
- Support 3V Or 5V DRAM.
- 64 Bits Path To Memory.


##### **© PCI 2.1 COMPLIANT**

Fully Synchronous 25/30/33 MHz PCI BUS Interface.

- CPU-to-PCI Memory Writes Posting With 5 DWord Deep Buffers. (82430FX: 4 Deep)

- PCI-to-DRAM Read Prefetching With 5 QWord. (82430FX: 1 QWord)
- PCI-to-DRAM Posting With 18 DWords. (82430FX: 13 DWords)
- Multi-Transaction Timer To Support Multiple Short PCI Transactions. (82430FX: Not Support)

© Supports The Universal Serial Bus. (PIIX3)



*File:*

<i>15/7/98</i>

\*: Seleccionar modelo  
- NO ES ATX -

## 2. Specification

**Hardware** Genuine Intel, typ.  $\phi$ , Family = 5, Model = 2, Step = 12  
**CPU:** (P54C) mC  $\phi$ /c  $\phi$ -step

-Supports Intel Pentium 75/...../200 MHz CPU, AMD K5  
CPU(PR75/PR90), Cyrix 6x86 CPU(P120+/...../ P166+).

-321 Pins ZIF Socket (Socket 7).

-NO soporte MMX.

### SPEED:

-Supports 50/55/60/66/75 MHz System Clock And 25/27.5  
/30/33 MHz PCI BUS Speed.

-7.5/8 MHz AT Bus Speed.

### MEMORY:

-2 Banks (4 Pcs) 72 Pins 4/8/16/32 MB SIMM Module  
Socket, Supports Fast Page/EDO Mode DRAM.

-2 Banks (2 Pcs) 168 Pins 8/16/32/64 MB DIMM Module  
Socket, Supports Fast Page/EDO/ SDRAM.

\* No poner mas de 64 MB, con mas MB el sistema se  
entretace por no puede cachearlo

### CACHE:

-Supports On Board 256KB Or 512 KB Pipeline Burst  
SRAM.

**IDE:**

- Supports Dual PIO And Bus Master IDE Up To Mode 4 Timing, Transfer Rate To 22 MB/Sec.
- Supports 4 Enhance IDE Hard Disk Or IDE CD-ROM.
- Support CD-ROM Boot.

**I/O:**

- FDC \* 2. (360KB/720KB/1.2MB/1.44MB/2.88 MB)
- Two Serial Ports For 16550 UARTS.
- One Parallel Port For SPP/EPP/ECP.
- Support Infrared Transmission (IrDA).
- Support PS/2 Mouse.
- Supports Dual Universal Serial Bus (USB) Port.

**BUS SLOT:**

- 3 32-Bits PCI Bus For PCI Ver 2.1.
- 4 16-Bits ISA Bus.

**BIOS:**


- Support "Plug & Play" Function.
- Support NCR SCSI BIOS.

**GREEN FUNCTION:**

- Supports Standby & Suspend Mode Green Function.
- Supports IDE & Display Power Down.

## Software

### BIOS:

AWARD BIOS V4.51 

### O.S.:

Operation With MS-DOS V6.22, Windows For Workgroup 3.11, Windows 95, Windows NT, OS/2, Novell, UNIX, SCO UNIX.

## Attachments

- HDD Cable.
- FDD Cable.
- Serial Port Cables.
- Printer Port & PS/2 Mouse Cable.
- User's Manual

## 3. System Performance

(32MB DRAM, 256KB SRAM, S3-765)

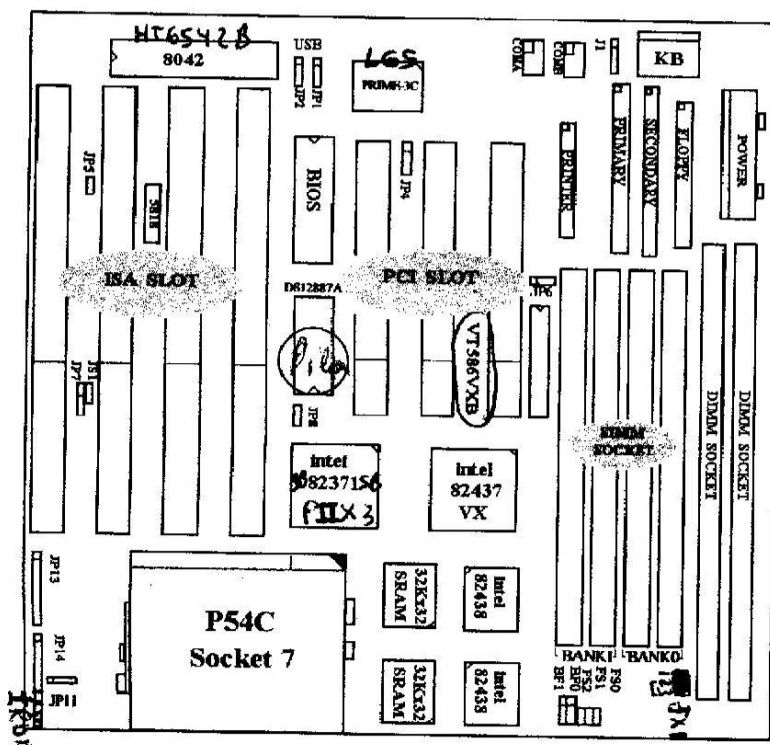
CPU Type	Landmark Ver2.0	WINSTONE 96
Pentium 166	984.81	74.1
Pentium 200	1182.28	78.3
AMD K5-PR100	897.51	60.2
Cyrix 6x86-P166+	1648.89	74.7

ISB 823715B chip set  
 LG482258  
 SUP 93 step B-0  
 Intel 95

SB 82437VX  
 LG445723  
 SUNG  
 Intel 95

## Chapter 2. Hardware Configuration

### 1. Mainboard Layout



\* la - indicata cu cerceala si  
 o de □ indica pin N° 1.



## 2. Jumpers Setting

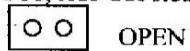
### CPU Quick Installation

*(Green Jumper)*

CPU Type	Bus Clock Multiplier	BF1	BF0	FS1	FS0	FS2	FS3
Pentium 75	50MHz*1.5	OPEN	OPEN	close	close	close	close
Pentium 90	60MHz*1.5	OPEN	OPEN	close	close	OPEN	OPEN
Pentium 100	66MHz*1.5	OPEN	OPEN	close	OPEN	close	close
Pentium 120	60MHz*2.0	OPEN	close	close	close	OPEN	OPEN
Pentium 133	66MHz*2.0	OPEN	close	close	OPEN	close	close
Pentium 150	60MHz*2.5	close	close	close	close	OPEN	OPEN
Pentium 166	66MHz*2.5	close	close	close	OPEN	close	close
Pentium 180	60MHz*3.0	close	OPEN	close	close	OPEN	OPEN
* Pentium 200	66MHz*3.0	close	OPEN	close	OPEN	close	close
AMD K5-PR75	50MHz*1.5	OPEN	OPEN	close	close	close	close
AMD K5-PR90	60MHz*1.5	OPEN	OPEN	close	close	OPEN	OPEN
Cyrix 6x86-P120+	50MHz*2.0	OPEN	close	close	close	close	close
Cyrix 6x86-P133+	55MHz*2.0	OPEN	close	OPEN	close	close	close
Cyrix 6x86-P150+	60MHz*2.0	OPEN	close	close	close	OPEN	OPEN
Cyrix 6x86-P166+	66MHz*2.0	OPEN	close	close	OPEN	close	close

FS0, FS1, FS2, BF0, BF1 Use *Green* Jumper.

JP11, JX1 Use *Red* Jumper.



OPEN



CLOSE

#### Flash ROM Type Select

	<i>ROM Type</i>	<i>JP</i>
*	5V Flash ROM	1-2 CLOSE
	12V Flash ROM	2-3 CLOSE

#### Cache RAM Size Select

	<i>Cache Size</i>	<i>JP</i>	<i>Cache Size</i>
	256KB Onboard	2-3 CLOSE	8k*8, 32k*8
*	512KB Onboard	1-2 CLOSE	32k*8

#### AT Bus Clock Select *(JP7: Black Jumper)*

	<i>Clock</i>	<i>JP7</i>
*	PCI Clock/3	1-2 CLOSE
	PCI Clock/4	2-3 CLOSE

*PCI Clock/3* is the default.

**BF Ratio** (BF1 & BF0: Green Jumper)

BUS/CORE	BF1	BF0
x1.5	OPEN	OPEN
x2.0	OPEN	CLOSE
x2.5	CLOSE	CLOSE
x3.0	CLOSE	OPEN

x1.5 is the default. (for Pentium 100 CPU)

**CPU Clock Select** (FS2 & FS1 & FS0: Green Jumper)

Clock	FS2	FS1	FS0	
50	50MHz	CLOSE	CLOSE	CLOSE
55	55MHz	OPEN	CLOSE	CLOSE
60	60MHz	CLOSE	CLOSE	OPEN
33 1/2	66MHz	CLOSE	OPEN	CLOSE
37 1/2	75MHz	OPEN	CLOSE	OPEN
50 1/8	61.6MHz	OPEN	OPEN	CLOSE
34 1/2	68.4MHz	OPEN	OPEN	OPEN

66MHz is the default. (for Pentium 100 CPU)

**Note:** 61.6MHz & 68.4MHz Only support Intel Pentium CPU.

61.6MHz is 60MHz Turbo Mode.

68.4MHz is 66MHz Turbo Mode.

75MHz for Cyrix 6x86 P200+ CPU.

**CPU Voltage-Level Select** (JP11: Red Jumper)

CPU Voltage	JP11
3.3V	1-2, 3-4
3.45V	3-4
3.52V	OPEN

3.3V is the default.

**DIMM Voltage Select** (JX1: Red Jumper)

DIMM Voltage	JX1
3.3V	2-3 CLOSE
5V	1-2 CLOSE

3.3V is the default.

**Note:** SIMM1,2 & DIMM1 is use the same BANK0.  
SIMM3,4 & DIMM2 is use the same BANK1.

**PS/2 Mouse Select** (JS1: Black Jumper)

OPEN : PS/2 Mouse Disabled.

\*CLOSE: PS/2 Mouse Enabled. (default)

### DRAM Installation

	Bank 0 SIMM1-2	Bank 1 SIMM3-4
<b>8MB</b>	4MBx2Pcs	—
<b>16MB</b>	8MBx2Pcs	—
<b>24MB</b>	8MBx2Pcs	4MBx2Pcs
	4MBx2Pcs	8MBx2Pcs
<b>32MB</b>	16MBx2Pcs	—
	8MBx2Pcs	8MBx2Pcs
<b>40MB</b>	16MBx2Pcs	4MBx2Pcs
	4MBx2Pcs	16MBx2Pcs
<b>48MB</b>	16MBx2Pcs	8MBx2Pcs
	8MBx2Pcs	16MBx2Pcs
(Top) → <b>64MB</b>	32MBx2Pcs	—
	16MBx2Pcs	16MBx2Pcs
↓ + 4B ↓ Levto	<b>72MB</b>	32MBx2Pcs
	4MBx2Pcs	4MBx2Pcs
	<b>80MB</b>	32MBx2Pcs
	8MBx2Pcs	8MBx2Pcs
	32MBx2Pcs	32MBx2Pcs
	<b>96MB</b>	16MBx2Pcs
	16MBx2Pcs	32MBx2Pcs
	<b>128MB</b>	32MBx2Pcs
	32MBx2Pcs	32MBx2Pcs

Installation  
file CR2032 (Lith)

### CMOS Function Select

\* JP5 for ALI 5818 Real Time Clock Clear Function.

JP8 for ODIN DS12887A Real Time Clock Clear Function.

OPEN : To Maintain Setup And Extended Setup Data  
In CMOS For Normal Functioning. (default)

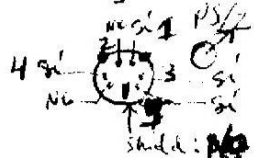
CLOSE: To Clear CMOS Setup Memory. If There Has  
Been Any Inappropriate Operation Incurring  
The System Is Failure.

\* J1

#### PS/2 Mouse Cable Connector

- (R) Pin 1 : MS\_DATA.      Pin 2 : NC.
- (V) Pin 3 : GND.          Pin 4 : Vcc (A)
- (AZ) Pin 5 : MS\_CLK.      Pin 6 : NC.

Si: Co Cable  
No: Sin Cable

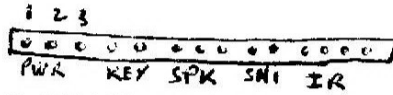


JP1, JP2

#### USB Connector (pin 2 & 3)

- Pin 1 : Vcc. (5v)      Pin 2 : DATA-
- Pin 3 : DATA+        Pin 4 : GND.

~~Remove~~ Remove connectors, USB etc  
4 pin / 5 pin place



### JP13 & JP14 Connectors

	Jumper	Function
Not connected	KEYLOCK (JP13)	*Power LED & Key-Lock Connector. (N/C) Pin 1 : POWER_LED. Pin 2 : NC. Pin 3 : GND. Pin 4 : KEYLOCK. Pin 5 : GND.
Si	SPK (JP13)	Speaker Connector.
Botón Turbo	SMI *	Green Function Switch. { Aprieta dos veces el Turbo switch entra en suspend
Si	RST	Reset Switch.
Si	IDELED	IDE Hard Disk Active LED.
UART Computer (by COM-2)	IR	IrDA Connector. (In case base) Pin 1 : IRTX. Pin 2 : GND. Pin 3 : IRRX. Pin 4 : Vcc. (5v.)
	DB9 ♂ IRDA	DB9 : { 2 : IRRX 5 : GND 65V CK 3 : IRTX 7 : VCC

\* Al aprieta dos veces el botón del Turbo se entra en Suspend Mode, es importante que el botón quede siempre hacia afuera (circuito abierto hacia SMI) pues el SMI solo veanta un corto contacto (circuito cerrado SMI) para activar SUSPEND.

## **Chapter 3. CMOS Setup Utility**

### **Starting Setup**

The Award BIOS is immediately activated when you first power on the computer. The BIOS reads the system information contained in the CMOS and begins the process of checking out the system and configuring it. When it finishes, the BIOS will seek an operating system on one of the disks and then launch and turn control over to the operating system.



## Main Menu

Once you enter the Award BIOS CMOS Setup Utility, the Main Menu will appear on the screen. The Main Menu allows you to select from several setup functions and two exit choices. Use the arrow keys to select among the items and press <Enter> to accept and enter the sub-menu.

ROM BIOS (Award BIOS)

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 SETUP	HDD LOW LEVEL FORMAT
LOAD BIOS DEFAULTS	SAVE & EXIT SETUP
LOAD SETUP DEFAULTS	EXIT WITHOUT SAVING
Esc : Quit    ↑ ↓ → ← Select Item	
F10 : Save & Exit Setup    (Shift) F2 : Change Color	
Time, Date,        Hard Disk Type...	

## 1. Standard CMOS Setup

ROM PCL/ISA BIOS (2A59GV5C)

STANDARD CMOS SETUP

AWARD SOFTWARE, INC.

Date (mm:dd:yy) : Fri, Apr 7 1995								
Time(hh:mm:ss) : 00:00:00								
HARD DISKS	TYPE	SIZE	CYLS	HEAD	PRECOMP	LANDE	SECTOR	MODE
Primary Master	: Auto	0	0	0	0	0	0	Auto
Primary Slave	: Auto	0	0	0	0	0	0	Auto
Secondary Master	: Auto	0	0	0	0	0	0	Auto
Secondary Slave	: Auto	0	0	0	0	0	0	Auto
Drive A : 1.44M , 3.5in.						Base Memory : 640K		
Drive B : None						Extended Memory : 15160K		
Video : EGA / VGA						Other Memory : 384K		
Halt On : All Errors						Total Memory : 16384K		
ESC : Quit                   ↑ ↓ → ← : Select Item                   PU / PD / +/- : Modify								
F1 : Help                   (Shift) F2 : Change Color								

### Primary Master/Slave & Secondary Master/Slave

Press PgUp or PgDn to select a numbered hard disk type or type the number and press <Enter>. 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 Type "User" to define your own drive type manually.

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

If you select Type "Auto", BIOS will Auto-Detect the HDD & CD-ROM Drive at the POST stage and showing the IDE for HDD & CD-ROM Drive.

## 2. BIOS Features Setup

ROM PCI/ISA BIOS (2A59GV5C)

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
Quick Power On Self Test	: Disabled	D0000-D3FFF Shadow	: Disabled
Boot Sequence	: C, A	D4000-D7FFF Shadow	: Disabled
Swap Floppy Drive	: Disabled	D8000-DBFFF Shadow	: Disabled
Boot Up Floppy Seek	: Enabled	DC000-DFFFF Shadow	: Disabled
Boot Up Numlock Status	: On		
Boot Up System Speed	: High		
Gate A20 Option	: Fast		
Typeomatic Rate Setting	: Disabled		
Typeomatic Rate (Chars/Sec)	: 6		
Typeomatic Delay (Msec)	: 250	ESC: Quit	↑ ↓ → ←: Select Item
Security Option	: Setup	F1: Help	PU/PD/+/=: Modify
PS/2 Mouse Function Control	: Enabled	F5: Old Values	(Shift) F2: Color
PCI/VGA Palette Snoop	: Disabled	F6: Load BIOS Defaults	
OS Select For DRAM>64MB	: Non-OS2	F7: Load Setup Defaults	

### **Virus Warning**

When this item is enabled, the Award BIOS will monitor the boot sector and partition table of the hard disk drive for any attempt at modification. If an attempt is made, the BIOS will halt the system and the following error message will appear. The default value is *Disabled*.

### **CPU Internal Cache/External Cache**

These two categories speed up memory access. However, it depends on CPU/chipset design. The default value is *Enabled*.

### **Quick Power On Self Test**

This category speeds up Power On Self Test (POST) after you power up the computer. If it is set to Enable, BIOS will shorten or skip some check items during POST. The default value is *Disabled*.

### **Boot Sequence**

This category determines which drive to search first for the disk operating system (i.e., DOS). Default value is *C,A*.

### **Swap Floppy Drive**

This item allows you to determine whether enable the swap floppy drive or not. Default value is *Disabled*.

#### **Boot Up Floppy Seek**

During POST, BIOS will determine if the floppy disk drive installed is 40 or 80 tracks. The default value is *Enabled*.

#### **Boot Up Numlock Status**

This allows you to determine the default state of the numerical keypad. By default, the system boots up with *NumLock on*.

#### **Boot Up System Speed**

Choose system bootup speed. The default is *High*.

#### **Gate A20 Option**

Use the GA20 from the chipset or the keyboard controller. The default is *Fast*.

#### **Typematic Rate Setting**

This option to adjust the keystroke repeat rate. The default is *Disabled*.

#### **Typematic Rate**

Choose the rate a character keeps repeating. The default is *6*.

#### **Typematic Delay**

Select the delay between when the key was first depressed and when the acceleration begins. The default is *250*.

### **Security Option**

Use this feature to prevent unauthorized system Boot-Up or unauthorized use of BIOS setup. The default is *Setup*.

### **PS/2 Mouse Function Control**

*Enabled* is the default.

### **PCI/VGA Palette Snoop**

It determines whether the MPEG ISA/VESA VGA Cards can work with PCI/VGA or not. The default is *Disabled*.

### **OS Select for DRAM > 64**

This item allows you to access the memory that over 64MB in OS/2. The default is *Non-OS2*.

### **Video BIOS Shadow**

Determines whether video BIOS will be copied to RAM. Video Shadow will increase the video speed. The default is *Enabled*.

### **C8000-CBFFF Shadow/DC000-DFFFF Shadow**

These categories determine whether option ROMs will be copied to RAM. An example of such option ROM would be support of on-board SCSI.

### 3. Chipset Features Setup

ROM PCI/ISA BIOS (2A59GV5C)

CHIPSET FEATURES SETUP

AWARD SOFTWARE, INC.

Auto Configuration	: Enabled	Delayed Transaction	: Disabled
DRAM Tuning	: 70ns		
DRAM RAS# Precharge Time	: 4		
DRAM R/W Leadoff Timing	: 6		
Fast RAS# To CAS# Delay	: 3		
DRAM Read Burst (EDO/TP)	: x333/x444		
DRAM Read Burst Timing	: x335		
Fast MA to RAS# Delay CLK	: 1		
Fast EDO Path Select	: Disabled		
Refresh RAS# Assertion	: 5 CLKS		
ISA Bus Clock	: PCI CLK/4		
System BIOS Cacheable	: Disabled		
Vidco BIOS Cacheable	: Disabled		
8 Bit I/O Recovery Time	: 1		
16Bit I/O Recovery Time	: 1		
Memory Hole At 15M-16M	: Disabled	ESC : Quit	↑ ↓ → ← : Select Item
Peer Concurrency	: Enabled	F1 : Help	PU/PD/+/- : Modify
Passive Release	: Enabled	F5 : Old Values	(Shift) F2 : Color
		F6 : Load BIOS Defaults	
		F7 : Load Setup Defaults	

#### Auto Configuration

Pre-defined values for DRAM, cache.. timing according to CPU type & system clock. Default value is *Enabled*.

#### DRAM Tuning

Slower rates may be required in certain system designs to support loose layouts or slower memory. Default value is *70ns*.

#### DRAM RAS# Precharge Time

The DRAM Precharge Time By RAS. Default value is *4*.

### **DRAM R/W Leadoff Timing**

This sets the number of CPU clocks allowed before reads and writes to DRAM are performed. Default value is 6.

### **Fast RAS# to CAS# Delay**

This setup item allows you to determine the timing of the transition from Row Address Strobe (RAS) to Column Address Strobe (CAS). Default value is 3.

### **DRAM Read (EDO/FP)**

The timing used depends on the type of DRAM on a Per-Basis. The RAM read burst timing are controlled by register. Default value is *x333/x444*.

### **DRAM Write Burst Timing**

This sets the timing for burst mode writes from DRAM. Default value is *x333*.

### **Fast MA to RAS# Delay CLK**

Set Fast MA to RAS# Delay. Default value is 1.

### **Fast EDO Path Select**

Default value is *Disabled*.

### **Refresh RAS# Assertion**

Set Refresh RAS# Assertion. Default value is 5 *CLKS*.



### **ISA Bus Clock**

This item allows you to select the PCI clock type. Default value is *PCI CLK/4*.

### **System BIOS Cacheable**

Define whether system BIOS area cacheable or boot. *Disabled* is the default.

### **Video BIOS Cacheable**

Define whether video BIOS area cacheable or boot. *Disabled* is the default.

### **8 Bit I/O Recovery Time**

This item allows you to determine the recovery time allowed for 8 bit I/O. Choices are from NA, 1 to 8 CPU clocks. *1* clock is the default.

### **16 Bit I/O Recovery Time**

This item allows you to determine the recovery time allowed for 16 bit I/O. Choices are from NA, 1 to 4 CPU clocks. *1* clock is the default.

### **Memory Holt At 15M-16M**

In order to improve performance, certain space in memory can be reserved for ISA cards. This memory must be mapped into the memory space below 16 MB. *Disabled* is the default.

### Peer Concurrency

Peer concurrency means that more than one PCI device can be active at a time. *Enabled* is the default.

## 4. Power Management Setup

ROM PCI / ISA BIOS (2A59GV5C)

POWER MANAGEMENT SETUP

AWARD SOFTWARE, INC.

Power Management	: Disabled	** Power Down & Resume Events **
PM Control by APM	: Yes	IRQ3 (COM 2) : ON
Video Off Method	: V/H SYNC+Blank	IRQ4 (COM 1) : ON
MODFPM Use IRQ	: 3	IRQ5 (LPT 2) : OFF
		IRQ6 (Floppy Disk) : OFF
Doze Mode	: Disabled	IRQ7 (LPT 1) : OFF
Standby Mode	: Disabled	IRQ8 (RTC Alarm) : OFF
Suspend Mode	: Disabled	IRQ9 (IRQ2 Redir) : OFF
HDD Power Down	: Disabled	IRQ10 (Reserved) : OFF
		IRQ11 (Reserved) : OFF
** Wake Up Events In Doze & Standby **		IRQ12 (PS/2 Mouse) : OFF
IRQ3 (Wake - Up Event)	: ON	IRQ13 (Coprocessor) : OFF
IRQ4 (Wake - Up Event)	: ON	IRQ14 (Hard Disk) : ON
IRQ8 (Wake - Up Event)	: ON	IRQ15 (Reserved) : OFF
IRQ12 (Wake - Up Event)	: ON	
		ESC : Quit ↑ ↓ → ←, Select Item
		F1 : Help P11/PD/+/=
		Modify
		F5 : Old Values (Shift) F2 : Color
		F6 : Load BIOS Defaults
		F7 : Load Setup Defaults

### Power Management

<i>Disabled</i> (default)	No power management. Disables all four modes
Min. Power Saving	Minimum power management.
Max. Power Saving	Maximum power management -- <b>ONLY AVAILABLE FOR SL CPU'S.</b>
User Defined	Allows you to set each mode individually.

### PM Control by APM

When enabled, an Advanced Power Management device will be activated to enhance the Max. Power Saving mode and stop the CPU internal clock. Default value is *Yes*.

### Video Off Method

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

### **Doze Mode**

The CPU clock will run at slower speed while all other devices still operate at full speed. Default value is *Disabled*.

### **Standby Mode**

The fixed disk drive and the video would be shut off while all other devices still operate at full speed. Default value is *Disabled*.

### **Suspend Mode**

All devices except the CPU will be shut off. Default value is *Disabled*.

### **HDD Power Down**

The hard disk drive will be powered down while all other devices remain active. Default value is *Disabled*.

### **Wake-Up Event**

To IRQ3, IRQ4, IRQ8, IRQ12 check point any activity. The system will wake up.

### **Power Done Activities**

To COM ports, LPT ports and drivers IRQ3.....IRQ15 check point then into green function.

## 5. PNP/PCI Configuration Setup

ROM PCI / ISA BIOS (2A59GV5C)

PNP/PCI CONFIGURATION SETUP

AWARD SOFTWARE, INC.

Resources Controlled by Reset Configuration Data	: Auto : Enabled	PCI IRQ Activated By PCI IDE IRQ Map To	: Level : PCI-AUTO
IRQ-3 assigned to	: Legacy ISA	Primary IDE INT#	: A
IRQ-4 assigned to	: Legacy ISA	Secondary IDE INT#	: B
IRQ-5 assigned to	: PCI/ISA PnP	Used MEM base addr	: N/A
IRQ-7 assigned to	: PCI/ISA PnP		
IRQ-9 assigned to	: PCI/ISA PnP		
IRQ-10 assigned to	: PCI/ISA PnP		
IRQ-11 assigned to	: PCI/ISA PnP		
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		
		ESC : Quit	↑ ↓ → ← : Select Item
		F1 : Help	PU/PD+/- : Modify
		F5 : Old Values	(Shift) F2 : Color
		F6 : Load BIOS Defaults	
		F7 : Load Setup Defaults	

### Resources Controlled By

The Award Plug and Play BIOS has the capacity to automatically configure all of the boot and Plug and Play compatible devices. Default value is *Auto*.

### Reset Configuration Data

This item allows you to determine reset the configuration data or not. *Enabled* is the default.

### IRQ3/4/5/.../15, DMA0/1 assigned to

This item allows you to determine the IRQ / DMA assigned to the ISA bus and is not available to any PCI slot.

### PCI IRQ Activated By

This sets the method by which the PCI bus recognizes that an IRQ service is being requested by a device. Default value is *Level*.

### PCI IDE IRQ Map to

This allows you to configure your system to the type of IDE disk controller in use. *PCI-AUTO* is the default.

## 6. Integrated Peripherals

ROM PCI / ISA BIOS (2A59GV5C)

INTEGRATED PERIPHERALS

AWARD SOFTWARE, INC.

IDE HDD Block Mode	: Enabled	
IDE Primary Master PIO	: Auto	
IDE Primary Slave PIO	: Auto	
IDE Secondary Master PIO	: Auto	
IDE Secondary Slave PIO	: Auto	
On-Chip Primary PCI IDE	: Enabled	
On-Chip Secondary PCI IDE	: Enabled	
PCI Slot IDE 2nd Channel	: Disabled	
USB Controller	: Disabled	
Onboard FDD Controller	: Enabled	
Onboard Serial Port1	: AUTO	
Onboard Serial Port2	: AUTO	
UART 2 Mode	: Standard	
Onboard Parallel Port	: 378H/IRQ7	
Onboard Parallel Mode	: Normal	
		ESC : Quit
		F1 : Help
		F5 : Old Values
		F6 : Load BIOS Defaults
		F7 : Load Setup Defaults
		↑ ↓ → ← : Select Item
		PU/PD/+/ -: Modify
		(Shif) F2 : Color

### **IDE HDD Block Mode**

This allows your hard disk controller to use the fast block mode to transfer data to and from your hard disk drive (HDD). *Enabled* is the default.

### **IDE Primary & Secondary Master/SlavePIO**

Your system supports five modes, numbered from 0 (default) to 4, which primarily differ in timing. When *Auto* is selected, the BIOS will select the best available mode. This is true for the next four setup items:

1. IDE Primary Master/ Slave PIO
2. IDE Secondary Master/ Slave PIO

### **On-Chip Primary PCI IDE**

This setup item allows you either to enable or disable the primary controller. You might choose to disable the controller if you were to add a higher performance or specialized controller. *Enabled* is the default.

### **On-Chip Secondary PCI IDE**

this setup item you either to enable or disable the secondary controller. You might choose to disable the controller if you were to add a higher performance or specialized controller. *Enabled* is the default.

**PCI Slot IDE 2nd Channel**

This item allows you designate an IDE controller board inserted into one of the physical PCI slots as your secondary IDE controller. *Disabled* is the default.

**USB Controller**

*Disabled* is the default.

**Onboard FDD Controller**

*Enabled* is the default.

**Onboard Serial Port 1**

*AUTO* is the default.

**Onboard Serial Port 2**

*AUTO* is the default.

**UART 2 Mode**

*Standard* is the default.

**Onboard Parallel Port**

*378H/IRQ7* is the default.

**Onboard Parallel Mode**

*Normal* is the default.



## **7. Load BIOS Defaults**

The defaults loaded only affect on the standard CMOS setup, to use this feature highlight it on the main screen and press <ENTER>, a line will appear on screen asking if you want to load the BIOS default values, press the <Y> key and then press the <ENTER> key, the BIOS defaults will then load, press <N> if you don't want to process.

## **8. Load Setup Defaults**

To use the feature, highlight it on the main screen and press <ENTER> key a line will appear on screen asking if you want to load the setup default values, press the <Y> key and then press the <ENTER> key, the setup defaults will then load, press <N> if you don't want to process.

## **9. Supervisor/User Password Setting**

You can set either supervisor or user password, or both of them. The differences between are:

- supervisor password : can enter and change the options of the setup menus.
- user password : just can enter but do not have the right to change the options of the setup menus.

You determine when the password is required within the BIOS Features Setup Menu and its Security option. If the Security option is set to "System", the password will be required both at boot and at entry to Setup. If set to "Setup", prompting only occurs when trying to enter Setup.