6513VX Motherboard Reference

Part Number : 5615 7012 0001 R00 (Jul. 2000)

Trademarks

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Note

The information in this guide is subject to change without notice.

Caution Texts Concerning Lithium Batteries

DANISH

ADVARSEL!

Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

NORWEGIAN

ADVARSEL: Eksplosjonsfare ved feilaktig skifte av batteri. Benytt samme batteritype eller en tilsvarende type anbefalt av apparatfabrikanten. Brukte batterier kasseres i henhold til fabrikantens instruksjoner.

SWEDISH

VARNING:

Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion.

FINNISH

VAROITUS:

CAUTION:

Paristo voi räjätää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan valmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

ENGLISH

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

VORSICHT:

DEUTSCH

Explosionsgefahr bei unsachgemäßem Austausch der Batterie. Ersatz nur durch denselben oder einen vom Hersteller empfohlenen gleich-wertigen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

ATTENTION:

FRENCH

Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur. Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

Class B Regulations

U. S. A.

Federal Communications Commission Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning:

Use only shielded cables to connect I/O devices to this equipment. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Canada

Canadian Department Of Communications Radio Interference Regulations Class B Compliance Notice

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

Important Safety Instructions

- Read all of these instructions.
- Follow all warnings and instructions marked on the product.
- Unplug this product from the wall outlet before installing an add-on card inside this product.
- Do not use this product near water.
- Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
- Slots and openings in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
- This product should be operated from the type of power source indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- This product is equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the purpose of the grounding-type plug. We recommend using the power cord supplied with the product. However, if another type of power cord is required, power cord H05VV-F should be used.
- Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
- Except as explained elsewhere in this manual, do not attempt to service this product yourself.
- Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power cord or plug is damaged or frayed.
 - If liquid has been spilled into the product.
 - If the product has been exposed to rain or water.
 - If the product does not operate normally when the operating instructions are followed.
 - If the product has been dropped or the cabinet has been damaged.
 - If the product exhibits a distinct change in performance, indicating a need for service.

Table of Contents

Preface				
Chapter 1	Introduction	9		
-	Features Specifications CPU, Memory, and Main Components Interfaces and Controllers	9 9		
Chapter 2	System Components	11		
	Major Components Block Diagram			
Chapter 3	Connector and Jumper Definition	15		
	Connector Definitions Internal Connectors External Connectors Jumper Settings CPU Jumper Settings Other Jumper Settings	16 16 17 17		
Chapter 4	CPU and Memory Installation	19		
	CPU Installation System Memory Installation			
Chapter 5	The SETUP Program	22		

List of Figures

.11
.15
.19
.20
.21
.21

List of Tables

Table 2-1.	Major Components Description	12
Table 3-1.	Internal Connector Definition	16
Table 3-2.	External Connector Definition	16
Table 3-3.	Internal Frequency Jumper Settings	17
Table 3-4.	Bus Frequency Jumper Settings	17
Table 3-5.	Other Jumper Settings	18
Table 5-1.	Keyboard Usage in the SETUP Program	23

Preface

This manual contains basic information necessary for both the end user and service personnel. Although most of the information you need are contained in this manual, we recommend you to contact an authorized dealer for service purposes. Making personal alterations to the system can violate the effectivity of your warranty.

This manual is divided into five chapters:

- Chapter 1, **Introduction**, lists the specifications and features of the motherboard.
- Chapter 2, **System Components**, describes the functions of the major system components.
- Chapter 3, **Connector and Jumper Definition**, provides the jumper and connector definitions.
- Chapter 4, CPU and Memory Installation, contains the CPU and memory installation information.
- Chapter 5, The SETUP Program, explains how you can configure your system by running the SETUP program.

Chapter 1 Introduction

This chapter introduces the specifications and the features of the motherboard.

Features

- 66/100/133 FSB Socket 370 CPU Support
- AGP Interface The host CPU interface, AGP (Accelerated Graphics Port) interface, 64-bit DRAM bus, and PCI interface are integrated into the system.
- **Plug and Play support** For automatic resource assignment, your system is PnP version 1.01a compliant.
- USB port support

The Universal Serial Bus standard gives you the benefits of having one single interface for multiple interfaces when low-to-medium speed peripherals are concerned.

• Power Management

Your system can reduce power consumption automatically while it is idle. It also supports the Windows 98/Windows NT 5.0 power management standard - ACPI (Advanced Configuration Power Interface).

Specifications

CPU, Memory, and Main Components

- CPU
 66/100/133 FSB Socket 370 microprocessor
- System Memory
 Three 168-pin DIMM sockets to support 8/16/32/64/128/256MB SDRAM
 memory modules, configurable up to 768MB

ROM BIOS

2Mb flash EEPROM, supporting audio, video, security, setup, and power management

Interfaces and Controllers

Apollo chipset

The chipset consists of the VT82C694X PCI AGP System Controller and the VT82C686A super I/O Controller.

• I/O Interfaces

The VT82C686A Super I/O supports:

- One standard/ECP/EPP parallel port (DB25-F)
- One RS-232C serial port (DB9-M)
- One PS/2 keyboard connector (6-pin mini-DIN)
- One PS/2 mouse connector (6-pin mini-DIN)
- Two USB ports and two 1394 ports on the rear panel
- Two PCI-IDE connectors for four IDE devices (jack)
- One floppy disk drive connector (jack)

Expansion Slots

- Five PCI slots
- One AGP slot

Chapter 2 System Components

This chapter introduces the components of the motherboard.

Major Components

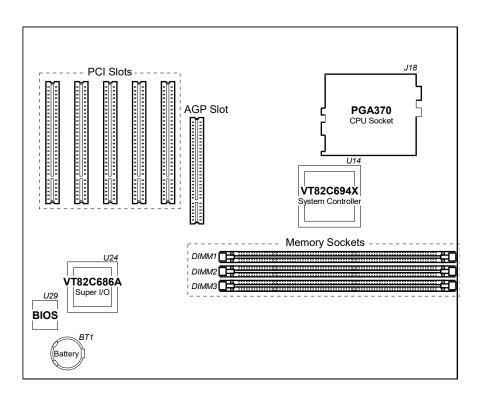


Figure 2-1. Major Components of System Board

Reference	Description	Name
DIMM1, DIMM2, DIMM3	 DIMM sockets: 64-bit data bus Three 168-pin 3.3V unbuffered DIMM sockets Supports 133MHz SDRAM module (SPD rev 1.1) 8, 16, 32, 64, 128 and 256MB DIMMs supported 	DIMM
J18	 66/100/133 CPU Socket 370 CPU: MMX technology Dynamic execution microarchitecture 32K (16K/16K) non-blocking L1 cache Integrated 128K/256K L2 cache Plastic Pin Grid Array (PPGA) / FC-PGA 	Intel CPU
		VT82C694X

(To be continued)

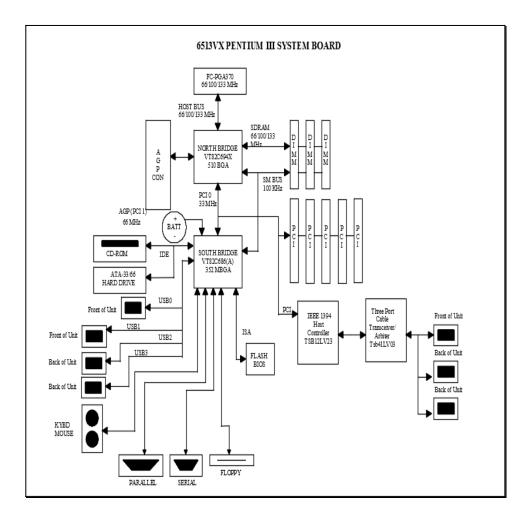
Table 2-1. Major Components Description

(Continued)

Reference	Description	Name
U24	• 352-pin BGA	VT82C686A
	 PCI-to-ISA bridge: PCI Rev2.1 Specification Supports PCI at 33MHz 	
	 Super I/O Control: Keyboard/mouse controller An FDD controller for 360KB, 720KB, 1.2MB, 1.44MB and 2.88MB FDD High speed NS16C550 compatible serial port IEEE 1284 PIO port 	
	Desktop deep green support	
	IDE/DMA control	
	82C59 interrupt control	
	USB interface	
	• 82C54 timer and real-time clock	
U29	System ROM:	Award
	 ACPI enabled 256Kx8 flash ROM for system BIOS, VGA BIOS, Plug & Play configuration tables, and power management Dynamic detect flash type Applies different code before flashing 	

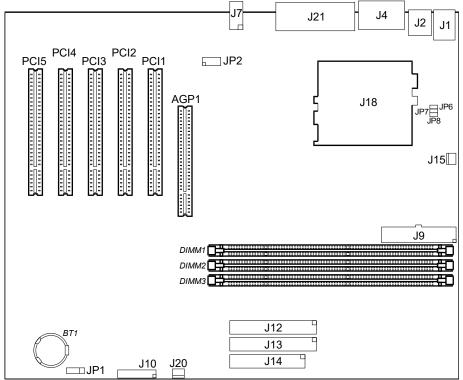
Table 2-1. Major Components Description

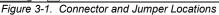
Block Diagram



Chapter 3 Connector and Jumper Definition

This chapter defines the connectors and jumpers on the motherboard.





Connector Definitions

Internal Connectors

Connector	Definition
J9	ATX power
J10 3-4 5-6 11-13 15-16	Suspend LED HDD LED Power LED Power button
J12	1 st IDE
J13	2 nd IDE
J14	FDD
J15	CPU fan
J18	CPU socket
J20	System fan
AGP1	AGP slot
BT1	Battery socket
DIMM1~3	DIMM sockets
PCI1~5	PCI slots

Table 3-1. Internal Connector Definition

External Connectors

Connector		Definition
J1	upper down	PS/2 mouse PS/2 keyboard
J2		USB
J4		Serial Port
J7		IEEE 1394
J21		Parallel port

Table 3-2. External Connector Definition

Jumper Settings

NOTE: Jumpers not described in this chapter are reserved for factory use only. Do not change the default settings.

CPU Jumper Settings

Pentium I		
Frequency (66/100/133MHz)	Clock Multiplier	JP2
200/300	3	1-2, 5-6, 7-8
233/350	3.5	1-2, 7-8
266/400/533	4	3-4, 5-6, 7-8
300/450/600	4.5	3-4, 7-8
333/500/667	5	5-6, 7-8
366/550/733	5.5	7-8
400/600/800	6	1-2, 3-4, 5-6
433/650/866	6.5	1-2, 3-4
466/700/933	7	1-2, 5-6
500/750	7.5	1-2
533/800	8	3-4, 5-6

Table 3-3. Internal Frequency Jumper Settings

Bus Frequency	JP6	JP7	JP8
Intel 66	Close	Open	Close
Intel 100/133	Open	Close	Open
Gobi 66	Close	Open	Close
Gobi 100	Close	Open	Open
Gobi 133	Open	Open	Open

Table 3-4. Bus Frequency Jumper Settings

Other Jumper Settings

Jumper	Definition	Setting
JP1	CMOS setting	1-2: Normal 2-3: Clear CMOS

* To clear the RTC and CMOS RAM, set JP1 to 2-3 for one second, and set it back to 1-2 again.

Table 3-5. Other Jumper Settings

Chapter 4 CPU and Memory Installation

NOTE: To avoid damage during installation, you are advised to ask your dealer for help.

NOTE: Static electricity can destroy electronic devices. Whenever you handle any option outside of its protective packaging, first discharge any static electricity from your body by touching a protective grounding device or unpainted metal on the rear panel of the system unit.

CPU Installation

To install CPU in a ZIF socket:

- 1. Find the ZIF socket (J18) on the motherboard. (See p.11.)
- 2. Lift the ZIF socket arm up to the vertical position.
- Align the CPU so its Pin 1 corner (beveled corner) is at the Pin 1 corner of the ZIF socket. Then insert the CPU's pins into the corresponding holes in the socket.

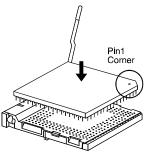


Figure 4-1. Inserting CPU

NOTE: You are suggested to install a cooling fan to cool the CPU. 4. Press the arm downwards to the horizontal position. You will feel some resistance while doing so. This is normal as the pressure starts to secure the CPU in place.

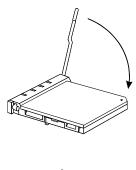




Figure 4-2. Installing CPU

System Memory Installation

1. Locate the DIMM sockets (DIMM1-3) on the motherboard.

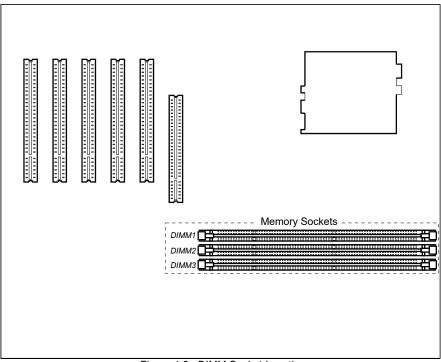


Figure 4-3. DIMM Socket Locations

2. Align the DIMM module with the socket and firmly insert the DIMM into the socket. Then, push the plastic clips to snap it into place.

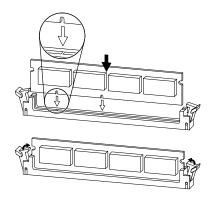


Figure 4-4. Installing DIMM Module

Chapter 5 The SETUP Program

This chapter tells you how to configure your system using the SETUP program.

Introduction

The SETUP program allows you to enter the system configuration information. This information is needed by the system to identify the type of devices installed and to set up special features.

The configuration information is stored in a special kind of memory called CMOS (Complementary Metal Oxide Semiconductor) RAM. CMOS RAM data are backed up by a RTC backup battery, so the data will not be lost when system power is turned off.

You need to run SETUP when:

- You see an error message on the screen requesting you to run SETUP.
- You want to update the configuration information for new hardware installed.
- You want to change factory default settings for some special features.

Starting SETUP

NOTE: The SETUP program may have been updated after this manual was published.

SETUP is built into the system board. To access the SETUP program, turn on the system and press [Del] immediately when you see the message that briefly appears at the bottom of the screen telling you how to enter SETUP.

The first SETUP menu (main menu) allows you to select from ten setup categories and two exit choices. Use the arrow keys to select among the items and press [Enter] to accept and enter the sub-menu.

Moving Around and Making Selections

In general, you use the arrow keys to highlight items and the [PageUp]/[+] and [PageDown]/[–] keys to change entries.

Description of keyboard usage is listed below. You can also find keyboard instructions on the menu screen.

Кеу	Description
[个], [↓]	Move the highlight to the previous or next item.
[←], [→]	Move the highlight to the item in the left or right.
[PageUp]/[+] [PageDown]/[–]	Cycle through the pre-defined values for the selected item. Pressing [PageUp] or [+] brings up the next value; pressing [PageDown] or [–] brings up the previous one.
[Esc]	 From the Main Menu, exit SETUP without saving. From a sub-menu, return to the Main Menu.
[F1]	General help information
[F5]	Restore the previous CMOS value from CMOS (available only in option setup menus).
[F6]	Load the basic default values (available only in option setup menus).
[F7]	Load the optimal default values (available only in option setup menus).
[F10]	Save all the CMOS changes (available only in the main menu).

Table 5-1. Keyboard Usage in the SETUP Program

Standard CMOS Features

The "Standard CMOS Features" category includes all the items in a standard, AT-compatible BIOS (Basic Input/Output System).

The followings describe in sequence all the items of this category.

Date/Time

The date and time might be incorrect when you start up your computer for the first time. Enter the correct value for each field. Note that the time is based on a 24-hour format.

IDE Primary/Secondary Master/Slave

This item sets the type of the hard disk drive in your computer. You can press [Enter] to go to the sub-items for settings.

Drive A/B

These items set the type of floppy disk drive in your computer.

Video

This item sets the type of display to be used in your computer.

Halt On

This item sets whether the system will stop if an error is detected during start up.

Advanced BIOS Features

The "Advanced BIOS Features" category includes all the items of your system's special enhanced features.

The followings describe in sequence all the items of this category.

Virus Warning

This item helps prevent computer viruses by monitoring the boot sector and partition table of the hard disk drive. If an attempt is made to modify the boot sector and partition table, the system will halt and the following error message will appear. Afterwards, if necessary, you can run an anti-virus program to locate and remove the problem before any damage is done.

NOTE:

- 1. Disable this item before installing an operating system.
- 2. Many disk diagnostic programs can cause this warning message because they attempt to access the boot sector table. If you will be running such a program, you may want to disable this item beforehand.

CPU Internal Cache, External Cache

This item enables or disables the cache of your system. The cache feature enhances system performance because the most frequently-used data is accessed from and written to the high-speed cache memory.

CPU L2 Cache ECC Checking

This item sets if the system will check the data in cache. The system performance will be slightly affected when this item is set to *Enabled*.

Processor Number Features

This item sets if the PSN (Processor Serial Number) of Pentium III is enabled. PSN, a new feature of Pentium III, serves as an electronic serial number for the processor. It offers security capabilities when used in applications that supports PSN system and user identification.

Quick Power On Self Test

This item, when enabled, speeds up the booting procedure by shortening or skipping some check items during POST.

First/Second/Third Boot Device, Boot Other Device

This item sets the sequence of booting, i.e., which drive to search first for the operating system.

Swap Floppy Drive

This feature allows you to exchange the drive names of the two floppy disk drives, if installed. Make sure that *Drive A* and *Drive B* item in the Standard CMOS Features menu are updated accordingly.

Boot Up Floppy Seek

This item sets if the system will verify the floppy disk drive type during POST.

Boot Up Numlock Status

This item sets if the Num Lock key will be automatically activated after system startup.

Gate A20 Option

This item uses the fast gate A20 line to access any memory above 1MB. Setting this item to make the access faster than the normal method.

Typematic Rate Setting

This item sets if the typematic rate is to be used. When disabled, continually holding down a key on your keyboard will generate only one instance. In other words, the BIOS will only report that the key is down. When the typematic rate is enabled, the BIOS will report as before, but it will then wait a moment, and, if the key is still down, it will begin the report that the key has been depressed repeatedly. For example, you would use such a feature to accelerate cursor movements with the arrow keys.

When this item is set to Enabled, the following two sub-items appear.

Typematic Rate (Chars/Sec)

This item sets the rate (in characters/second) at which the keys are accelerated.

Typematic Delay (Msec)

This item sets the delay (in msecond) between when the key was first depressed and when the acceleration begins.

Security Option

This item allows you to limit the access to the system and SETUP, or just to SETUP.

NOTE: Security takes effect only if a password is set. (See "Set Supervisor/User Password" in this chapter.)

OS Select for DRAM > 64MB

This item allows you to access the memory that is over 64MB in OS/2.

Advanced Chipset Features

The "Advanced Chipset Features" category includes all the items of chipset special features.

This category allows you to configure the system based on the specific features of the installed chipset. This chipset manages bus speeds and access to system memory resources, such as DRAM and the external cache. It also coordinates communications between the conventional ISA bus and the PCI bus. **Note that these items should never need to be altered.** The default settings have been carefully chosen by your system manufacturer to provide the absolute maximum performance and reliability.

Integrated Peripherals

The "Integrated Peripherals" category allows you to configure the on-board device controllers.

The followings describe in sequence all the items of this category.

Onchip IDE Channel 0/1

Your system includes two built-in IDE controllers, both of which operate on the PCI bus. Select *Disabled* only if you are using higher performance or specialized controller card instead of the on-board IDE controller.

IDE Prefetch Mode

This item allows your hard disk controller to transfer data to the IDE data ports.

Primary/Secondary Master/Slave PIO

Each of these four items sets the mode timing according to the IDE hard disk drives in your system. PIO means Programmed Input/Output. Rather than have the BIOS issue a series of commands to effect a transfer to or from the disk drive, PIO allows the BIOS to tell the controller what it wants and then let the controller and the CPU perform the complete task by themselves. This is simpler and more efficient (and faster). PIO mode concerns data transfer rate. It can be mode 0 to 4. Higher number indicates faster rate.

Primary/Secondary Master/Slave UDMA

These items set if the IDE hard disk drive supports UDMA (Ultra 33 synchronous DMA mode transfer).

Init Display First

This item allows the system to initialize the on-board AGP VGA first before initializing add-on PCI/ISA VGA cards. Select *Enabled* if you are using Windows 98's multi-display function.

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.

Onboard FDD Controller

This item allows you to enable or disable the on-board floppy disk drive controller. Select *Disabled* only if you want use a separate floppy disk drive controller card.

Onboard Serial Port 1

This item sets the I/O address and interrupt request line (IRQ) for the on-board serial port.

UART 2 Mode

This item sets the serial port standard depending on the device connected. The available options are *Standard*, *HPSIR*, and *ASKIR*. If you select *HPSIR* or *ASKIR*, the "IR Function Duplex" and "TX, RX inverting enable" sub-items will appear.

The available options of "IR Function Duplex" are *Half* and *Full*, while options of "TX, RX inverting enable" are *No*, *Yes*, *Yes*, *NO*, *Yes*, *Yes*, and *No*, *No*.

Onboard Parallel Port

This item sets the I/O address and interrupt request line (IRQ) for the on-board parallel port (LPT).

Power Management Setup

The "Power Management Setup" category allows you to configure you system to save energy.

The followings describe in sequence all the items of this category.

ACPI Function

This item enables or disables ACPI (Advanced Configuration Power Interface) - a power management standard used by Windows 98 and Windows NT 5.0.

Power Management

The following sub-items appear when you press Enter:

Power Management

This item allows you to select the type (or degree) of power saving.

HDD Power Down

This item sets the time-out period for the hard disk to power down if it is not in use during the set period. The hard disk will power up again when next accessed.

Doze Mode

This item sets the time-out period for the system to enter Doze mode if the system has been idle for the set period.

Suspend Mode

This item sets the time-out period for the system to enter Suspend mode if the system has been idle for the set period.

PM Control by APM

If the APM (Advanced Power Management) driver is installed, this item allows you to enable or disable control from APM.

Video Off Option

This item defines when the screen will be off. (The "off" status is defined by the next item, *Video Off Method*.)

Video Off Method

This item defines the screen-off status.

Soft-Off by PWRBTN

This item defines the Power/Suspend Button of the system.

** Wake Up Events **

This group of items specify the I/O event that will power up the system in soft-off mode. The available options are VGA, LPT & COM, HDD & FDD, PCI Master, Modem Ring Resume, RTC Alarm Resume, Primary INTR, and IRQs Activity Monitoring.

PnP/PCI Configurations

The "PnP/PCI Configurations" category allows you to configure the PnP/PCI bus system. PnP (Plug and Play) allows automatic allocation of the IRQ channel, memory address and I/O address for your system so that manual selection is not necessary. PCI (Personal 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.

NOTE: This setup menu is for technicians or advanced users only. You are not advised to change the default settings.

Load Fail-Safe / Optimized Defaults

If you select "Load Fail-Safe Defaults" or "Load Optimized Defaults" from the main menu, some default values will be loaded to the option setup menus such as Advanced BIOS Features, Advanced Chipset Features, Integrated Peripherals, Power Management Setup, and PnP/PCI Configuration menus.

The "Fail-Safe" default values have been set to assumedly provide minimum performance for the system. The settings are non-optimal and disable all high performance features.

The "Optimized" default values have been set to assumedly provide maximum performance for the system.

Set Password

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

- Supervisor password can enter and change the options of the setup menus.
- User password can only enter but do not have the right to change the options of the setup menus.

When you select this function, message will appear at the center of the screen to assist you in entering a password. Type the password and press [Enter]. Note the password is case-sensitive and can be up to eight characters in length. The password typed now will clear any previously entered password. You will be asked to confirm the password by typing it again and pressing [Enter].

To disable a password, just press [Enter] when you are prompted to enter the password. A message will confirm the password will be disabled. Once the password is disabled, the system will boot and you can enter SETUP freely.

When a password has been enabled, you will be prompted to enter it every time you try to enter Setup. This prevents an unauthorized person from changing any part of your system configuration.

Additionally, when a password is enabled, you can also require the BIOS to request a password every time your system is rebooted. This would prevent unauthorized use of your computer.

You determine when the password is required within the "BIOS Features Setup" menu and its Security option (see "BIOS Features Setup" in this chapter). 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.

NOTE: If you forget your password and wish to cancel it, ask your dealer to reset the CMOS RAM for you.

Exiting Setup

To exit the SETUP program, you can choose "Save & Exit Setup" or "Exit Without Saving" from the main menu.

After finished with your settings, you must save and exit SETUP so that the settings can take effect.