K6XV3+

Rev. AH+

System Board Carte Mère Manuel System-Platine

User's Manual Pour Utilisateur Benutzerhandbuch

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Caution:

Danger of explosion if battery incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer.

Dispose of used batteries according to the battery manufacturer's instructions.

FCC and DOC Statement on Class B

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 when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, 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 of 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 the 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.

Notice:

- The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- 2. Shielded interface cables must be used in order to comply with the emission limits.

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Note:

The user's manual in the provided CD contains detailed information about the system board. If, in some cases, some information doesn't match those shown in this manual, this manual should always be regarded as the most updated version. To view the user's manual, insert the CD into a CD-ROM drive. The autorun screen (Main Board Utility CD) will appear. Click "User's Manual".

1.1 Features and Specifications Caractéristiques et Spécifications Leistungsmerkmale und Technische Daten

I.I.I Features / Caractéristiques / Leistungsmerkmale

Chipset

VIA[®] MVP3 AGP system chipset

Processor

- AMD® K5 PR90/PR100/PR120/PR133/PR166, K6-166/200/233/ 266/300, K6-2/250/266/300/333/350/366/380/400/450/475/ 500/550 or K6-III/400/450/475/500/550
- Intel Pentium[®] 90/100/120/133/150/166/200MHz or Intel Pentium[®] processor with MMX[™] technology-166/200/233MHz
- Cyrix[®] 6x86L PR150+/PR166+/PR200+, 6x86MX-PR166/ PR200/PR233/PR266 or M II-200/266/300
- IBM® 6x86MX-PR200/PR233/PR266/PR300
- IDT[®] C6-180/200/225/240, WinChip2-200/225/233/240/266/ 300 or future WinChip3 series

System Memory

- 16MB to 768MB memory using unbuffered DIMMs
- Three 168-pin DIMM sockets
- PC-100 SDRAM DIMM for 100MHz external system bus clock processors
- ECC supported (uses x72 PC SDRAM DIMM)

| DIMMs | Memory Size | DIMMs | Memory Size |
|------------|-------------|-------------|-------------|
| 2MBx64/x72 | I 6MB | 16MBx64/x72 | 128MB |
| 4MBx64/x72 | 32MB | 32MBx64/x72 | 256MB |
| 8MBx61/x72 | 64MB | | |

Level 2 Cache Memory

512KB or IMB pipeline burst, direct map write-through cache installed on the system board.

Expansion Slots

The system board is equipped with I dedicated AGP slot, 3 dedicated PCI slots, 2 dedicated 16-bit ISA slots and I shared PCI/ ISA slot. All PCI and ISA slots are bus masters.

Desktop Management Interface (DMI)

The system board comes with a DMI 2.0 built into the BIOS. The

Introduction

DMI utility in the BIOS automatically records various information about your system configuration and stores these information in the DMI pool, which is a part of the system board's Plug and Play BIOS. DMI, along with the appropriately networked software, is designed to make inventory, maintenance and troubleshooting of computer systems easier.

ATX Double Deck Ports

- 2 USB ports
- 2 DB-9 serial ports
- I DB-25 parallel port
- I PS/2 mouse port
- | PS/2 keyboard port

Connectors

- I connector for IrDA interface
- 2 IDE connectors
- I floppy connector
- I 20-pin ATX power supply connector
- 2 fan connectors for CPU and AGP fans

PCI Bus Master IDE Controller

- Two PCI IDE interfaces support up to four IDE devices
- Ultra DMA/33 supported (Synchronous Ultra DMA mode data transfer rate up to a maximum of 33MB/sec.)
- ATA/66 hard drives detectable by the BIOS
- PIO Mode 3 and Mode 4 Enhanced IDE (data transfer rate up to 16.6MB/sec.)
- Bus mastering reduces CPU utilization during disk transfer
- ATAPI CD-ROM, LS-120 and ZIP supported

IrDA Interface

The system board is equipped with an IrDA connector for wireless connectivity between your computer and peripheral devices. It supports peripheral devices that meet the ASKIR or HPSIR standard.

USB Ports

The system board is equipped with two USB ports. USB allows data exchange between your computer and a wide range of simultaneously accessible external Plug and Play peripherals.

BIOS

- Award BIOS, Windows® 95/98 Plug and Play compatible
- Supports SCSI sequential boot-up
- Flash EPROM for easy BIOS upgrades
- IMBit flash memroy (2MBit optional, includes ACPI and SDMS functions)

Introduction

1.1.2 Intelligence / Intelligence / Intelligente Ausstattungsteile

Monitors Processor Temperature and Overheat Alarm

The system board is able to detect the temperature of the processor. An alarm will sound in case of processor overheat.

....................

Monitors Processor/AGP Fan Speed and Failure Alarm

The system board is able to detect the fan speed (RPM-Revolution Per Minute) and alerts you to attend to any irregularity that may damage your system.

Monitors Power Voltages and Failure Alarm

The system board is able to detect the output voltage of the power supply. An alarm will sound warning you of voltage irregularity.

Automatic Fan Control

With the system's power switched on, the processor's fan will rotate only if the temperature of the processor is over 25° C.

Dual Function Power Button

Depending on the setting in the BIOS setup, this switch will allow your system to enter the Soft-Off or Suspend mode.

External Modem Ring-on

The Modem Ring-on feature allows the system that is in the Suspend mode or Soft Power Off mode to wake-up/power-on to respond to incoming calls. This feature supports external modem only. If you are using this function, make sure to turn on the power of the modem prior to powering-off the system.

RTC Timer to Power-on the System

The RTC installed on the system board allows your system to automatically power-on on the set date and time.

ACPI

The system board is designed to meet the ACPI (Advanced Configuration and Power Interface) specification. ACPI has energy saving features that enables PCs to implement Power Management and Plug-and-Play with operating systems that support OS Direct Power Management.

Virus Protection

Most viruses today destroy data stored in hard drives. The system board is designed to protect the boot sector and partition table of your hard disk drive.

1.2 Package Checklist Liste de Vérification de l'Emballage Verpackungsliste

The system board package contains the following items:

- \blacksquare The system board
- ☑ A user's manual
- ☑ One 40-pin IDE hard disk cable
- ☑ One 34-pin floppy disk drive cable
- ☑ One CD

If any of these items are missing or damaged, please contact your dealer or sales representative for assistance.

Chapter 2 - Hardware Installation Installation du Matériel Installation der Hardware

2.1 System Board Layout Position de la Carte Système Aufbau der Hauptplatine



2.2 DIP Switch and Jumper Settings of the Processors Positionnement des Cavaliers sur le Processeurs DIP Schaltereinstellungen für den Prozessor



DIP Switch Settings for Intel Processors

| Intel Processors | SW2: 1-6 | Intel Processors | SW2: 1-6 |
|------------------------|---|---------------------------|---|
| 90MHz - | 0 2 3 4 5 6 | 66MHz - | 0 1 2 3 4 5 6 |
| 60MHz - 1.5x | ↑ ↓ ↓ ↓ ↓ ↓ ↓ ↓ | 66MHz - 2.5x | ↑ • • • • • • • • |
| 100MHz - | 0 1 2 3 4 5 6 | 200MHz - | 0 1 2 3 4 5 6 |
| 66MHz - 1.5x | N ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ | 66MHz - 3x | N ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ |
| 120MHz - | 0 1 2 3 4 5 6 | MMX166MHz* - | 0 1 2 3 4 5 6 |
| 60MHz - 2x | ↑ • • • • • • • • | 66MHz - 2.5x | N ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ |
| 133MHz - 66MHz - 2x | 0 1 2 3 4 5 6 N 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | MMX200MHz - 66MHz - 3x | 0 1 2 3 4 5 6 ↑ ■ ■ ■ ■ ■ ■ |
| 150MHz - | 0 1 2 3 4 5 6 | MMX233MHz - | 0 1 2 3 4 5 6 |
| 60MHz - 2.5x | ↑ | 66MHz - 3.5x | N ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ |

* Default

Hardware Installation

DIP Switch Settings for AMD Processors

| AMD Processors | SW2: 1-6 | AMD Processors | SW2: 1-6 |
|----------------------------|---|--|---|
| K5 PR90 - | 0 1 2 3 4 5 6 | K6-2/333 - | 0 1 2 3 4 5 6 |
| 60MHz - 1.5x | ↑ ■ ■ ■ ■ ■ ■ ■ | 66MHz - 5x | ↑ • • • • • • • • |
| K5 PR100 - | 0 1 2 3 4 5 6 | K6-2/333 - | 0 2 3 4 5 6 |
| 66MHz - 1.5x | ↑ • • • • • • • • | 95MHz - 3.5x | N |
| K5 PR120 - 60MHz - 2x | O I 2 3 4 5 6 ↑ ■ ■ ■ ■ ■ ■ ■ ■ | K6-2/350 - 100MHz - 3.5x | 0 1 2 3 4 5 6 1 0 1 2 3 4 5 6 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| K5 PRI 33 - 66MHz - 2x | 0 1 2 3 4 5 6 ↑ • • • • • • • • | K6-2/366 - 66MHz - 5.5x | 0 2 3 4 5 6 N 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| K5 PR166 - 66MHz - 2.5x | 0 1 2 3 4 5 6 ↑ • • • • • • • • | K6-2/380 - 95MHz - 4x | 0 1 2 3 4 5 6 N 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| K6-166 - 66MHz - 2.5x | 0 2 3 4 5 6 N 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | K6-2/400 - 100MHz - 4x | 0 1 2 3 4 5 6 ↑ |
| K6-200 - | 0 1 2 3 4 5 6 | K6-2/450 - | 0 2 3 4 5 6 |
| 66MHz - 3x | ↑ • • • • • • • • | 100MHz - 4.5x | 1 |
| K6-233 - | 0 1 2 3 4 5 6 | K6-2/475 - | 0 2 3 4 5 6 |
| 66MHz - 3.5x | ↑ ■ ■ ■ ■ ■ ■ | 95MHz - 5x | 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| K6-266 - | 0 1 2 3 4 5 6 | K6-2/500 - | $ \begin{array}{c} 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$ |
| 66MHz - 4x | ↑ • • • • • • • • | 100MHz - 5x | |
| K6-300 - | 0 1 2 3 4 5 6 | K6-III/400 - | 0 1 2 3 4 5 6 |
| 66MHz - 4.5x | 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 100MHz - 4× | 1 1 1 1 1 1 1 1 1 1 |
| K6-2/250 - | 0 1 2 3 4 5 6 | K6-111/450 - | 0 1 2 3 4 5 6 |
| 100MHz - 2.5x | 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 100MHz - 4.5x | 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| K6-2/266 - | 0 1 2 3 4 5 6 | K6-III/475 - | 0 1 2 3 4 5 6 |
| 66MHz - 4x | 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 95MHz - 5x | ↑ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| K6-2/300 - 66MHz - 4.5x | 0 2 3 4 5 6 ↑ | K6-III/500 - 100MHz - 5x | 0 1 2 3 4 5 6 1 0 1 2 3 4 5 6 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| K6-2/300 - 100MHz - 3x | 0 1 2 3 4 5 6 1 1 1 1 1 1 1 1 1 1 | K6-2/550, K6-III/550 - 100MHz - 5.5x | 0 1 2 3 4 5 6 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |

DIP Switch Settings for Cyrix Processors

| Cyrix Processors | SW2: 1-6 | Cyrix Processors | SW2: 1-6 |
|--------------------------------|--|--------------------------|---|
| 6x86L PR150+ - | 0 1 2 3 4 5 6 | 6x86MX-PR266 - | 0 2 3 4 5 6 |
| 60MHz - 2x | ↑ • • • • • • • • | 83MHz - 2.5x | N 0 0 0 0 0 0 0 0 0 |
| 6x86L PR166+ - | 0 2 3 4 5 6 | M II-200 - | 0 1 2 3 4 5 6 |
| 66MHz - 2x | ↑ ■ ■ 0 ■ ■ | 66MHz - 2.5x | ↑ |
| 6x86L PR200+ - | 0 1 2 3 4 5 6 | M II-266 - | 0 1 2 3 4 5 6 |
| 75MHz - 2x | ↑ • • • • • • • • | 66MHz - 3x | ↑ ■ ■ ■ ■ ■ ■ ■ |
| 6x86MX-PR166 - | 0 2 3 4 5 6 | M II-300 - | 0 1 2 3 4 5 6 |
| 60MHz - 2.5x | 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 66MHz - 3.5x | ↑ ■ ■ ■ ■ ■ ■ |
| 6x86MX-PR200 - 66MHz - 2.5x | 0 1 2 3 4 5 6 ↑ • • • • • • • | M II-300 - 75MHz - 3x | 0 1 2 3 4 5 6 1 0 1 2 3 4 5 6 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 6x86MX-PR233 - 75MHz - 2.5x | 0 1 2 3 4 5 6 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | |

DIP Switch Settings for IBM Processors

| IBM Processors | SW2: 1-6 | IBM Processors | SW2: 1-6 |
|--------------------------------|------------------------------------|----------------|---|
| 6×86MX-PR200 - | 0 1 2 3 4 5 6 | 6x86MX-PR300 - | 0 2 3 4 5 6 |
| 66MHz - 2.5× | ↑ • • • • • • • • | 66MHz - 3.5x | N ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ |
| 6x86MX-PR233 - | 0 1 2 3 4 5 6 | 6x86MX-PR300 - | 0 2 3 4 5 6 |
| 75MHz - 2.5x | ↑ • • • • • • • • | 75MHz - 3x | ↑ ■ ■ ■ ■ ■ ■ |
| 6x86MX-PR266 - 83MHz - 2.5x | 0 1 2 3 4 5 6 ↑ • • • • • • • • | | |

Hardware Installation

| DIP | Switch | Settings | for | IDT | Processors |
|-----|--------|----------|-----|-----|------------|
|-----|--------|----------|-----|-----|------------|

| IDT Processors | SW2: 1-6 | IDT Processors | SW2: 1-6 |
|---------------------|---|--------------------------------|----------------------------------|
| C6-180 - 60MHz - 3x | 0 1 2 3 4 5 6 | WinChip2-225 - | 0 1 2 3 4 5 6 |
| | ↑ • • • • • • • | 75MHz - 3x | ↑ ■ ■ ■ ■ ■ ■ |
| C6-200 - 66MHz - 3x | 0 2 3 4 5 6 N 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | WinChip2-233 - 66MHz - 3.5x | O I 2 3 4 5 6 ↑ • • • • • • • |
| C6-225 - 75MHz - 3x | 0 2 3 4 5 6 N 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | WinChip2-240 - 60MHz - 4x | 0 2 3 4 5 6 ↑ ↓ ↓ ↓ ↓ ↓ ↓ |
| C6-240 - 60MHz - 4x | 0 2 3 4 5 6 | WinChip2-266 - | 0 2 3 4 5 6 |
| | ↑ | 100MHz - 2.33x | ↑ |
| WinChip2-200 - | 0 1 2 3 4 5 6 | WinChip2-300 - | 0 1 2 3 4 5 6 |
| 66MHz - 3x | ↑ • • • • • • • • | 100MHz - 2.5x | ↑ ↓ ↓ ↓ ↓ ↓ ↓ ↓ |

External System Bus Clock / Frequency Ratio - DIP Switch Settings

If the processor you are using is not included in the previous tables, please refer to the tables below and set SW2 according to the external system bus clock and frequency ratio of your processor.

Frequency Ratio Settings for Intel, Cyrix, IBM and AMD Processors

| Frequency Ratio | SW2: 1-3 | Frequency Ratio | SW2: 1-3 |
|-----------------|---|-----------------|-------------------------|
| 1.5x / 3.5x | 0 1 2 3 1 3 | 4x | 0 1 2 3 N ↑ |
| 2x | 0 1 2 3 N T | 4.5× | 0 1 2 3 N ↑ ↓ ↓ ↓ |
| 2.5x | 0 1 2 3 ↑ • • • | 5x | 0 2 3 ↑ ↓ ↓ |
| Зx | 0 1 2 3 N 1 0 0 | 5.5x | 0 I 2 3 N ↑ |

| Frequency Ratio | SW2: 1-3 | Frequency Ratio | SW2: I-3 |
|-----------------|--------------------|-----------------|-------------------------|
| 3.5× | 0 2 3 ↑ ■ ■ ■ | 4x | 0 I 2 3 N ↑ |
| 2x/3.3x | 0 2 3 1 0 0 0 | 4.5× | 0 I 2 3 N ↑ □ □ □ |
| 2.5× | 0 1 2 3 ↑ ■ 0 | 2.33x/5x | 0 2 3 ↑ 0 0 |
| Зх | | 2.66x/5.5x | 0 1 2 3 ↑ |

Frequency Ratio Settings for IDT Processors

External System Bus Clock Settings

| External System Bus Clock | SW2: 4-6 | External System Bus Clock | SW2: 4-6 |
|---------------------------|-----------------------|---------------------------|-------------------------------|
| 60MHz | 0 4 5 6 N ↑ | 83MHz | 0 4 5 6 N ↓ ↓ ↓ |
| 66MHz | 0 4 5 6 N ■ ■ ■ | 95MHz | 0 4 5 6 N ↓ ↓ ↓ |
| 75MHz | 0 4 5 6 N 1 0 0 | 100MHz | 0 4 5 6 N □ □ □ ↑ ■ ■ ■ |



Warning/Attention/Warnung: We do not guarantee that 75MHz, 83MHz, 95MHz and 100MHz external system bus clock processors will work with all types of add-in cards, memory modules or other devices.

Nous ne garantissons pas que les processeurs d'horloge de bus système externes de 75MHz, 83MHz, 95MHz et 100MHz fonctionneront avec tous les types de cartes ajoutées, les modules ou autres matériels.

Wir garantieren nicht, daß Prozessoren mit externem Systembustakt von 75, 83, 95 und 100 MHz mit allen Zusatzkarten, Modulen oder anderen Geräten arbeiten.

Hardware Installation

| Voltage | JP8 | SWI | Voltage | JP8 | SWI |
|---------|---------------|---|---------|---------------|---|
| 2.0V | 2 3 ■● ○ | 0 1 2 3 4 ↑ ■ ■ ■ ■ | 2.8V* | I 2 3 ■● ○ | 0 1 2 3 4 N |
| 2.1V | I 2 3 ■● ○ | O I 2 3 4 N I I I I I I I I I I I I I I I I I I I | 2.9V | I 2 3 ■● ○ | 0 1 2 3 4 ↑ |
| 2.2V | I 2 3 ■● ○ | 0 1 2 3 4 ↑ ■ ■ ■ ■ | 3.0V | I 2 3 ■● ○ | 0 1 2 3 4 ↑ ↓ ↓ ↓ ↓ |
| 2.3V | I 2 3 ■●○ | 0 1 2 3 4 ↑ • • • • • • | 3.IV | I 2 3 ■● ○ | 0 1 2 3 4 ↑ • • • • • |
| 2.4V | I 2 3 ■● ○ | 0 1 2 3 4 ↑ • • • • • | 3.2V | 2 3 ■● ○ | 0 1 2 3 4 N ↑ |
| 2.5V | I 2 3 ■● ○ | 0 1 2 3 4 N ↑ | 3.3V | 2 3 ∎ œ | 0 1 2 3 4 N |
| 2.6V | I 2 3 ■● ○ | 0 1 2 3 4 ↑ ■ ■ ■ ■ | 3.4V | I 2 3 ■ 🕶 | 0 1 2 3 4 N 1 2 3 4 |
| 2.7V | | 0 1 2 3 4 1 1 2 3 4 1 1 2 3 4 | 3.5∨ | I 2 3 ■ ⊕ | 0 1 2 3 4 N ↑ |

DIP Switch and Jumper Settings for Core Voltage

* Default

2.3 Jumper Settings for Clearing CMOS Data Positionnement des Cavaliers pour Effacer les Données CMOS

Jumpereinstellungen zum Löschen der CMOS Daten

Jumper JP9 - Clear CMOS Data

To load the default values stored in the ROM BIOS, please follow the steps below.

- I. Power-off the system and unplug the power cord.
- 2 Set JP9 pins I and 2 to On. Wait for a few seconds and set JP9 back to its default setting, pins 2 and 3 On.
- 3. Plug the power cord and power-on the system.





I-2 On:

Clear CMOS Data

| Ι | 2 | 3 |
|---|---|------------|
| | 0 | \bigcirc |

2-3 On: Normal (default)

2

Hardware Installation

2.4 Jumper Settings for SDRAM Clock (DIMM)

Positionnement des Cavaliers d'Horloge SDRAM (DIMM)

Brückeneinstellungen für SDRAM-Takt (DIMM)

Jumper JP30 - SDRAM Clock

JP30 is used to set the SDRAM's clock according to the CPU clock or AGP clock. If you are using PC-100 SDRAM DIMMs, it is recommended that you set the SDRAM clock according to the CPU clock (2-3 On). This setting will provide better system performance specially when used with 75/83/95/ 100MHz processors. However, if you encounter compatibility problems with PC-100 SDRAM DIMMs or you are using EDO / PC-66 SDRAM DIMMs, set the SDRAM clock according to the AGP clock (1-2 On).







I-2 On: SDRAM CLK = AGP CLK (default)

| | 2-3 Or | ר: | |
|-------|--------|-----|-----|
| SDRAM | CLK = | CPU | CLK |

| CPU CLK | SDRAM CLK | AGP CLK | CPU CLK |
|---------|-----------|---------|---------|
| 60MHz | 60MHz | 60MHz | 60MHz |
| 66MHz | 66MHz | 66MHz | 66MHz |
| 75MHz | 60MHz | 60MHz | 75MHz |
| 83MHz | 66MHz | 66MHz | 83MHz |
| 95MHz | 66MHz | 66MHz | 95MHz |
| 100MHz | 66MHz | 66MHz | 100MHz |

| CPU CLK | SDRAM CLK | AGP CLK |
|---------|-----------|---------|
| 60MHz | 60MHz | 60MHz |
| 66MHz | 66MHz | 66MHz |
| 75MHz | 75MHz | 60MHz |
| 83MHz | 83MHz | 66MHz |
| 95MHz | 95MHz | 66MHz |
| 100MHz | 100MHz | 66MHz |

Hardware Installation

2.5 Connectors / Connecteurs / Anschlüsse

2.5.1 Floppy Disk Drive Controller and IDE Interface Contrôleur de Lecteur de Disquette et Interface IDE Diskettenlaufwerkcontroller und IDE Interface





Important:

If you encountered problems while using an ATAPI CD-ROM drive that is set in Master mode, please set the CD-ROM drive to Slave mode. Some ATAPI CD-ROMs may not be recognized and cannot be used if incorrectly set in Master mode.

2.5.2 LEDs and Switches Commutateurs et LED LEDs und Schalter



2

Hardware Installation

| | Pin | Pin Assignment |
|--|----------------------------|--|
| SP-LED (ATX 5VSB Standby LED) | 2 | ATX Power Ground |
| | 3 | Open |
| HD-LED (Primary/Secondary IDE LED) | 4 5 | HDD HDD LED Power |
| | 6 | Open |
| G-LED (Green LED) | 7 8 | Green LED Power Green |
| | 9 | Open |
| ATX-SW (ATX power switch) | 0 | PWRBT Ground |
| | 12 | Open |
| G-SW (Green switch) | 3 4 | SMI Ground |
| | 15 | Open |
| H-RST (Reset switch) | 6 7 | H/W Reset Ground |
| | 18 | Open |
| SPEAKER (Speaker connector) | 19 20 21 22 | Speaker Power Ground N. C. Speaker |
| | 23 | Open |
| KEYLOCK (Keylock and Power LED connector) | 24 25 26 27 28 | LED Power N. C. Ground Keylock Ground Use pins 24 to 26 for the Power LED. |



Important:

ATX-SW (ATX Power Switch) - Depending on the setting in the BIOS setup, this switch is a "dual function power button" that will allow your system to enter the Soft-Off or Suspend mode. Refer to section 3.5 (chapter 3) for more information.

2.5.3 IrDA Connector Connecteur IrDA IrDA Anschlüsse

| Pin | Function | |
|-----|----------|--|
| I | IRTX | |
| 2 | GND | |
| 3 | IRRX | |
| 4 | N. C. | |
| 5 | VCC | |



Note:

The sequence of the functions on some IrDA cables may be reversed from the pin functions defined on the system board. Make sure to connect the cable to the IrDA connector according to their pin functions.

2.5.4 CPU Fan Connector

Connecteur du Ventilateur de CPU CPU Kühlung Anschluß



| I 2 3 ■00 | Pin | Function |
|--------------|-----|----------|
| | I | GND |
| | 2 | + 2V |
| | 3 | Sense |

Hardware Installation

2

2.5.5 AGP Fan Connector Connecteur de Ventilateur AGP Anschluß AGP Kühlung

| Function |
|----------|
| GND |
| +12V |
| Sense |
| |



2.5.6 Power Connector Connecteur d'Alimentation Netzanschluß





| Pin | Function | Pin | Function |
|-----|----------|-----|----------|
| | 3.3V/14A | | 3.3V/14A |
| 2 | 3.3V/14A | 12 | -12V |
| 3 | COM | 13 | COM |
| 4 | +5V | 14 | PS-ON |
| 5 | COM | 15 | COM |
| 6 | +5V | 16 | COM |
| 7 | COM | 17 | COM |
| 8 | PW-OK | 18 | -5V |
| 9 | 5VSB | 19 | +5V |
| 10 | +12V | 20 | +5V |

Chapter 3 - Award BIOS Setup Utility Utilitaire de Configuration du Award BIOS AWARD BIOS Konfigurationsprogramm

3.1 Entering the Award BIOS Setup Utility Entrer Dans l'Utilitaire de Configuration du Award BIOS Aufruf des AWARD BIOS Konfigurationsprogramms

Power-on the system and press to enter the utility. The main program screen will appear.

Allumez le Système et appuyez sur pour entrer dans l'utilitaire. L'écran du programme principal apparaîtra.

Zum Aufrufen des Konfigurationsprogramms drücken Sie während des Startvorgangs die Taste . Ein Bildschirm ähnlich dem folgenden erscheint.

ROM PCI/ISA BIOS CMOS SETUP UTILITY AWARD SOFTWARE, INC.

| STANDARD CMOS SETUP BIOS FEATURES SETUP CHIPSET FEATURES SETUP POWER MANAGEMENT SETUP PNP/PCI CONFIGURATION LOAD FAIL-SAFE SETTINGS LOAD OPTIMAL SETTINGS | INTEGRATED PERIPHERALS SUPERVISOR PASSWORD USER PASSWORD IDE HDD AUTO DETECTION SAVE & EXIT SETUP EXIT WITHOUT SAVING |
|---|--|
| Esc : Quit F10 : Save & Exit Setup | $ \begin{array}{rcl} \uparrow \downarrow \rightarrow \leftarrow & : & \text{Select Item} \\ (\text{Shift}) \text{F2} & : & \text{Change Color} \end{array} $ |

3.2 Setting the Date and Time Paramétrage de la Date et de l'Heure Einstellen des Datums und der Zeit

| Time (hh:mm:ss) : 13: | 27: 50 | | UEAD | | | anamon | |
|------------------------|---------|------|------|---------|---------|-----------|----------|
| HARD DISKS IN | PE SIZE | CYLS | HEAD | PRECOMP | LANDZ | SECTOR | MODE |
| Primary Master : Au | ito 0 | 0 | 0 | 0 | 0 | 0 | Auto |
| Primary Slave : Au | ito 0 | 0 | 0 | 0 | 0 | 0 | Auto |
| Secondary Master : Au | ito 0 | 0 | 0 | 0 | 0 | 0 | Auto |
| Secondary Slave : Au | ito 0 | 0 | 0 | 0 | 0 | 0 | Auto |
| Drive A : 1.44M, 3.5 i | n. | | | _ | | | |
| Drive B : None | | | | | Base | Memory | : 640H |
| | | | | | Extende | d Memory | : 64512H |
| Video · EGA/VGA | | | | | Othe | er Memory | : 384F |
| Halt on : All Errors | | | | | Tot | al Memory | · 65536k |

DOM DOLISA DIOS

 Select "Standard CMOS Setup" in the main program screen and press <Enter>.

Sélectionnez "Standard CMOS Setup" dans l'écran du programme principal et appuyez sur <Entrée>.

"Standard CMOS Setup" in dem Hauptbildschirm auswählen, und die Eingabetaste (Enter) drücken.

2. Set the correct date and time in the "Date" and "Time" fields respectively.

Sélectionnez la date et l'heure correcte dans les champs "Date" et "Time" respectivement.

Jeweils korrekte Werte in die Eingabefelder "Date" (Datum) und "Time" (Zeit) eingeben.

3.3 Selecting the Hard Drive and Floppy Drive Type Sélectionnez le Type de Disque Dur et de Lecteur de Disquette

Auswahl der Festplatte und des Diskettenlaufwerks

ROM PCI/ISA BIOS STANDARD CMOS SETUP AWARD SOFTWARE, INC.

| Date (mm:dd:yy) : Fri, Jul 17 1998 Time (hh:mm:ss) : 13: 27: 50 | | | | | | | | | |
|---|-----------|------|-------------------|------------|---------------|------------------------|---------|-----------|----------|
| HARD DISKS | TYPE | SIZE | CYLS | HEA | D | PRECOMP | LANDZ | 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, 3.5 in. Drive B : None Video : EGA/VGA Base Memory : 640K Extended Memory : 64512K Other Memory : 384K | | | | | | 640K 64512K 384K | | | |
| Halt on : All Erro | ors | | | | | | Tota | al Memory | : 65536K |
| Esc : Quit F10 : Save & I | Exit Setu | p (| ↑↓→← (Shift)F2 | - : 2 : | Selec Chan | et Item Ige | PU/PD/+ | /- : Mod | ify |

1. Select "Standard CMOS Setup" in the main program screen and press <Enter>.

Sélectionnez "Standard CMOS Setup" dans l'écran du programme principal et appuyez sur <Entrée>.

"Standard CMOS Setup" in dem Hauptbildschirm auswählen, und die Eingabetaste (Enter) drücken.

2 Select "Auto" for the hard disk drive(s) installed in your system. The BIOS will auto-detect the HDD & CD-ROM drive at the POST stage and show the IDE for the HDD & CD-ROM drive. If a hard disk has not been installed, select "None" and press <Enter>.

Sélectionnez "Auto" pour le(s) disque(s) dur(s) installés dans votre système. Le BIOS détectera automatiquement le Disque Dur et le Lecteur CD-ROM durant la phase POST et affichera l'IDE du Disque Dur et du Lecteur CD-ROM. Si aucun disque dur n'a été installé, sélectionnez "None" et appuyez sur <entrée>.

Im Eintrag "Hard Disk Drive(s)" (Festplatte) "Auto" auswählen. Das Programm entdeckt die Festplatte sowie das CD-ROM Laufwerk während der Initialisierung automatisch. Ist keine Festplatte installiert, aktivieren Sie den Eintrag "None". Eingabetaste (Enter) drücken.

- 3
- 3. Set the type of floppy drive installed in the "Drive A" and "Drive B" fields. The options are None, 360K, 1.2M, 720K, 1.44M and 2.88M.

Paramétrez le type de lecteur de disquette installé dans les champs "Drive A" et "Drive B". Les options sont None, 360K, I.2M, 720K, I.44M et 2.88M.

Im Eintrag "Floppy Drive" (Diskettenlaufwerk) wählen Sie "Drive A" (Laufwerk A) und "Drive B" (Laufwerk B). Die Optionen sind None (Kein), 360K, 1.2M, 720K, 1.44M und 2.88M.

3.4 Selecting the Drive to be Searched First for an Operating System

Sélectionner le Lecteur qui doit être Détecté en premier par un Système d'Exploitation

Auswahl des Bootlaufwerks

ROM PCI/ISA BIOS BIOS FEATURES SETUP AWARD SOFTWARE, INC.

| Virus Warning : Disa CPU Internal Cache : Enal External Cache : Enal Quick Power On Self Test : Enal Boot Sequence : A, C Swap Floppy Drive : Disa Boot Up Floppy Seek : Disa Boot Up Floppy Seek : Disa Typematic Rate (Chars/Sec) : 6 Typematic Delay (Msec) : 250 Security Option : Setup PCIV/GA Palette Snoop : Disa OS Select For DRAM > 64MB : Non- HDD S.M.A.R.T. Capability : Disa | bled Video BIOS Shadow : Enabled led C8000-CBFFF Shadow : Disabled led Disabled SCSI Disabled bled D000-D3FFF Shadow : Disabled Ded D8000-D3FFF Shadow : Disabled D8000-D3FFF Shadow : Disabled D4000-D3FFF Shadow : Disabled Ded D8000-DBFFF Shadow : Disabled Ded CSI D000-DFFFF Shadow : Disabled Ded FI : Help PU/PD/+/- : Modify F5 : Old Values (Shift) F2 : Color F6 : Load Fail-Safe Settings F7 : Load Optimal Settings F7 : Load Optimal Settings |
|---|---|
|---|---|

I. Select "BIOS Features Setup" in the main program screen and press <Enter>.

Sélectionnez "BIOS Features Setup" dans l'écran de programme principal et appuyez sur <Entrée>.

"BIOS Features Setup" in dem Hauptbildschirm auswählen, und die Eingabetaste (Enter) drücken.

2 Select the drive to be searched first in the "Boot Sequence" field. The default is A, C, SCSI. The other options are: C, A, SCSI; C, CDROM, A; CDROM, C, A; D, A, SCSI; E, A, SCSI; F, A, SCSI; SCSI, A, C; SCSI, C, A; C only and LS/ZIP, C.

Sélectionnez le lecteur qui devra être détecté en premier dans le champs "Boot Sequence". La valeur par défaut est A, C, SCSI. Les autres options sont: C, A, SCSI; C, CDROM, A; CDROM, C, A; D, A, SCSI; E, A, SCSI; F, A, SCSI; SCSI, A, C; SCSI, C, A; C seulement et LS/ZIP, C.

Im "Boot Sequence" Feld wählen Sie die Sequenz, in welcher der Computer nach einem Betriebssystem sucht. Die Optionen sind C, A, SCSI; C, CDROM, A; CDROM, C, A; D, A, SCSI; E, A, SCSI; F, A, SCSI; SCSI, A, C; SCSI, C, A; nur C und LS/ZIP, C.

ROM PCI/ISA BIOS

3.5 Selecting the Method of Powering-off the System Sélection de la Méthode pour Eteindre le Système Auswahl der Abschaltmethode

DOWED

| AWARD SOFTWARE, INC. | | | | | |
|---|--|--|--|--|--|
| Power Management PM Control by APM Video Off Method Video Off After Standby Mode Suspend Mode HDD Power Down Soft-Off by PWRBTN Resume on Ring Resume on Alarm | : User Define : Yes : DPMS : Suspend : Disabled : Disabled : Instant-Off : Disabled : Disabled : Disabled | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | |

I. Select "Power Management Setup" in the main program screen and press <Enter>.

Sélectionnez "Power Management Setup" dans l'écran de programme principal et appuyez sur <Entrée>.

"Power Management Setup" in dem Hauptbildschirm auswählen, und die Eingabetaste (Enter) drücken.

2. Select the method of powering-off the system in the "Soft-Off by PWRBTN" field. The options are Hold 4 Sec. and Instant-Off.

Sélectionnez la Méthode pour éteindre le système dans le champ "Soft-Off by PWRBTN". Les options sont Hold 4 Sec. et Instant-Off.

In dem Feld "Soft-Off by PWRBTN" können Sie die Methode bestimmen, mit welcher Ihr Rechner ausgeschaltet wird. Die Optionen sind Hold 4 Sec. (4 Sekunden warten) und Instant-Off (Direktabschaltung).

Hold 4 Sec.

If the power button is pushed and released in less than 4 seconds, the system enters the Suspend mode. Push and release it again in less than 4 seconds to restore. Pushing the power button for more than 4 seconds will power-off the system.

Si le bouton de mise sous tension est poussé puis relâché en moins de 4 secondes, le système entrera en mode suspend. Poussez le et relâchez le à nouveau en moins de 4 secondes pour restaurer la fonction. Le fait d'appuyer sur le bouton de mise sous tension pendant plus de 4 secondes éteindra le système.

Wird die Netztaste gedrückt und innerhalb von 4 Sekunden wieder losgelassen, schaltet sich das System in den Suspend-Modus. Ein erneutes Drücken mit einem Loslassen innerhalb von 4 Sekunden stellt den Normalzustand wieder her. Wird die Netztaste für die Dauer von über 4 Sekunden gedrückt gehalten, schaltet sich das System ab.

Instant-Off

Pressing and then releasing the power button at once will immediately power-off the system.

Le fait d'appuyer sur le bouton de mise sous tension en une fois éteindra le système immédiatement.

Normales Drücken der Netztaste schaltet das System augenblicklich ab.

3.6 Using the System Health Monitor Function Utilisez de System Health Monitor Arbeiten der System Health Monitor

| DIMM 1 DRAM Timing DIMM 2 DRAM Timing DIMM 3 DRAM Timing SDRAM CAS Latency SDRAM Bank Interleave DRAM Read Pipeline Sustained 3T Write Cache Pipeline Video BIOS Cacheable Memory Hole at 15M-16M AGP Aperture Size (MB) AGP-2X Mode CPU to PCI Write Buffer PCI Daynamic Bursting PCI Master 0 WS Write PCI Delay Transaction | : Normal Normal Normal Enabled Enabled Enabled Enabled Enabled Enabled Enabled Enabled Enabled Enabled Enabled Enabled | AGP Master 1 WS Read : Disabled ***** System Health Monitor ***** Current CPU Temperature : 27.CR0F Current GP Fan Speed : 425 RPM CPUT Temperature : 27.CR0F CPU Tam Speed : 4137 RPM CPU Temperature : 17.000 AGP Fan Speed : 180000 CPU Tam Speed Limit : Ignore +3.3V Voltage : Ignore +12V Voltage : Ignore +5V Voltage : Ignore ESC : Quit ↑↓ → ← : Select Item |
|---|--|---|
| PCI Master Read Prefetch PCI#2 Access #1 Retry AGP Master 1 WS Write | : Enabled : Disabled : Disabled | F1 : Help PU/PD/+/- : Modify F5 : Old Values (Shift) F2 : Color F6 : Load Fail-Safe Settings F7 : Load Optimal Settings |

ROM PCI/ISA BIOS CHIPSET FEATURES SETUP AWARD SOFTWARE, INC.

CPU Temperature Limit

If the temperature of the processor is over the temperature limit set in this field (70°C/158°F recommended), an alarm will sound warning you of system overheat. The sound of the alarm is continuous low to high beeps.

Si la température du processeur est supérieure à la température limite spécifiée dans ce champs (70°C/158°F recommandés), une alarme retentira pour vous avertir de la surchauffe de votre système. Le son émis par d'alarme sont des bips continus faibles ou forts.

Übersteigt die Temperatur des Prozessors die in diesen Feldem eingestellte Temperatur (70°C/158°F empfohlen), ertönt ein akustisches Signal, das eine Überhitzung des Systems anzeigt. Dieses akustische Signal ertönt in einem kontinuierlichen tiefen Ton bis zu hohen Tönen.

CPU Fan Speed Limit and AGP Fan Speed Limit

If the CPU/AGP fan speed is under the speed limit set in these fields, an alarm will sound informing you to attend to any issue that may damage your system. The sound of the alarm resembles that of the siren of an ambulance.

Si la vitesse du ventilateur de CPU/AGP est inférieure aux vitesses limite spécifiées dans ces champs, une alarme retentira pour vous avertir de faire attention à toute éventualité qui pourrait endommager votre système. Le son de l'alarme ressemble à celui de la sirène d'une ambulance.

Ist die Geschwindigkeit des CPU-/AGP-Lüfters geringer als die in diesen Feldern eingestellte Geschwindigkeit, ertönt ein akustisches Signal, das einen Umstand anzeigt, durch welchen das System beschädigt werden kann. Das akustische Signal tönt ähnlich wie die Sirene eines Krankenwagens.

+3.3V, +5V and +12V Voltages

Set these fields to "Monitor" if you want the system board to detect the output voltage of the power supply. If the output voltage is over or under +3.3V/+5V/+12V ($\pm10\%$), an alarm will sound warning you of voltage issue. The sound of the alarm is continuous low to high beeps but shorter than the temperature alarm.

Positionnez ces champs sur "Monitor" si vous voulez que la carte système détecte le voltage de sortie de l'alimentation. Si le voltage de sortie est supérieur ou inférieur à +3.3V/+5V/+12V ($\pm10\%$), une alarme retentira vous avertissant du problème de voltage. Le son de

l'alarme est continu allant de bips faible vers des bips plus forts mais plus courts que ceux de l'alarme de température.

Falls die Ausgangsspannung des Netzteils durch die System-Platine erkannt werden soll, müssen diese Felder auf "Monitor" eingestellt werden. Befindet sich die Ausgangsspannung oberhalb oder unterhalb +3.3V/+5V/+12V (±10%), ertönt ein akustisches Signal, das Sie auf eine unangemessene Spannung aufmerksam macht. Dieses akustische Signal ertönt in einem kontinuierlichen tiefen Ton bis zu hohen Tönen, ist jedoch kürzer als das akustische Temperatur-Warnsignal.

System Health Monitor Utility

The system board package comes with a System Health Monitor utility.

La carte système est fournie avec une utilitaire de System Health Monitor:

Die System-Platine wird mit einem System Health Monitor geliefert.

| | Genesys Logic System Health Monitor Rev.A (for VIA) | | |
|---|---|---|---|
| The time interval for monitoring the system | Polling Interval: 4 Seconds | Update w/o Save Update and Save | |
| CPU temperature limit Current temperature | CPU Over-Heat Temperature: 80 CPU Sterisis Temperature: 75 CPU Hysterisis Temperature: 75 CPU Temperature: 79 | User Setting Default Setting | |
| Output voltage – limit | Voltage (V) Lo High Limit: Current Voltage: Low Limit: 3.3V Values 3.60 3.35 3.00 12V Values 13.20 12.91 10.80 5V Values 5.50 5.08 4.50 | Quit Quit Alarm when CPU Over Heat 3.3V Abnormal D 12V Abnormal | When enabled, this screen will minimize and display a histogram icon after boot-up |
| CPU/AGP fan speed limit | Fan (RPM) Low Limit: Current Speed: CPU Fan 2000 5454 AGP Fan 2000 3287 | 12 V Abhormal 5V Abhormal CPU Fan Abhormal AGP Fan Abhormal | items when enabled will alert you in case of detected failure |

Once this utility is installed, the system will ignore the settings in the "System Health Monitor" field of the Chipset Features Setup. If you are using Windows[®] 95/98 or Windows NT[®] 4.0, you may select between using the utility and the Chipset Features Setup. For other operating systems, you may only use the Chipset Features Setup.

Dès que cette utilitaire est installé, le système ignora les configurations dans le champs "System Health Monitor" du Chipset Features Setup. Si vous utilisez Windows[®] 95/98 ou Windows NT[®]

4.0, vous pourriez sélectionner entre cette utilitaire ou bien Chipset Features Setup. Pour d'autres systèmes d'opération, vous n'utilisez que Chipset Features Setup.

Nach dem Installieren dieses Hilfsprogramms werden die Einstellungen im "System Health Monitor"-Feld der Chipset Features Setup ignoriert. Falls Sie mit Windows® 95/98 oder Windows NT® 4.0 arbeiten, können Sie auswählen, ob Sie das Hilfsprogramm oder die Chipset Features Setup anwenden wollen. Bei anderen Betriebssystemen kann nur die Chipset Features Setup angewendet werden.

3.7 Loading Fail-Safe Settings/Optimal Settings

Charger les Paramètres à Sécurité Relative Optimaux Laden der Fail - Safe Einstellungen / Optimierte Einstellungen

The "Load Fail-Safe Settings" option loads the troubleshooting default values permanently stored in the ROM chips. These settings are not optimal and turn off all high performance features. You should use these values only if you have hardware problems. The "Load Optimal Settings" option loads optimized settings from the BIOS ROM. Use the Setup default values as standard values for your system.

L'option "Charger les Paramètres à Sécurité Relative" charge les valeurs de recherche de pannes par défaut stockées de manière permanente dans les puces ROM. Ces paramètres ne sont pas optimum et désactives toutes les fonctionnalités à haute performance. Vous pouvez utiliser ces valeurs seulement si vous rencontrez des problèmes de matériel.

Mit dieser Funktionen lassen sich Standardeinstellungen in dem permanenten ROM Speicher ablegen, die in Problemfällen geladen werden. Mit dieser Einstellung läßt sich der Computer im Standardmodus starten. Sie sollten diese Werte nur dann benutzen, wenn Hardwareprobleme etc. eine Starten des Computers nicht zulassen. Mit der Auswahl "Load Optimal Settings" lassen sich die optimierten Einstellungen von dem BIOS ROM abrufen. Die optimierten Einstellungen sind der Standardwert.

3.8 Setting the Supervisor/User Password

If you want to protect your system and the setup utility from unauthorized entry, set a password in the "Supervisor Password" field. If you want a user to have access only to your system but not to setup, set a password in the "User Password" field. Use the

3

Award BIOS Setup Utility

arrow keys to highlight the "Supervisor Password" or "User Password" field and press <Enter>. The message below will appear.

Enter Password:

Type in the password. You can enter up to eight characters only. You will then be prompted to confirm the password. Type in exactly the same password.

Make sure to set the "Security Option" field in the BIOS Features Setup to "System" or "Setup". This will depend on when you would like the system to be prompted with a password.

Définir le Mot de Passe Superviseur/Utilisateur

Si vous désirez protéger votre système et Install contre toute entrée non autorisée, paramétrez un mot de passe dans le champ "Supervisor Password". Si vous désirez protéger l'accès à Install seulement, mais pas votre système, paramétrez un mot de passe dans le champ "User Password". Utilisez les touches fléchées pour sélectionner le champ "Supervisor Password" ou "User Password" et appuyez sur <Entrée>. Le message ci-dessous apparaîtra.

Enter Password:

Entrez le mot de passe. Vous êtes limité à huit caractères. Une fois que c'est fait, vous serez invité à confirmer le mot de passe, entrez exactement le même mot de passe.

Assurez vous de positionner le champs "Security Option" dans les BIOS Features Setup sur "System" ou "Setup". Cela dépend du moment où vous désirez que le système vous demande le mot de passe.

Aktivieren eines Supervisor / Benutzer Paßwortes

Wenn Sie das "Supervisor Password" aktivieren, müssen Sie vor dem Einstieg in das Konfigurationsprogramm ein Kennwort eingeben., während das "User Password" den Zugang zu dem Computer ermöglicht. Wählen Sie den Eintrag "Supervisor Password" bzw. "Supervisor Password" und betätigen Sie die Eingabetaste (Enter). Im erscheinenden Dialogfeld.

Enter Password:

Geben Sie Ihr Kennwort mit bis zu 8 Stellen ein. Betätigen Sie die Eingabetaste und geben Sie das Kennwort als Bestätigung erneut ein.

Es ist darauf zu achten, daß das Feld "Security Option" in dem BIOS Features Setup auf "System" oder "Setup" gesetzt ist.

Chapter 4 - Supported Softwares Logiciels Supportés Unterstützte Software

4.1 Drivers and Utility Pilotes et Utilitaires Treiber und Hilfsprogramme

The system board package comes with drivers and utilities contained in the provided CD. For installation instructions or information about their corresponding "readme", click the "Read Me" button in the autorun screen. The autorun screen normally appears after the CD is inserted into a CD-ROM drive. All steps or procedures to install software drivers are subject to change without notice as the softwares are occassionally updated. Please refer to the readme file for the detailed information.

Installing Windows® 98 on a VIA Chipset-Based System

- 1. Before installing Windows[®] 98, make sure your system is installed with a graphics card only. Take note - DO NOT install any addin cards other than the graphics card into any of the expansion slots yet.
- 2. Boot your system and install the Windows[®] 98 operating system.
- 3. Now install the VIA IrQ routing miniport driver.
- 4. Install your AGP card driver and VIA AGP VxD driver.



Important:

When having installed the AGP card driver, "DO NOT" restart the system; sucessively, install the VIA AGP VxD driver.

5. After installing these drivers, turn off your system. You may now install other add-in cards and their corresponding drivers.



Note:

- 1. It is not suggested that you install the IRQ routing miniport dirver in the Windows[®] 95 operating system.
- 2. The VIA IrQ routing miniport driver and VIA AGP VxD driver are included in the CD that comes with the system board package.

Appendix A - System Error Message Messages d'Erreur du Système Fehlernachricht des Systems

When the BIOS encounters an error that requires the user to correct something, either a beep code will sound or a message will be displayed in a box in the middle of the screen and the message, PRESS FI TO CONTINUE, CTRL-ALT-ESC or DEL TO ENTER SETUP, will be shown in the information box at the bottom. Enter Setup to correct the error.

A.1 POST Beep / Pip de POST / Akustisches POST-Signal

There are two kinds of beep codes in the BIOS. One code indicates that a video error has occured and the BIOS cannot initialize the video screen to display any additional information. This beep code consists of a single long beep followed by three short beeps. The other code indicates that a DRAM error has occured. This beep code consists of a single long beep.

A.2 Error Messages / Messages d'Erreur / Fehlernachrichten

One or more of the following messages may be displayed if the BIOS detects an error during the POST. This list indicates the error messages for all Awards BIOSes:

CMOS BATTERY HAS FAILED

The CMOS battery is no longer functional. It should be replaced.

Caution:

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

CMOS CHECKSUM ERROR

Checksum of CMOS is incorrect. This can indicate that CMOS has become corrupt. This error may have been caused by a weak battery. Check the battery and replace if necessary.

DISPLAY SWITCH IS SET INCORRECTLY

The display switch on the motherboard can be set to either monochrome or color. This indicates the switch is set to a different

setting than indicated in Setup. Determine which setting is correct, either turn off the system and change the jumper or enter Setup and change the VIDEO selection.

FLOPPY DISK(S) fail (80)

Unable to reset floppy subsystem.

FLOPPY DISK(S) fail (40)

Floppy type mismatch.

Hard Disk(s) fail (80)

HDD reset failed.

Hard Disk(s) fail (40)

HDD controller diagnostics failed.

Hard Disk(s) fail (20)

HDD initialization error.

Hard Disk(s) fail (10)

Unable to recalibrate fixed disk.

Hard Disk(s) fail (08)

Sector Verify failed.

Keyboard is locked out - Unlock the key

The BIOS detects that the keyboard is locked. Keyboard controller is pulled low.

Keyboard error or no keyboard present

Cannot initialize the keyboard. Make sure the keyboard is attached correctly and no keys are being pressed during the boot.

Manufacturing POST loop

System will repeat POST procedure infinitely while the keyboard controller is pull low. This is also used for the M/B burn in test at the factory.

BIOS ROM checksum error - System halted

The checksum of ROM address F0000H-FFFFFH is bad.

Memory test fail

The BIOS reports memory test fail if the memory has error(s).