

## ***M7VIT Grand***

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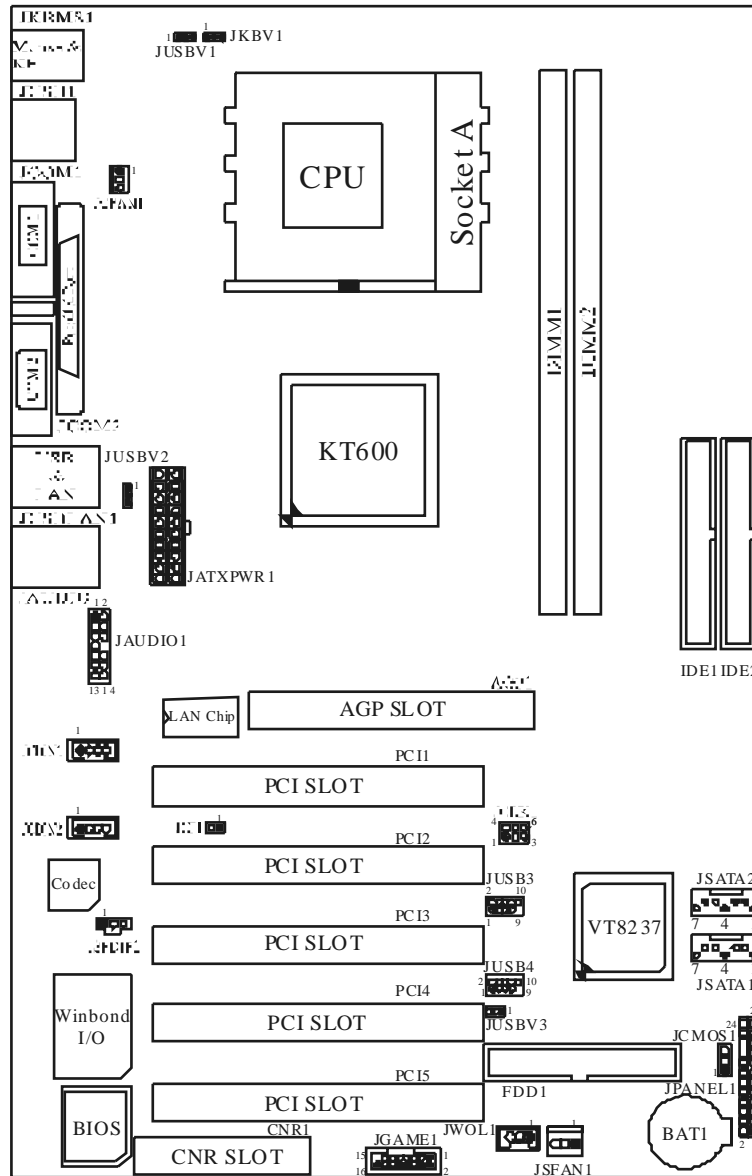
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## Layout of M7VIT Grand

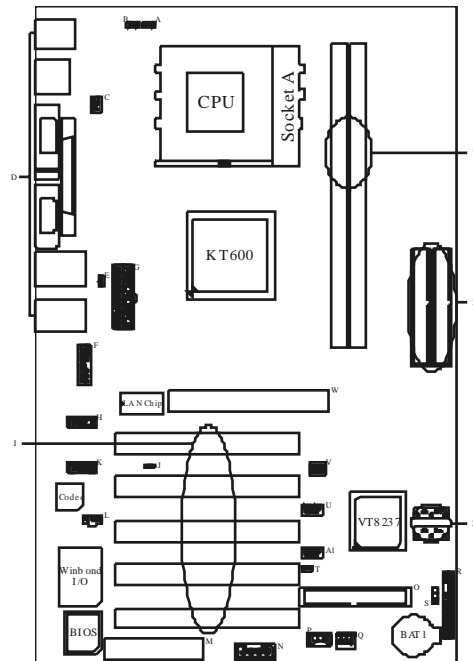


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## Component Index



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## English

### M7VIT Grand Features

#### A. Hardware

##### CPU

- Provides Socket A.
- Supports Single Socket A for an AMD Athlon/ Duron Family processor
- Front Side Bus at 200/266/333/400 MHz.

##### Chipset

- North Bridge: VIA KT600.
- South Bridge: VIA VT8237.

##### Main Memory

- Supports up to 2 DDR devices.
- Supports 200/266/333/400 MHz high-speed DDR memory.
- Maximum memory size of 2GB.

##### Super I/O

- Chip: Winbond W83697HF.

##### Slots

- Five 32-bit PCI bus master slots.
- One AGP 8X slot.
- One CNR slot. (only Type B)

##### On Board IDE

- Supports four IDE disk drives.
- Supports PIO Mode 4, Bridge Mode and Ultra DMA 33/66/100/133 Bus Master Mode.

##### LAN

- Chip: VIA VT6103
- Dual Speed- 100/ 10Mbps.
- Half / Full Duplex.
- Auto Negotiation: 10/ 100.

##### On Board AC'97 Sound Codec

- Chip: CMI9739A.
- Compliant with AC'97 specification.
- Supports 6 channels.

##### On Board Peripherals

###### *a. Rearside*

- 2 serial ports.

- 
- 
- 1 parallel port. (SPP/EPP/ECP mode)
  - Audio ports in vertical position.
  - 1 LAN jack
  - PS/2 mouse and PS/2 keyboard.
  - 4 USB2.0 ports.

***b. Front Side***

- 1 floppy port supports 2 FDDs with 360K, 720K, 1.2M, 1.44M and 2.88Mbytes.
- 4 USB2.0 ports.
- 1 front audio header.

**Dimensions**

- ATX Form Factor: 24.5cm X 30.5cm (W X L)

## **B. BIOS & Software**

**BIOS**

- Award legal Bios.
- APM1.2.
- ACPI.
- USB Function.

**Software**

- Supports Warpspeeder™, 9th Touch™, FLASHER™, CPU Savior and StudioFun!™ (optional).
- Offers the highest performance for Windows 98 SE, Windows 2000, Windows Me, Windows XP, SCO UNIX etc.

## **Package contents**

- HDD Cable X1
- FDD Cable X1
- User's Manual X1
- USB Cable X1 (optional)
- Rear I/O Panel for ATX Case X 1
- Fully Setup Driver CD X 1
- StudioFun! Application CD X 1 (optional)
- S/PDIF Cable X 1 (optional)

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## How to setup Jumper

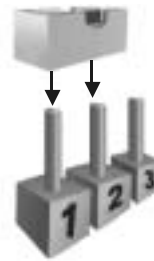
The illustration shows how jumpers are setup. When the Jumper cap is placed on pins, the jumper is "**close**". If no jumper cap is placed on the pins, the jumper is "**open**". The illustration shows a 3-pin jumper whose pin 1 and 2 are "**close**" when jumper cap is placed on these 2 pins.



Jumper close



Jumper open



Pin1-2 close

## CPU Installation

**Step1:** Pull the lever sideways away from the socket and then raise the lever up to a 90-degree angle.

**Step2:** Look for the white dot/cut edge. The white dot/cut edge should point towards the lever pivot. The CPU will fit only in the correct orientation.

**Step3:** Hold the CPU down firmly, and then close the lever.

**Step4:** Put the CPU fan on the CPU and buckle it. Connect the CPU fan power cable to the JCFAN1. This completes the installation.



Step1



Step2




Step3




Step4



### CPU Fan Header: JCFAN1

	1	<b>Pin No.</b>	<b>Assignment</b>
		1	Ground
		2	+12V
		3	FAN RPM rate Sense

### System Fan Header: JSFAN1

	1	<b>Pin No.</b>	<b>Assignment</b>
		1	Ground
		2	+12V
		3	FAN RPM rate Sense

### DIMM Modules: DIMM1, DIMM2

DRAM Access Time: 25V Unbuffered/ Registered DDR PC1600/ 2100/ 2700/ 3200 Type required.

DRAM Type: 64MB/ 128MB/ 256MB/ 512MB/ 1GB DIMM Module (184 pin)

#### ※ CPU FSB/ Memory Speed Support Matrix

CPU FSB/ Memory Speed	DDR 266	DDR 333	DDR 400
200 MHz	YES	NO	NO
266 MHz	YES	YES	YES
333 MHz	YES	YES	YES
400 MHz	YES	YES	YES

#### Total Memory Size with Unbuffered DIMMs

DIMM Socket Location	DIMM Module	Total Memory Size (MB)
DIMM1	64MB/128MB/256MB/512MB/1GB *1	Max is 2GB
DIMM2	64MB/128MB/256MB/512MB/1GB *1	

\*\*\*Only for reference\*\*\*

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## Installing DIMM Module

1. Unlock a DIMM slot by pressing the retaining clips outward. Align a DIMM on the slot such that the notch on the DIMM matches the break on the slot.
2. Insert the DIMM firmly and vertically into the slot until the retaining chip snap back in place and the DIMM is properly seated.



## Jumpers, Headers, Connectors & Slots

### Floppy Disk Connector: FDD1

The motherboard provides a standard floppy disk connector that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types. This connector supports the provided floppy drive ribbon cables.

### Hard Disk Connectors: IDE1/ IDE2

The motherboard has a 32-bit Enhanced PCI IDE Controller that provides PIO Mode 0-4, Bus Master, and Ultra DMA 33/ 66/ 100/ 133 functionality. It has two HDD connectors IDE1 (primary) and IDE2 (secondary).

The IDE connectors can connect a master and a slave drive, so you can connect up to four hard disk drives. The first hard drive should always be connected to IDE1.

### Peripheral Component Interconnect Slots: PCI 1-5

This motherboard is equipped with 5 standard PCI slots. PCI stands for Peripheral Component Interconnect, and it is a bus standard for expansion cards. This PCI slot is designated as 32 bits.

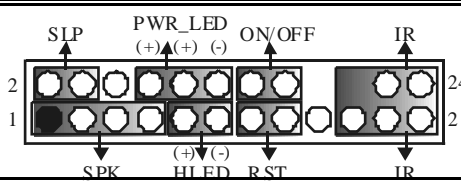
### Accelerated Graphics Port Slot: AGP1

Your monitor will attach directly to that video card. This motherboard supports video cards for PCI slots, but it is also equipped with an Accelerated Graphics Port (AGP). An AGP card will take advantage of AGP technology for improved video efficiency and performance, especially with 3D graphics.

### Communication Network Riser Slot: CNR1

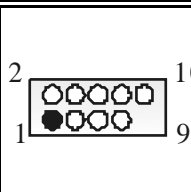
The CNR specification is an open Industry Standard Architecture, and it defines a hardware scalable riser card interface, which supports audio, network and modem only.

### Front Panel Connector: JPANEL1



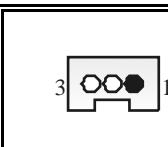
Pin	Assignment	Function	Pin	Assignment	Function
1	+5V	Speaker Connector	2	Sleep Control	Sleep Button
3	NA		4	Ground	
5	NA		6	NA	NA
7	Speaker		8	Power LED (+)	POWER LED
9	HDD LED (+)	10	Power LED (+)		
11	HDD LED (-)	12	Power LED (-)		
13	Ground	Reset Button	14	Power Button	Power-on Button
15	Reset Control		16	Ground	
17	NA		18	KEY	IrDA Connector
19	NA	20	KEY		
21	+5V	22	Ground		
23	IRTX	24	IRRX		

### Front USB Header: JUSB3, JUSB4



Pin	Assignment	Pin	Assignment
1	+5V	2	+5V
3	USBP6-	4	USBP7-
5	USBP6+	6	USBP7+
7	Ground	8	Ground
9	KEY	10	NA

### Wake On LAN Header: JWOL1



Pin	Assignment
1	+5V_SB
2	Ground
3	Wake up

**Power Connectors: JATXPWR1**



	PIN	Assignment	PIN	Assignment
	1	+3.3V	11	+3.3V
	2	+3.3V	12	-12V
	3	Ground	13	Ground
	4	+5V	14	PS_ON
	5	Ground	15	Ground
	6	+5V	16	Ground
	7	Ground	17	Ground
	8	PW_OK	18	-5V
	9	Standby Voltage +5V	19	+5V
10	+12V	20	+5V	

**Power Source Selection for Keyboard/ Mouse: JKBV1**

JKBV1	Assignment	Description
 Pin 1-2 close	+5V	+5V for key board and mouse
 Pin 2-3 close	+5V Standby Voltage	PS/2 Mouse and PS/2 Keyboard are powered with +5V standby voltage



*Note: In order to support this function "Power-on the system via keyboard and mouse, "JKBV1" jumper cap should be placed on pin 2-3.*

**Power Source Selection for USB: JUSBV1/ JUSBV2/ JUSBV3**

JUSBV1/JUSBV2/ JUSBV3	Assignment	Description
 Pin 1-2 close	+5V	JUSBV1: 5V for USB at the JUSB1 connector port JUSBV2: 5V for JUSBLAN1 port JUSBV3: 5V for JUSB3/4 ports
 Pin 2-3 close	+5V Standby Voltage	JUSBV1: JUSB1 port powered with standby voltage of 5V JUSBV2: JUSBLAN1 port powered with standby voltage of 5V JUSBV3: JUSB3/4 ports powered with standby voltage of 5V

*Note: In order to support this function "Power-on the system via USB device", "JUSBV1/JUSBV2/JUSBV3" jumper cap should be placed on pin 2-3 respectively.*

**Clear CMOS Jumper: JCMOS1**

JCMOS1	Assignment
 Pin 1-2 Close	Normal Operation (default)
 Pin 2-3 Close	Clear CMOS Data

**CAUTION**  
WATCH YOURSELF


The following procedures are for resetting the BIOS password. It is important to follow these instructions closely.

※ **Clear CMOS Procedures:**


1. Remove AC power line.

2. Set the jumper to "Pin2-3 Close."
3. Wait for five seconds.
4. Set the jumper to "Pin 1-2 Close."
5. Power on the AC.
6. Reset your desired password or clear the CMOS data.

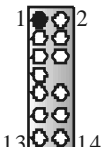
### Case Open Connector: JCI1

	Pin	Assignment
	1	Case Open Signal
	2	Ground


### CD-ROM Audio-In Header: JCDIN1/JCDIN2

	Pin	Assignment
	1	Left Channel Input
	2	Ground
	3	Ground
	4	Right Channel Input

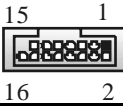
### Front Panel Audio Header: JAUDIO1

			
Pin	Assignment	Pin	Assignment
1	Mic In/Center	2	Ground
3	Mic Power/ Bass	4	Audio Power
5	Right Line Out/ Right Speaker Out	6	Right Line Out/ Right Speaker Out
7	Reserved	8	Key
9	Left Line Out/ Left Speaker Out	10	Left Line Out/ Left Speaker Out
11	Right Line In/ Right Rear Speaker	12	Right Line In/ Right Rear Speaker
13	Left Line In/ Left Rear Speaker	14	Left Line In/ Left Rear Speaker


### Digital Audio Connector: JS PDIF1

	Pin	Assignment
	1	+5V
	2	SPDIF_OUT
	3	Ground


### Game Header: JGAME1

			
Pin	Assignment	Pin	Assignment
1	+5V	2	+5V
3	Joy stick B Button 1	4	Joy stick A Button 1
5	Joy stick B Coordinate X	6	Joy stick A Coordinate X
7	MDI Output	8	Ground
9	Joy stick B Coordinate Y	10	Ground
11	Joy stick B Button 2	12	Joy stick A Coordinate Y
13	MDI Input	14	Joy stick A Button 2
15	NA	16	+5V

### Frequency Selection: JCLK1

	Pin	Assignment
	1-2, 5-6	100 MHz
	2-3, 5-6	133 MHz (default)
	2-3, 4-5	166 MHz
	1-2, 4-5	200 MHz

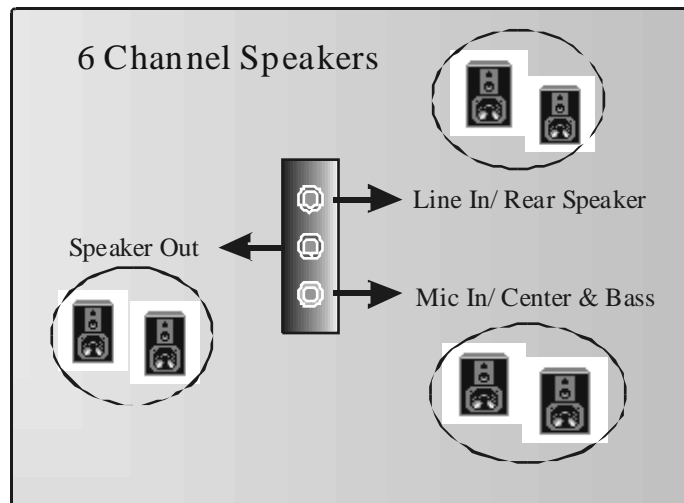
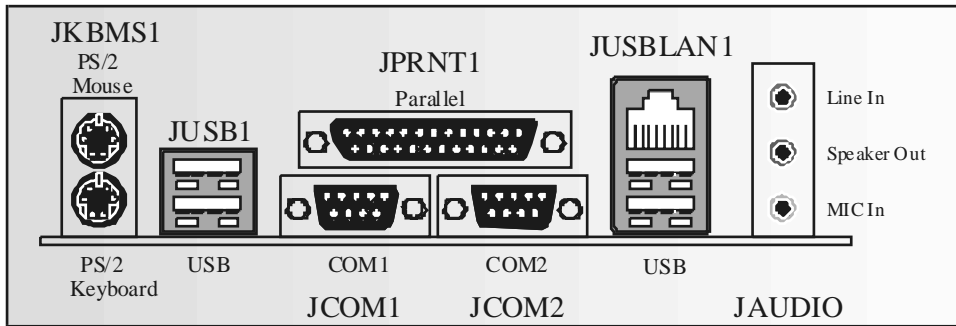
### Serial ATA Connector: JS ATA1/ JS ATA2

 JS ATA1/ JSATA2	Pin	Assignment	Pin	Assignment
	1	Ground	2	TX+
	3	TX-	4	Ground
	5	RX-	6	RX+
	7	Ground		

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## Back Panel Connectors





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## Deutsch

### Spezifikationen von M7VIT Grand

#### A. Hardware

##### CPU

- Unterstützung für Sockel A.
- Unterstützung für die AMD® Athlon/ Duron-Familie Prozessoren.
- FSB mit 200/266/333/400 MHz.

##### Chipsatz

- Northbridge: VIA KT600.
- Southbridge: VIA VT8237.

##### Hauptspeicher

- Unterstützung für 2 DDR Geräte.
- Unterstützung für 200/266/333/400 MHz Hochgeschwindigkeit DDR Speicher.
- Die maximale Speichergröße ist 2GB.

##### Super I/O

- Chip: Winbond W83697HF.

##### Steckplätze

- Fünf 32-bit PCI-Bus-Slots.
- Ein 8X AGP-Slot.
- Ein CNR-Slot. (nur Typ B)

##### Onboard-IDE

- Unterstützung für vier IDE Diskettenlaufwerke.
- Unterstützung für PIO Modus 4, Bridge Modus und Ultra DMA 33/66/100/133 Bus Master Modus.

##### LAN

- Chip: VIA VT6103
- Unterstützung für 10Mb/s und 100 Mb/s Auto-Negotiation.
- Halb/Voll-Duplex.

##### Onboard AC'97 Sound Codec

- Chip: CMI9739A.
- Entspricht die Spezifikation von AC'97.
- Unterstützung für 6-Kanal.

##### Onboard-Peripheriegeräte

###### a. Für Rückwand

- 2 serielle Schnittstellen.
- 1 parallele Schnittstelle. (SPP/EPP/ECP-Modus)

- 
- 
- Audio Schnittstellen in vertikale Stellung. (Lin-In/Speaker-Out/Mic-In)
  - 1 LAN-Buchse.
  - Unterstützung für PS/2-Maus und PS/2-Tastatur.
  - 4 USB 2.0-Ports.

**b. Für Vorderseite**

- 1 Floppy-Port mit Unterstützung für 2 Diskettenlaufwerke. (360KB, 720KB, 1.2MB, 1.44MB und 2.88MB)
- 4 USB2.0 ports
- 1 Front-Audio-Header.

**Abmessungen**

- ATX Form-Factor: 24.5cm X 30.5cm (W X L)

## **B. BIOS & Software**

**BIOS**

- Award legal Bios.
- Unterstützung für APM1.2.
- Unterstützung für ACPI.
- Unterstützung für USB Funktion

**Software**

- Unterstützung für Warpspeeder™, 9th Touch™, FLASHER™, CPU Savior und StudioFun!™ (optional).
- Unterstützung für die am meisten verbreiteten Betriebssysteme wie Windows 98SE, Windows 2000, Windows ME, Windows XP, SCO UNIX usw.

## **Verpackungsinhalt**

- HDD Kabel X1
- FDD Kabel X1
- Benutzer Handbuch X1
- USB Kabel X1 (optional)
- I/O-Rückwand für ATX Gehäuse
- Treiber CD für Installation X 1
- StudioFun! Anwendung CD X 1 (optional)
- S/PDIF (Sony/Philips Digital Interface) Kable X1 (optional)

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## Einstellung der Jumper

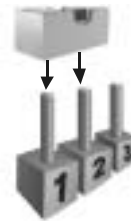
Die Abbildung verdeutlicht, wie Jumper eingestellt werden. Pins werden durch die Jumper-Kappe verdeckt, ist der Jumper "**geschlossen**". Keine Pins werden durch die Jumper-Kappe verdeckt, ist der Jumper "**geöffnet**". Die Abbildung zeigt einen 3-Pin Jumper dessen Pin1 und Pin2 "**geschlossen**" sind, bzw. es befindet sich eine Jumper-Kappe auf diesen beiden Pins.



Jumper geöffnet



Jumper geschlossen



Pin1-2 geschlossen

## Installation der CPU

- Schritt 1:** Ziehen Sie den Hebel seitlich vom Sockel weg. Heben Sie den Hebel dann in 90-Grad-Winkel nach oben.
- Schritt 2:** Suchen Sie nach der scharfen Kante, die auf Drehpunkt des Hebels weisen muss. Die CPU passt nur, wenn sie richtig ausgerichtet ist.
- Schritt 3:** Drücken Sie die CPU fest in den Sockel und schließen Sie den Hebel.
- Schritt 4:** Stecken Sie Ihren CPU-Lüfter auf die CPU. Schließen Sie die Stromversorgungsstecker für CPU-Lüfter an JCFAN1 an. Dann beenden Sie die Installation.



Schritt 1



Schritt 2

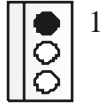


Schritt 3




Schritt 4

### CPU-Lüfter Headers: JCFAN1

	Pin	Belegung
	1	Masse
	2	+12V
	3	FAN RPM Sensor

RPM: "Rounds per Minute", deutsch: Umdrehungen pro Minute.

### System -Lüfter Headers: JSFAN1

	Pin	Belegung
	1	Masse
	2	+12V
	3	FAN RPM Sensor

### DIMM-Modulen: DIMM1, DIMM2

DRAM-Zugriffszeit: 2.5V unbuffered / registered DDR PC1600/ 2100/ 2700/ 3200 Typ erforderlich.

DRAM-Typ: 64MB/ 128MB/ 256MB/ 512MB/ 1GB DIMM-Module (184-Pin)

#### ※ CPU-FSB/Speichertakt Unterstützungsmatrix

CPU FSB\ Speichertakt	DDR 266	DDR 333	DDR 400
200 MHz	JA	Nein	Nein
266 MHz	JA	JA	JA
333 MHz	JA	JA	JA
400 MHz	JA	JA	JA

#### Gesamte Speichergöße von unbuffered DIMMs

DIMM-Sockel Standort	DIMM-Modulen	Speichergöße (MB)
DIMM1	64MB/128MB/256MB/512MB/1GB *1	Maximal ist 2 GB
DIMM2	64MB/128MB/256MB/512MB/1GB *1	

\*\*\*Nur als Referenz\*\*\*

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## Installation von DDR-Module

1. Öffnen Sie einen DIMM-Slots, indem Sie die seitlich Chips nach außen drücken. Richten Sie das DIMM-Modul so über dem Slot aus, dass das Modul mit der Kerbe in den Slot passt.
2. Drücken Sie das DIMM-Modul in den Slot, bis die seitlichen Clips zuschnappen und das Modul fest sitzt



## Jumpers, Headers, Anschlüsse & Steckplätze

### Diskettenanschluss: FDD1

Das Motherboard enthält einen standardmäßigen Diskettenanschluss, der 360K-, 720K-, 1.2M-, 1.44M- und 2.88M-Disketten unterstützt. Dieser Anschluss unterstützt die mitgelieferte Bandkabel des Diskettenlaufwerks.

### Festplattenanschlüsse: IDE1 und IDE2

Das Mainboard hat einen 32-bit Enhanced PCI IDE-Controller, der die Modi PIO0~4, Bus Master sowie die Ultra DMA/33/66/100/133- Funktion zur Verfügung stellt. Dieser ist mit zwei HDD-Anschlüssen versehen IDE1 (primär) und IDE2 (sekundär).

Die IDE-Anschlüsse können eine Master- und eine Slave-Festplatte verbinden, so dass bis zu 4 Festplatten angeschlossen werden können. Die erste Festplatte sollte immer an IDE1 angeschlossen werden.

### Peripheral Component Interconnect Slots: PCI 1-5

Dieses Motherboard ist mit 5 standardmäßigen PCI-Slots ausgestattet. PCI steht für Peripheral Component Interconnect und bezieht sich auf einem Busstandard für Erweiterungskarten, der den älteren ISA-Busstandard in den meisten Schnittstellen ersetzt hat. Dieser PCI-Slot ist für 32 bits vorgesehen.

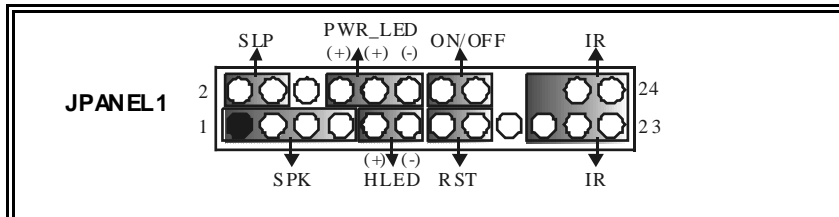
### Accelerated Graphics Port Slot: AGP1

Ihr Monitor wird direkt an die Grafikkarte angeschlossen. Dieses Motherboard unterstützt Grafikkarten für PCI-Slots, aber es ist auch mit einem Accelerated Graphics Port ausgestattet. AGP-Karten verwenden die AGP-Technologie, um die Wirksamkeit und Leistung von Videosignalen zu verbessern, besonders wenn es sich um 3D-Grafiken handelt.

### Communication Network Riser Slot: CNR1

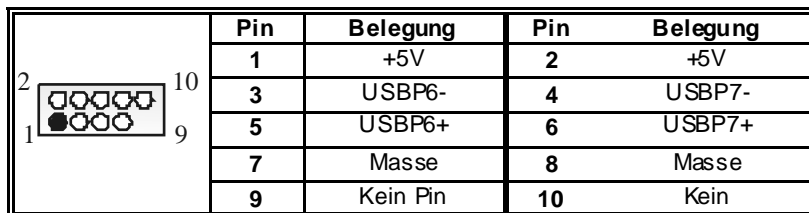
Die CNR-Angaben entsprechen einer offenen Industry Standard Architecture, und sie definieren eine Hardware-skalierbare Riser-Card-Schnittstelle, welche nur Audio, Netzwerk und Modem unterstützt.

### Anschlüsse für die Vorderseite: JPANEL1



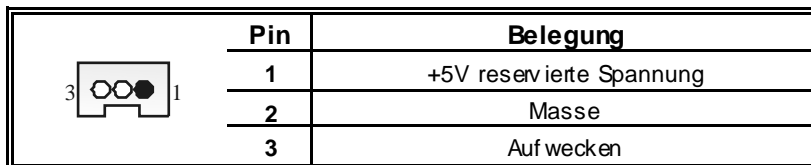
Pin	Belegung	Funktion	Pin	Belegung	Funktion
1	+5V	Lautsprecher-Anschluss	2	Schlaf - Kontroll	Schlaf-knopf
3	Kein		4	Masse	
5	Kein		6	Kein	POWER LED
7	Lautsprecher		8	Power LED (+)	
9	HDD LED (+)	10	Power LED (+)		
11	HDD LED (-)	Festplatte LED	12	Power LED (-)	Power-On Knopf
13	Masse		14	Power-Knopf	
15	Reset-Kontroll	Rückstell-knopf	16	Masse	IrDA Anschluss
17	Kein	IrDA-Anschluss	18	Schlüsse	
19	Kein		20	Schlüsse	
21	+5V		22	Masse	
23	IRTX	IrDA Anschluss	24	IRRX	

### Front USB Header: JUSB3/ JUSB4



Pin	Belegung	Pin	Belegung
1	+5V	2	+5V
3	USBP6-	4	USBP7-
5	USBP6+	6	USBP7+
7	Masse	8	Masse
9	Kein Pin	10	Kein

### Wake On LAN Header: JWOL1



Pin	Belegung
1	+5V reservierte Spannung
2	Masse
3	Auf wecken

### Stromversorgungsanschluss: JATXPWR1

	PIN	Belegung	PIN	Assignment
	1	+3.3V	11	+3.3V
	2	+3.3V	12	-12V
	3	Masse	13	Masse
	4	+5V	14	PS_ON
	5	Masse	15	Masse
	6	+5V	16	Masse
	7	Masse	17	Masse
	8	PW_OK	18	-5V
	9	+5V_SB	19	+5V
10	+12V	20	+5V	


### Auswahl von Stromsmodi für Tastatur/ Maus: JKBV1

JKBV1	Belegung	Beschreibung
 Pin 1-2 geschlossen	+5V	+5V für Tastatur und Maus
 Pin 2-3 geschlossen	+5V reservierte Spannung	Durch +5V reservierte Spannung für PS/2-Tastatur und PS/2-Maus zum Erwecken von dem System

**Anmerkung:** Um die Funktion — Erwecken durch Tastatur/Maus — zu aktivieren, müssen Pins 2-3 von JKBV1 durch die Jumperkappe verdeckt werden.



### Auswahl von Stromsmodi für USB: JUSBV1/ JUSBV2/ JUSBV3


JUSBV1/JUSBV2/ JUSBV3	Belegung	Beschreibung
 Pin 1-2 geschlossen	+5V	JUSBV1: +5V für den USB-Port von JUSB1 JUSBV2: +5V für den USB-Port von JUSBLAN1 JUSBV3: +5V für den USB-Port von JUSB3/4 ports

 <p>Pin 2-3 geschlossen</p>	<p>+5V reservierte Spannung</p>	<p>JUSBV1: +5V reservierte Spannung für den USB-Port von JUSB1 zum Erwecken</p> <p>JUSBV2: +5V reservierte Spannung für den USB-Port von JUSBLAN1 zum Erwecken</p> <p>JUSBV3: +5V reservierte Spannung für den USB-Port von JUSB3/4 zum Erwecken</p>
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**Anmerkung:** Um die Funktion — Erwecken durch USB — zu aktivieren, müssen Pins 2-3 von JUSBV1/JUSBV2/JUSBV3 durch die Jumperkappe verdeckt werden.

### Jumper zum Löschen des CMOS: JCMOS1

JCMOS1	Beschreibung
 <p>Pin 1-2 geschlossen</p>	<p>Normale Operation (Default)</p>
 <p>Pin 2-3 geschlossen</p>	<p>CMOS-Daten Löschen</p>


	<p>Die folgende Schritte leiten Sie, das Kennwort für BIOS-System zurückzusetzen. Es ist wichtig, die Anweisung zu folgen</p>
---	---

#### ※ Prozedur zum Löschen des CMOS:


1. Ausschalten Sie das System.
2. Lassen Sie Pin 2-3 von JCOMS1 geschlossen sein.
3. Bitte warten Sie 15 Sekunden.
4. Lassen Sie Pin 1-2 von JCOMS1 geschlossen sein.
5. Einschalten Sie das System wieder.
6. Zurücksetzen Sie Ihr gewünschtes Kennwort oder löschen Sie die CMOS-Daten.




### Warnmeldung für Chassis-Öffnen Anschluss: JCI1

	Pin	Belegung
	1	Warnmeldung für Chassis Öffnen
	2	Masse

### CD-ROM Audio-In Header: JCDIN1/JCDIN2

	Pin	Belegung
	1	Eingabe v on linken Kanal
	2	Masse
	3	Masse
	4	Eingabe v on rechten Kanal

### Digital Audio Anschluss: JS PDIF1

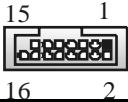
	Pin	Belegung
	1	+5V
	2	S/PDIF_Ausgang
	3	Masse

### Front Panel Audio Header: JAUDIO1


			
Pin	Belegung	Pin	Belegung
1	Mikrofon-Eingang/Zentrum	2	Masse
3	Mikrofon-Betriebsspannung/Bass	4	Audio-Betriebsspannung
5	Audio-Signal des rechten Kanals zur Vorderseite / Lautsprecher-Signal des rechten Kanals zur Vorderseite	6	Audio-Signal des rechten Kanals zur Vorderseite / Lautsprecher-Signal des rechten Kanals zur Vorderseite
7	Reserviert für spätere Verwendung durch Kopfhörer-Verstärker	8	Schlüsse
9	Audio-Signal des linken Kanals zur Vorderseite / Lautsprecher-Signal des linken Kanals zur Vorderseite	10	Audio-Signal des linken Kanals zur Vorderseite / Lautsprecher-Signal des linken Kanals zur Vorderseite

11	Audio-Signal des rechten Kanals von der Vorderseite / Lautsprecher-Signal des rechten Kanals von der Vorderseite	12	Audio-Signal des rechten Kanals von der Vorderseite / Lautsprecher-Signal des rechten Kanals von der Vorderseite
13	Audio-Signal des linken Kanals von der Vorderseite / Lautsprecher-Signal des linken Kanals von der Vorderseite	14	Audio-Signal des linken Kanals von der Vorderseite / Lautsprecher-Signal des linken Kanals von der Vorderseite

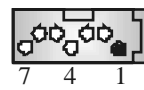
### Game Header: JGAME1

			
Pin	Belegung	Pin	Belegung
1	+5V	2	+5V
3	Joy stick B Knopf 1	4	Joy stick A Knopf 1
5	Joy stick B Koordierung X	6	Joy stick A Koordierung X
7	MIDI Ausgabe	8	Masse
9	Joy stick B Koordierung Y	10	Masse
11	Joy stick B Knopf 2	12	Joy stick A Koordierung Y
13	MIDI Eingabe	14	Joy stick A Knopf 2
15	Kein	16	+5V

### Frequenz Auswahl: JCLK1

	Pin	Belegung
	1-2, 5-6	100 MHz
	2-3, 5-6	133 MHz (Default)
	2-3, 4-5	166 MHz
	1-2, 4-5	200 MHz

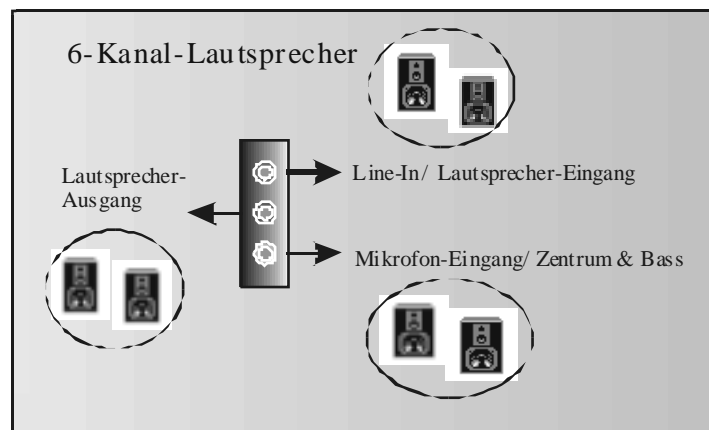
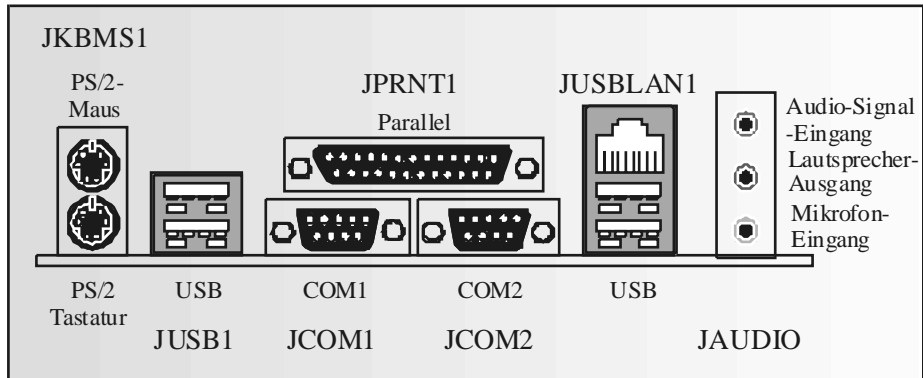
### Serial ATA Anschluss: JSATA1/ JSATA2

 JSATA1/ JSATA2	Pin	Belegung	Pin	Belegung
	1	Masse	2	TX+
	3	TX-	4	Masse
	5	RX-	6	RX+
	7	Masse		

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## Anschlüsse für die Rückwand



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## Français

### Caractéristiques principales de la M7VIT Grand

#### A. Matériel

##### Processeur

- Fournit un support Socket A.
- Prend en charge un unique support Socket A pour un processeur AMD de la famille Athlon/ Duron
- Bus face avant à 200/266/333/400 MHz.

##### Chipset

- Pont nord : VIA KT600.
- Pont sud : VIA VT8237.

##### Mémoire principale

- Prend en charge 2 barrettes DDR.
- Prend en charge la mémoire DDR haute vitesse à 200/266/333/400 MHz.
- Taille maximale de mémoire : 2 Go.

##### Super E/S

- Puce : Winbond W83697HF.

##### Expansion

- Cinq emplacements PCI 32 bits bus maître.
- Un emplacement AGP 8X.
- Un emplacement CNR (Type B uniquement)

##### IDE intégré

- Prend en charge quatre lecteurs de disques IDE.
- Prend en charge les modes PIO 4, Pont et bus maître Ultra DMA 33/66/100/133.

##### Réseau

- Puce : VIA VT6103
- Double vitesse - 10/100 Mb/s
- Duplex : semi et complet.
- Négociation auto : 10/100.

##### Codec son AC'97 intégré

- Puce : CM9739A.
- Conforme à la spécification AC'97.
- Prend en charge 6 canaux.

##### Périphériques intégrés

###### a. Face arrière

- 2 ports série.

- 
- 
- 1 port parallèle. (mode SPP/EPP/ECP)
  - Ports audio en position verticale.
  - 1 prise réseau.
  - Souris et clavier PS2.
  - 4 ports USB2.0.

#### ***b.Face avant***

- 1 port pour lecteur de disquettes prend en charge deux lecteurs de disquettes avec 360K, 720K, 1,2M, 1,44M et 2,88 Mo.
- 4 ports USB2.0.
- 1 connecteur audio avant.

#### **Dimensions**

- Facteur de forme ATX : 24,5cm X 30,5cm (I X L)

## **B. BIOS et logiciel**

#### **BIOS**

- BIOS Award.
- APM1.2.
- ACPI.
- Fonction USB.

#### **Logiciel**

- Prend en charge Warpspeeder™, 9th Touch™, FLASHER™, CPU Savior et StudioFun!™ (option)
- Offre la meilleure performance sous Windows 98 SE, Windows 2000, Windows Me, Windows XP, SCO UNIX etc.

## **Contenu du carton**

- Câble pour disque dur X1
- Câble pour lecteur de disquette X1
- Manuel de l'utilisateur X1
- Câble USB X1 (option)
- Panneau d'E/S arrière pour châssis ATX X 1
- CD complet d'installation des pilotes X 1
- CD d'application StudioFun! X 1 (option)
- Câble S/PDIF X 1(option)

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## WarpSpeeder



## Introduction

[ WarpSpeeder™ ], a new powerful control utility, features three userfriendly functions including Overclock Manager, Overvoltage Manager, and Hardware Monitor.

With the Overclock Manager, users can easily adjust the frequency they prefer or they can get the best CPU performance with just one click. The Overvoltage Manager, on the other hand, helps to power up CPU core voltage and Memory voltage. The cool Hardware Monitor smartly indicates the temperatures, voltage and CPU fan speed as well as the chipset information. Also, in the About panel, you can get detail descriptions about BIOS model and chipsets. In addition, the frequency status of CPU, memory, AGP and PCI along with the CPU speed are synchronically shown on our main panel.

Moreover, to protect users' computer systems if the setting is not appropriate when testing and results in system fail or hang, [ WarpSpeeder™ ] technology assures the system stability by automatically rebooting the computer and then restart to a speed that is either the original system speed or a suitable one.

## System Requirement

OS Support: Windows 98 SE, Windows Me, Windows 2000, Windows XP

DirectX: DirectX 8.1 or above. (The Windows XP operating system includes DirectX 8.1. If you use Windows XP, you do not need to install DirectX 8.1.)

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## Installation

1. Execute the setup execution file, and then the following dialog will pop up. Please click "Next" button and follow the default procedure to install.



2. When you see the following dialog in setup procedure, it means setup is completed. If the "Launch the WarpSpeeder Tray Utility" checkbox is checked, the Tray Icon utility and [WarpSpeeder™] utility will be automatically and immediately launched after you click "Finish" button.



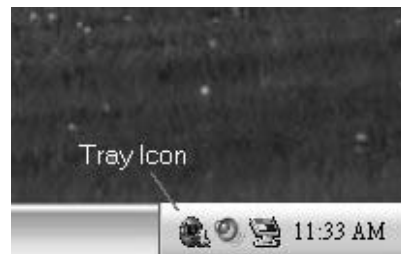
## Usage

*The following figures are just only for reference, the screen printed in this user manual will change according to your motherboard on hand.*

[WarpSpeeder™] includes 1 tray icon and 5 panels:

1. Tray Icon:

Whenever the Tray Icon utility is launched, it will display a little tray icon on the right side of Windows Taskbar.





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This utility is responsible for conveniently invoking [WarpSpeeder™] Utility. You can use the mouse by clicking the left button in order to invoke [WarpSpeeder™] directly from the little tray icon or you can right-click the little tray icon to pop up a popup menu as following figure. The “Launch Utility” item in the popup menu has the same function as mouse left-click on tray icon and “Exit” item will close Tray Icon utility if selected.



## 2. Main Panel

If you click the tray icon, [WarpSpeeder™] utility will be invoked. Please refer to the following figure; the utility's first window you will see is Main Panel.

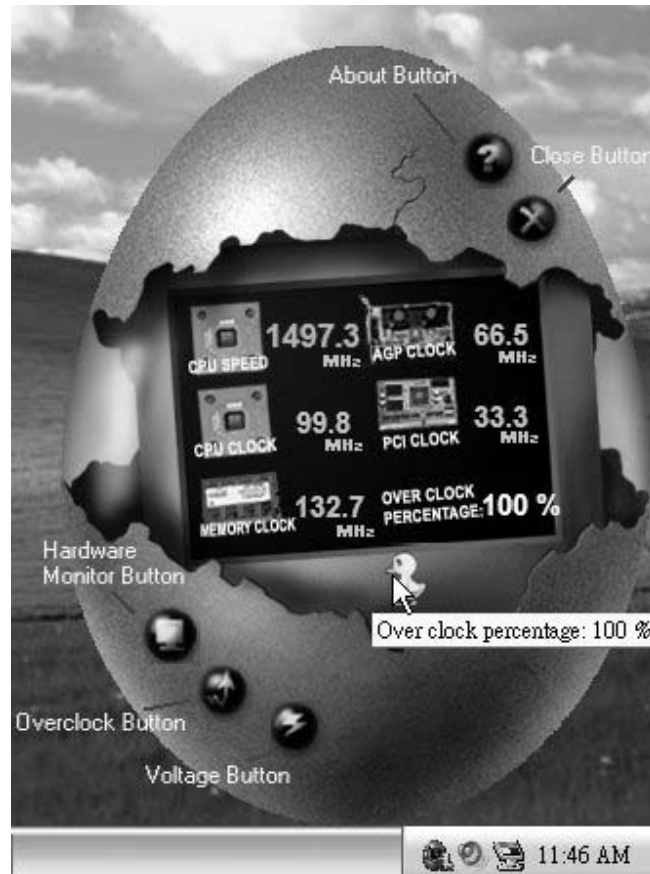
Main Panel contains features as follows:

- a. Display the CPU Speed, CPU external clock, Memory clock, AGP clock, and PCI clock information.
- b. Contains About, Voltage, Overclock, and Hardware Monitor Buttons for invoking respective panels.
- c. With a user-friendly Status Animation, it can represent 3 overclock percentage stages:

Duck walking => overclock percentage from 100% ~ 110 %

Duck running => overclock percentage from 110% ~ 120%

Duck burning => overclock percentage from 120% ~ above



### 3. Voltage Panel

Click the Voltage button in Main Panel, the button will be highlighted and the Voltage Panel will slide out to up as the following figure.

In this panel, you can decide to increase CPU core voltage and Memory voltage or not. The default setting is "No". If you want to get the best performance of overclocking, we recommend you click the option "Yes".



#### 4. Overclock Panel

Click the Overclock button in Main Panel, the button will be highlighted and the Overclock Panel will slide out to left as the following figure.

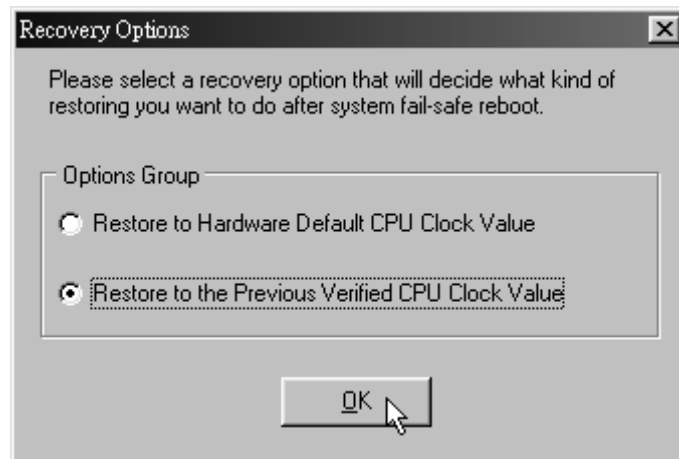


Overclock Panel contains these features:

- a. “-3MHz button”, “-1MHz button”, “+1MHz button”, and “+3MHz button”: provide user the ability to do real-time overclock adjustment.

*Warning: Manually overlock is potentially dangerous, especially when the overlocking percentage is over 110 %. We strongly recommend you verify every speed you overlock by click the Verify button. Or, you can just click Auto overlock button and let [ WarpSpeeder™ ] automatically gets the best result for you.*

- b. “Recovery Dialog button”: Pop up the following dialog. Let user select a restoring way if system need to do a fail-safe reboot.



- c. "Auto-overclock button": User can click this button and [ WarpSpeeder™ ] will set the best and stable performance and frequency automatically. [ WarpSpeeder™ ] utility will execute a series of testing until system fail. Then system will do fail-safe reboot by using Watchdog function. After reboot, the [ WarpSpeeder™ ] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog's setting.
- d. "Verify button": User can click this button and [ WarpSpeeder™ ] will proceed a testing for current frequency. If the testing is ok, then the current frequency will be saved into system registry. If the testing fail, system will do a fail-safe rebooting. After reboot, the [ WarpSpeeder™ ] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog's setting.

*Note: Because the testing programs, invoked in Auto-overclock and Verify, include DirectDraw, Direct3D and DirectShow tests, the DirectX 8.1 or newer runtime library is required. And please make sure your display card's color depth is High color (16 bit) or True color (24/32 bit) that is required for Direct3D rendering.*

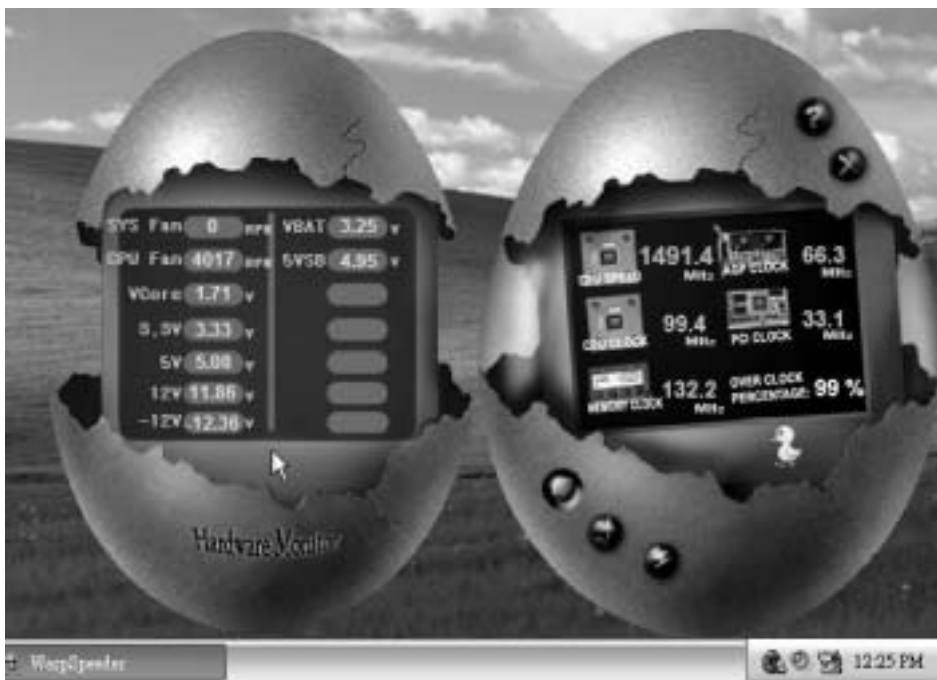
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## 5. Hardware Monitor Panel

Click the Hardware Monitor button in Main Panel, the button will be highlighted and the Hardware Monitor panel will slide out to left as the following figure.

In this panel, you can get the real-time status information of your system. The information will be refreshed every 1 second.



## 6. About Panel

Click the About button in Main Panel, the button will be highlighted and the About Panel will slide out to up as the following figure.

In this panel, you can get model name and detail information in hints of all the chipset that are related to overclocking. You can also get the mainboard's BIOS model and the Version number of [ WarpSpeeder™ ] utility.



*Note: Because the overclock, overvoltage, and hardware monitor features are controlled by several separate chipset, [ WarpSpeeder™ ] divide these features to separate panels. If one chipset is not on board, the correlative button in Main panel will be disabled, but will not interfere other panels' functions. This property can make [ WarpSpeeder™ ] utility more robust.*

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# StudioFun!™

## Introduction

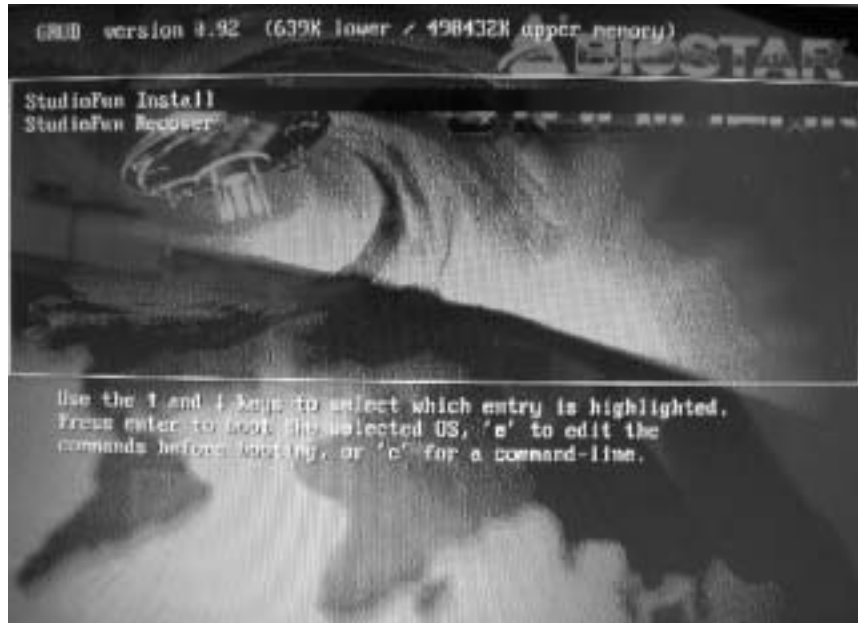
StudioFun!™ is a media-player based on optimized GNU/Linux distribution to bring a "Room Theater" experience into life. It plays DVD, VCD, MP3, Audio CD and other multimedia. Furthermore, Users can take snapshots of video and customize the saved images as screensavers or photo slideshows. Of course, the images can be stored in USB mass storage devices like flash disks and USB floppy disks.

## Hardware Requirements

The supported hardware list of StudioFun! updates regularly. So please check the "hwreq.txt" located in the root of StudioFun! Application Pack CD to get the latest supporting information.

## Installation Procedure

Insert the "StudioFun! Application Pack CD" in a CD/DVD ROM drive and let the system boot through the CD. The disk will boot and bring up the grub boot loader installation menu. Two options are specified: "StudioFun Install" and "StudioFun Recover".





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## StudioFun! Install

This option will do the basic installation of the distribution. The installation works on pre-installed windows or GNU/Linux distribution.

On selecting the "StudioFun Install" option the installer boots and displays a dialog box indicating the space required and waits for a confirmation. Selecting "Ok" will continue the installation while selecting "Cancel" will terminate the installation and reboot the machine.

If Windows or GNU/Linux is the only OS installed on the hard disk with no free space, it will resize the partition, either NTFS or FAT32 or ext2, and install StudioFun!. *If the hard disk has a 128MB of free space available, the installation will use the free space.*

After installing the base system you will be prompted to select the resolution from the following choices

1. 1024x768 (recommended)
2. 800x600
3. 640x480

Select the desired resolution. The default is 1024x768 or high-end graphics.

Next you will be prompted to choose the DVD area/region selection code. Choose this based on the type of DVD you will be playing.

The installation procedure will then probe for the type of mouse installed. The distribution currently supports PS/2, USB and Serial mice. In case of serial mouse you will have to move the mouse when prompted. The other two are probed and installed automatically.

The installation procedure will now finish, the CD is ejected and a dialog box prompting to reboot the machine is displayed. Press "OK" button and enjoy StudioFun!.

### 3.1.1 Error Messages

1. Media corrupted! Please check the media! The CD-ROM is corrupted
  2. Extraction of base system failed! Please try again later!! The CD-ROM is corrupted.
  3. Unsupported hardware found. Aborting.. If you try to install StudioFun! on an unsupported and undocumented hardware the above error message is popped.
  4. No device found! This error message is given if there is no hard disk in the system.
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## StudioFun! Recover

Where there is a MBR (Master Boot record) corruption, the “StudioFun Recover” will automatically probe the hard disk master boot record and find out the installed operating system(s). Once success, it will re-install the boot loader with correct options in the MBR. Please be noted that the newly probed one will over write any custom boot loader option specified from other GNU/Linux installations.

## Booting to StudioFun!

After the Installation, remove the CD from the CD-ROM and restart the system. After the rebooting, you will get the “GRUB boot loader menu screen”. Select the StudioFun! Option to boot to the StudioFun! Partition.



After executing the boot up you will see the main Desktop screen. The following section is a complete description of the Desktop application.

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## Desktop



This is the main shell of the StudioFun! software. It illustrates two main categories, one is the main "Media Control" part and the other is the "Control Panel".

### Media control

The Media Control consists of the following functionalities:

#### 1. VCD

This control icon will glow whenever a VCD is detected in a DVD/CD-ROM drive. The VCD will be auto-played *only* when it is put in to the drive when the Desktop (StudioFun! shell) is up and running whereas the control will simply glow to inform the user about a VCD present in the DVD/CD-ROM drive when the Desktop is not launched.

#### 2. DVD

This control will glow whenever a DVD is detected in a DVD drive. The DVD will be

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auto-played *only* when it is put in to the drive when the Desktop (StudioFun! shell) is up and running, otherwise, the control will simply glow to inform the user about a DVD present in the DVD/CD-ROM.

### **3. MP3**

This control will glow whenever a MP3 is detected in a DVD/CD-ROM drive. The MP3 will be auto-played *only* when it is put in to the drive when the Desktop (StudioFun! shell) is up and running, otherwise, the control will simply glow to inform the user about a MP3 present in the DVD/CD-ROM drive.

### **4. AUDIO**

This control will glow whenever a AUDIO is detected in a DVD/CD-ROM drive. The AUDIO will be auto-played *only* when it is put in to the drive when the Desktop (StudioFun! shell) is up and running, otherwise, the control will simply glow to inform the user about a AUDIO present in the DVD/CD-ROM drive.

### **5. FILE**

This control will glow whenever a FileCD (CDs with other mediatype files) is detected in a DVD/CD-ROM drive. The File CD will be auto-played *only* when it is put in to the drive when the Desktop (StudioFun! shell) is up and running, otherwise, the control will simply glow to inform the user about a FileCD present in the DVD/CD-ROM drive.

### **6. EJECT MEDIA**

When clicked this control, the file disk from the DVD/CDROM drives will be ejected.

### **7. EXIT**

This is the "Power on/off" control of the Desktop (StudioFun! shell).

## **Control Panel**

The Control panel part has five icons, which are shortcuts to other applications present in the StudioFun!. Tool tips will pop up once the mouse is rolled to the icons

### **1. Select Region**

Clicking this icon will invoke the application for selection DVD region settings. Refer to section 5.2 Select DVD Region application for more details.

### **2. Screensaver**

Clicking this icon will invoke the screensaver application. Refer to section 5.3 **Screensaver** for more details.

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### 3. Display Settings

Clicking this icon will invoke the application for changing the screen resolutions. Refer to section 5.4, **Display Settings** for more details.

### 4. File Manager

Clicking this icon will invoke the file manager. Refer to section 5.6 **File manager** for more details.

#### When user has a DVD and a CD-ROM Drive, DVD Drive has the priority:

If user has both DVD and a CD-ROM drive, DVD drive will be given the preference when both the drives hold valid media in them, i.e., if the CD-ROM drive has a media and a DVD drive also has a media, and the StudioFun! is started, the disk inside the DVD drive will be played.

#### Other general user scenarios

When a user clicks on any of the media-controls when it is not glowing, except the eject media and exit, the media-player will just come up and wait for user input.

## Software Details



### XINE

XINE is a multimedia player. It plays back Audio CD, DVD, and VCD. It also decodes multimedia files like AVI, MOV, WMV, and MP3 from local disk drives. It interprets most of the common multimedia formats.

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- **Features of Xine**

- a. Skinnable GUI
- b. Navigation controls (seeking, pause, fast, slow, next chapter, etc)
- c. On Screen Display (OSD) features
- d. DVD and external subtitles
- e. DVD/VCD menus (requires external plug-in)
- f. Audio and subtitle channel selection
- g. Closed Caption support
- h. Brightness, contrast, audio volume, hue, saturation (adjusting requires hardware/driver support)
- i. Play list
- j. Image snapshot
- k. Audio re-sampling
- l. Software de-interlacing algorithms
- m. Configuration dialog
- n. Aspect ratio changing
- o. Full-screen display

- **Supported File Formats**

- a. Video CD
- b. MPEG program streams (.mpg .mpeg)
- c. ogg (.ogg) avi (.avi)
- d. asf (.asf, .wmv)
- e. QuickTime (.mov)
- f. MPEG-Video (.mpv, .m2v)
- g. MPEG-Audio (.mp2, .mp3)
- h. WAV (.wav) Video CODEC
- i. MPEG 1/2
- j. MPEG 4 (aka OpenDivX)
- k. MS MPEG 4
- a. Chapter 5: Software Details 10
- l. Windows Media Video 7
- m. Motion JPEG

- **Remote Control Support.**

- a. Infrared interface
- 
-

- 
- 
- b. User-friendly

- **Usage of StudioFun! with CelomaChrome skin**

- a. Select VCD button to play a VCD disc
- b. Select DVD button to play a DVD disc
- c. Select CDDA button to play a Audio CD
- d. Select next chapter or MRL (>>|) button to play next track in Audio CD, VCD and MP3 songs and to play next chapter in DVD
- e. Select previous chapter or MRL (|<<) button to play previous track in Audio CD, VCD and MP3 songs and to play previous chapter in DVD
- f. Select slow motion (<<) button to play the video / audio in slow motion (Select play button after reaching the required position)
- g. Select fast motion (>>) button to play the video / audio in fast motion (Select play button after reaching the required position)
- h. Select subs +/- button to select the appropriate subtitle (Usable while playing)
- i. Select audio +/- button to select the appropriate audio track (For example when
- j. The DVD contains one audio track in English and the other with some other language,
- k. Usable while playing DVD's)
- l. Select "hide button" to hide the control panel of the player
- m. Select "menu" button to use menu while playing DVD
- n. Select "control" button to adjust brightness / color
- o. Select "setup" button to modify the settings of the player
- p. Select "f.scr" button to show the video output of the player in full screen mode
- q. Select "snap" button to take a snapshot of the currently playing video
- r. Select "plist" button to add / remove / manage playlist
- s. Select "mrl" button to add new file to play

---

---

## Select Region

### Overview

Select region is a utility to set a DVD region. With the help of this application user can set or change a DVD region. Only one region can be set at a time.

### About Select Region

With the help of this application you can set a region for DVD. Only one region can be set at a time. If you keep the mouse pointer on any region, you can view the countries, which comes under that region.

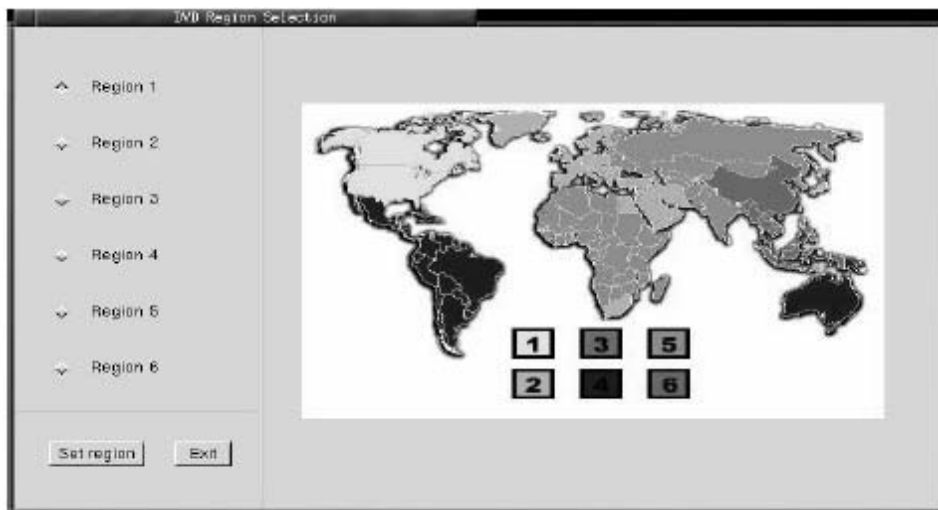
“Ok” - Click to set the selected region.

“Cancel” - Click to quit the application.

### How to select DVD region

You can select only one region at a time. You can change your selection by clicking on any other region.

- A snapshot of the application is shown below:



## Screensaver

### Screensaver

The xscreensaver daemon waits until the keyboard and mouse have been idle for a period, and then runs a graphics demo chosen at random. The demo is terminated as soon as there is any mouse or keyboard activity.



---

---

The xscreensaver-demo program is the graphical user interface to xscreensaver. It lets you tune the various parameters used by the xscreensaver daemon, and browse through the graphics demos.

StudioFun! comes with xscreensaver when you click on the screensaver icon the application comes up. Then user can choose various graphics demos like chbg,halo,hypercube or hyperball.

### **Screensaver comes with various options**

- **Preview Option:** When a user selects a particular graphics demo and clicks on preview button the demo comes up
  
- **Blank After Option:** The screensaver will blank the screen after the keyboard and mouse have been idle default time is 1 minute and user can change the settings.
  
- **Cycle After Option:** When screensaver is running this cycle time defines the time limit for each screensaver.
  
- **Mode Screensaver comes with various modes:**
  1. **Random Screen Saver:** When user chooses this option, Screensaver cycles through various graphics demos randomly
  2. **Only one Screen Saver:** When user chooses this option, screensaver displays only one graphics demo.
  3. **Blank Screen Only:** When user chooses this option, screensaver only blanks the screen instead of displaying the graphics demo.
  4. **Disable Screen Saver:** When user chooses this option, screensaver is disabled.
  
- **Various Graphics Demos**

XScreensaver comes with various screensaver

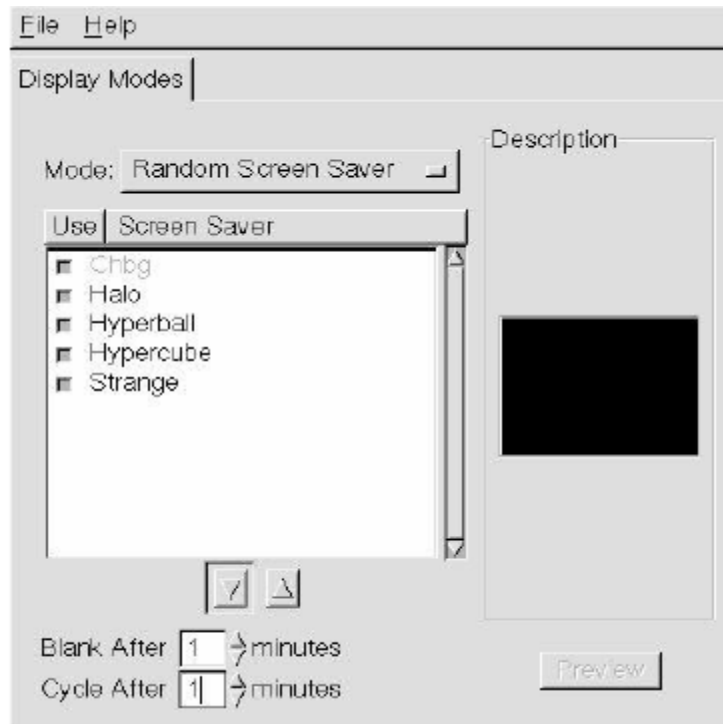
Chbg: This screensaver displays the images stored in StudioFun! the time gap between images is 5 seconds.

Hyperball

Hypercube

Halo

Strange
  
- A snapshot of the application is shown below:



## Display Settings

### Display Settings

Display setting is a program to change the current resolution settings of the Display. By default user of StudioFun! will be given a choice to select between any of the following three resolutions.

- 640x480
- 800x600
- 1024x768

The current resolution of the Display will be selected by default. It requires restart of the StudioFun! to reflect the changes made.

## File Manager

### Overview

File manger is a utility to copy files from deferent devices to hard disk and vice versa. User can copy files ffrom devices such as, floppy, CD-Rom and Flashdisk to hard disk and also from hard disk to floppy and Flashdisk.

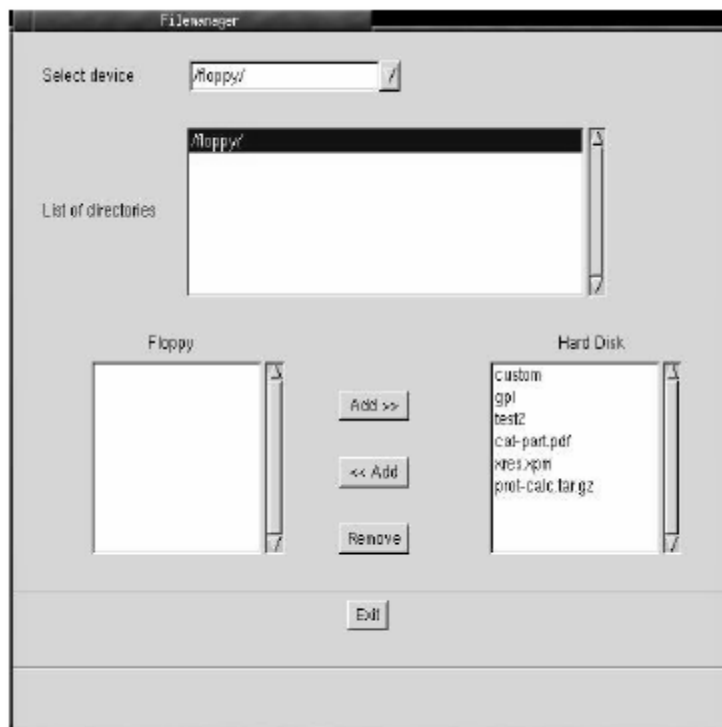
---

---

### About File manager

The hard disk files are stored in a directory called “/studio/un” on the hard disk. You can also delete files from hard disk, but you cannot delete files from any device.

- ✧ Select device - Contains the device names /floppy, /cdrom and /flashdisk. Select a device from/to which you want to copy files. **Please double click the device option twice to mount the device.**
- ✧ List Directories - Shows the list of directories of the selected device after double clicking it.
- ✧ Floppy/cdrom/Flashdisk - Shows the contents of the selected directory from the “List directories” field after double clicking it.
- ✧ Hard disk - Shows the contents of a directory called “/studio/un”.
- ✧ Add (>>) - Click to copy selected files from a device to hard disk.
- ✧ Add (<<) - Click to copy selected files from hard disk to a device.
- ✧ Remove - Click to delete files from hard disk.
- ✧ Exit - Click to quit the application.



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## Trouble Shooting

PROBABLE	SOLUTION
No power to the system at all. Power light don't illuminate, fan inside power supply does not turn on. Indicator light on keyboard does not turn on.	<ul style="list-style-type: none"> <li>* Make sure power cable is securely plugged in.</li> <li>* Replace cable</li> <li>* Contact technical support</li> </ul>
System inoperative. Keyboard lights are on, power indicator lights are lit, hard drive is spinning.	<ul style="list-style-type: none"> <li>* Using even pressure on both ends of the DIMM, press down firmly until the module snaps into place.</li> </ul>
System does not boot from hard disk drive, can be booted from CD-ROM drive.	<ul style="list-style-type: none"> <li>* Check cable running from disk to disk controller board. Make sure both ends are securely plugged in; check the drive type in the standard CMOS setup.</li> <li>* Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time.</li> </ul>
System only boots from CD-ROM. Hard disk can be read and applications can be used but booting from hard disk is impossible.	<ul style="list-style-type: none"> <li>* Back up data and applications files. Reformat the hard drive. Re-install applications and data using backup disks.</li> </ul>
Screen message says "Invalid Configuration" or "CMOS Failure."	<ul style="list-style-type: none"> <li>* Review system's equipment. Make sure correct information is in setup.</li> </ul>
Cannot boot system after installing second hard drive.	<ul style="list-style-type: none"> <li>* Set master/slave jumpers correctly.</li> <li>* Run SETUP program and select correct drive types. Call drive manufacturers for compatibility with other drives.</li> </ul>

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## Problemlösung

MÖGLICHE URSACHE	LÖSUNG
Das System hat keine Spannungsversorgung. Die Stromanzeige leuchtet nicht, der Lüfter im Inneren der Stromversorgung wird nicht eingeschaltet. Tastaturleuchten sind nicht an.	<ul style="list-style-type: none"> <li>* Versichern Sie sich, dass das Stromkabel richtig angebracht ist</li> <li>* Ersetzen Sie das Stromkabel</li> <li>* Wenden Sie sich an Ihre Kundendienststelle</li> </ul>
Das System funktioniert nicht. Die Tastaturleuchten sind an, die Stromanzeige leuchtet, die Festplatte dreht sich.	<ul style="list-style-type: none"> <li>* Drücken Sie das DIMM-Modul bei gleichem Druck an beide Seiten, bis es einrastet.</li> </ul>
Das System wird von der Festplatte nicht hochgefahren, vom CD-ROM-Treiber aber ja.	<ul style="list-style-type: none"> <li>* Überprüfen Sie das Kabel zwischen Festplatte und Festplatten-Controller. Versichern Sie sich, dass beide Enden richtig angebracht sind; überprüfen Sie den Laufwerktyp in der standardmäßigen CMOS-Einrichtung.</li> <li>* Ein Backup der Festplatte ist sehr wichtig. Alle Festplatten können irgendwann beschädigt werden.</li> </ul>
Das System wird nur von der CD-ROM hochgefahren. Die Festplatte wird gelesen und die Anwendungen sind funktionsfähig, aber es ist nicht möglich, das System von der Festplatte zu starten	<ul style="list-style-type: none"> <li>* Machen Sie eine Sicherungskopie von allen Daten und Anwendungsdateien. Formatieren Sie die Festplatte und installieren Sie die Anwendungen und Daten mit Hilfe von Backup-Disks</li> </ul>
Auf dem Bildschirm erscheint die Meldung "Ungültige Konfiguration" oder "CMOS Fehler."	<ul style="list-style-type: none"> <li>* Überprüfen Sie die Systemkomponenten und versichern Sie sich, dass diese richtig eingerichtet sind.</li> </ul>
Das System kann nach der Installation einer zweiten Festplatte nicht hochgefahren werden.	<ul style="list-style-type: none"> <li>* Setzen Sie die Master/Slave-Jumper richtig ein.</li> <li>* Führen Sie das SETUP-Programm aus und wählen Sie die richtigen Laufwerktypen. Wenden Sie sich an den Laufwerkhersteller, um die Kompatibilität mit anderen Laufwerken zu überprüfen</li> </ul>

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## Dépannage

PROBLÈME	SOLUTION
Pas d'alimentation au système. Les voyants lumineux ne s'allument pas, le ventilateur à l'intérieur du bloc d'alimentation ne se met pas en marche. Le voyant du clavier ne s'allume pas.	<ul style="list-style-type: none"> <li>* Assurez-vous que le câble d'alimentation est bien branché</li> <li>* Remplacez le câble</li> <li>* Contactez le service d'assistance technique.</li> </ul>

PROBLÈME	SOLUTION
Le système ne fonctionne pas. Les voyants du clavier sont allumés, les voyants de l'alimentation aussi, le disque dur tourne.	<ul style="list-style-type: none"> <li>* En exerçant une pression uniforme sur les deux extrémités du DIMM poussez le module vers le bas jusqu'à ce qu'il s'enclenche.</li> </ul>

PROBLÈME	SOLUTION
Le système ne se réinitialise pas du disque dur, réinitialisation possible depuis le lecteur CD-ROM.	<ul style="list-style-type: none"> <li>* Vérifiez le câble du disque à la carte du contrôleur de disque. Assurez-vous que les deux extrémités sont bien branchées ; vérifiez le type de lecteur dans la configuration standard de CMOS.</li> <li>* Il est très important d'effectuer des sauvegardes du disque dur. Les disques durs peuvent tomber en panne à n'importe quel moment.</li> </ul>

PROBLÈME	SOLUTION
Le système ne se réinitialise que depuis le CD-ROM. Le disque dur peut être lu et les applications sont utilisables mais il est impossible d'effectuer de réinitialisation depuis le disque dur.	<ul style="list-style-type: none"> <li>* Effectuez une sauvegarde des fichiers des données et d'application. Reformatez le disque dur. Réinstallez les applications et les données sauvegardées sur les disques de secours.</li> </ul>

PROBLÈME	SOLUTION
Un message s'affiche indiquant que la configuration n'est pas valide ou qu'il y a une panne du CMOS.	<ul style="list-style-type: none"> <li>* Vérifiez l'équipement du système. Assurez-vous que les informations de la configuration sont correctes.</li> </ul>

PROBLÈME	SOLUTION
Impossible de réinitialiser le système après l'installation d'un deuxième disque dur.	<ul style="list-style-type: none"> <li>* Réglez les cavaliers maître/esclave correctement.</li> <li>* Exécutez le programme SETUP et sélectionnez les types de lecteur. Contactez les fabricants pour toute question de compatibilité avec les autres disques.</li> </ul>



11/28/2003



# ***M7VIT Grand BIOS Setup***

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# ***M7VIT Grand BIOS Setup***

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## **BIOS Setup**

### **Introduction**

This manual discussed Award™ Setup program built into the ROM BIOS. The Setup program allows users to modify the basic system configuration. This special information is then stored in battery-backed RAM so that it retains the Setup information when the power is turned off.

The Award BIOS™ installed in your computer system's ROM (Read Only Memory) is a custom version of an industry standard BIOS. This means that it supports Intel Pentium® 4 processor input/output system. The BIOS provides critical low-level support for standard devices such as disk drives and serial and parallel ports.

Adding important has customized the Award BIOS™, but nonstandard, features such as virus and password protection as well as special support for detailed fine-tuning of the chipset controlling the entire system.

The rest of this manual is intended to guide you through the process of configuring your system using Setup.

### **Plug and Play Support**

These AWARD BIOS supports the Plug and Play Version 1.0A specification. ESCD (Extended System Configuration Data) write is supported.

### **EPA Green PC Support**

This AWARD BIOS supports Version 1.03 of the EPA Green PC specification.

### **APM Support**

These AWARD BIOS supports Version 1.1&1.2 of the Advanced Power Management (APM) specification. Power management features are implemented via the System Management Interrupt (SMI). Sleep and Suspend power management modes are supported. Power to the hard disk drives and video monitors can be managed by this AWARD BIOS.

### **ACPI Support**

Award ACPI BIOS support Version 1.0 of Advanced Configuration and Power interface specification (ACPI). It provides ASL code for power management and device configuration capabilities as defined in the ACPI specification, developed by Microsoft, Intel and Toshiba.

# M7VIT Grand BIOS Setup

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## PCI Bus Support

This AWARD BIOS also supports Version 2.1 of the Intel PCI (Peripheral Component Interconnect) local bus specification.

## DRAM Support

DDR SDRAM (Double Data Rate Synchronous DRAM) are supported.

## Supported CPUs

This AWARD BIOS supports the AMD CPU.

## Using Setup

In general, you use the arrow keys to highlight items, press <Enter> to select, use the <PgUp> and <PgDn> keys to change entries, press <F1> for help and press <Esc> to quit. The following table provides more detail about how to navigate in the Setup program by using the keyboard.

Keystroke	Function
Up arrow	Move to previous item
Down arrow	Move to next item
Left arrow	Move to the item on the left (menu bar)
Right arrow	Move to the item on the right (menu bar)
Move Enter	Move to the item you desired
PgUp key	Increase the numeric value or make changes
PgDn key	Decrease the numeric value or make changes
+ Key	Increase the numeric value or make changes
- Key	Decrease the numeric value or make changes
Esc key	Main Menu – Quit and not save changes into CMOS Status Page Setup Menu and Option Page Setup Menu – Exit Current page and return to Main Menu
F1 key	General help on Setup navigation keys
F5 key	Load previous values from CMOS
F7 key	Load the optimized defaults
F10 key	Save all the CMOS changes and exit



# M7VIT Grand BIOS Setup

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## Integrated Peripherals

This submenu allows you to configure certain IDE hard drive options and Programmed Input/ Output features.

## Power Management Setup

This submenu allows you to configure the power management features.

## PnP/PCI Configurations

This submenu allows you to configure certain "Plug and Play" and PCI options.

## PC Health Status

This submenu allows you to monitor the hardware of your system.

## Frequency/ Voltage Control

This submenu allows you to change CPU Vcore Voltage and CPU/PCI clock. **(However, this function is strongly recommended not to use. Not properly change the voltage and clock may cause CPU or M/B damage!)**

## Load Optimized Defaults

This selection allows you to reload the BIOS when the system is having problems particularly with the boot sequence. These configurations are factory settings optimized for this system. A confirmation message will be displayed before defaults are set.



```
Load Optimized Defaults (Y/N)? N
```

## Set Supervisor Password

Setting the supervisor password will prohibit everyone except the supervisor from making changes using the CMOS Setup Utility. You will be prompted with to enter a password.



```
Enter Password:
```

# M7VIT Grand BIOS Setup

---

## Set User Password

If the Supervisor Password is not set, then the User Password will function in the same way as the Supervisor Password. If the Supervisor Password is set and the User Password is set, the "User" will only be able to view configurations but will not be able to change them.

```
Enter Password:
```

## Save & Exit Setup

Save all configuration changes to CMOS(memory) and exit setup. Confirmation message will be displayed before proceeding

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

## Exit Without Saving

Abandon all changes made during the current session and exit setup. Confirmation message will be displayed before proceeding

```
Quit Without Saving (Y/N)? N
```

## Upgrade BIOS

This submenu allows you to upgrade bios.

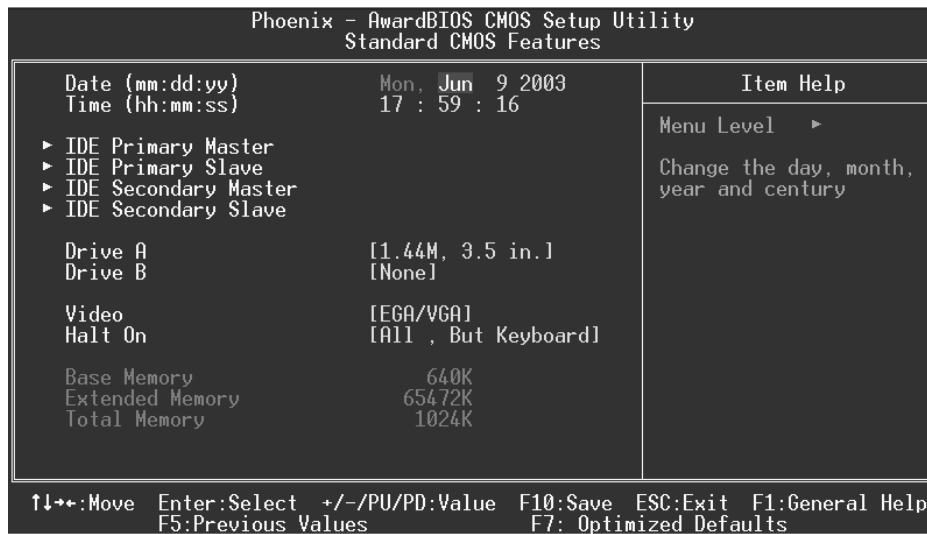
```
BIOS UPDATE UTILITY (Y/N)? N
```

# M7VIT Grand BIOS Setup

## 2 Standard CMOS Features

The items in Standard CMOS Setup Menu are divided into 10 categories. Each category includes no, one or more than one setup items. Use the arrow keys to highlight the item and then use the <PgUp> or <PgDn> keys to select the value you want in each item.

■ **Figure 2. Standard CMOS Setup**



# M7VIT Grand BIOS Setup

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## Main Menu Selections

This table shows the selections that you can make on the Main Menu.

<b>Item</b>	<b>Options</b>	<b>Description</b>
Date	mm : dd : yy	Set the system date. Note that the 'Day' automatically changes when you set the date.
Time	hh : mm : ss	Set the system internal clock.
IDE Primary Master	Options are in its sub menu.	Press <Enter> to enter the sub menu of detailed options
IDE Primary Slave	Options are in its sub menu.	Press <Enter> to enter the sub menu of detailed options.
IDE Secondary Master	Options are in its sub menu.	Press <Enter> to enter the sub menu of detailed options.
IDE Secondary Slave	Options are in its sub menu.	Press <Enter> to enter the sub menu of detailed options.
Drive A Drive B	360K, 5.25 in 1.2M, 5.25 in 720K, 3.5 in 1.44M, 3.5 in 2.88M, 3.5 in None	Select the type of floppy disk drive installed in your system.
Video	EGA/VGA CGA 40 CGA 80 MONO	Select the default video device.

## ***M7VIT Grand BIOS Setup***

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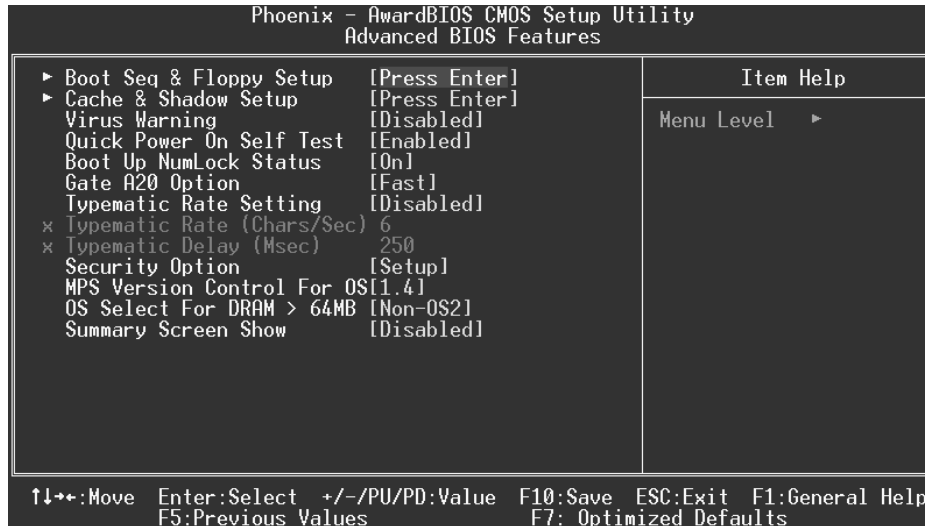
<b>Item</b>	<b>Options</b>	<b>Description</b>
Halt On	All Errors No Errors All, but Keyboard All, but Diskette All, but Disk/ Key	Select the situation in which you want the BIOS to stop the POST process and notify you.
Base Memory	N/A	Displays the amount of conventional memory detected during boot up.
Extended Memory	N/A	Displays the amount of extended memory detected during boot up.
Total Memory	N/A	Displays the total memory available in the system.



# M7VIT Grand BIOS Setup

## 3 Advanced BIOS Features

■ Figure 3. Advanced BIOS Setup



### Boot Seq & Floppy Setup

This item allows you to setup boot seq & Floppy.

#### **First/ Second/ Third/ Boot Other Device**

These BIOS attempt to load the operating system from the devices in the sequence selected in these items.

**The Choices:** Floppy, LS120, HDD-0, SCSI, CDROM, HDD-1, HDD-2, HDD-3, ZIP 100, LAN, Disabled.

#### **Swap Floppy Drive**

For systems with two floppy drives, this option allows you to swap logical drive assignments.

**The Choices:** Disabled (default), Enabled.

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

Enabling this option will test the floppy drives to determine if they have 40 or 80 tracks. Disabling this option reduces the time it takes to boot-up.

**The Choices:** Enabled (default), Disabled.

# M7VIT Grand BIOS Setup

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## Cache & Shadow Setup

This item allows you to setup cache & shadow setup.

### **CPU Internal Cache**

Depending on the CPU/chipset in use, you may be able to increase memory access time with this option.

**Enabled** (default)      Enable cache.  
Disabled                      Disable cache.

### **External Cache**

This option enables or disables "Level 2" secondary cache on the CPU, which may improve performance.

**Enabled** (default)      Enable cache.  
Disabled                      Disable cache.

### **CPU L2 Cache ECC Checking**

This item allows you to enable/disable CPU L2 Cache ECC Checking

**The Choices:** **Enabled** (default), Disabled.

### **Video BIOS Shadow**

Determines whether video BIOS will be copied to RAM for faster execution.

**Enabled** (default)      Optional ROM is enabled.  
Disabled                      Optional ROM is disabled.

## Virus Warning

This option allows you to choose the Virus Warning feature that is used to protect the IDE Hard Disk boot sector. If this function is enabled and an attempt is made to write to the boot sector, BIOS will display a warning message on the screen and sound an alarm beep.

**Disabled** (default)      Virus protection is disabled.  
Enabled                      Virus protection is activated.

## Quick Power On Self Test

Enabling this option will cause an abridged version of the Power On Self-Test (POST) to execute after you power up the computer.

**Enabled** (default)      Enable quick POST.  
Disabled                      Normal POST.

## Boot Up NumLock Status

Selects the NumLock. State after power on.

**On** (default)              Numpad is number keys.  
Off                              Numpad is arrow keys.

## Gate A20 Option

Select if chipset or keyboard controller should control Gate A20.

Normal                      A pin in the keyboard controller

# M7VIT Grand BIOS Setup

---

**Fast** (default) controls Gate A20.  
Lets chipset control Gate A20.

## Typematic Rate Setting

When a key is held down, the keystroke will repeat at a rate determined by the keyboard controller. When enabled, the typematic rate and typematic delay can be configured.

**Disabled** (default)  
Enabled

## Typematic Rate (Chars/Sec)

Sets the rate at which a keystroke is repeated when you hold the key down.

**The Choices:** 6 (default), 8, 10, 12, 15, 20, 24, 30.

## Typematic Delay (Msec)

Sets the delay time after the key is held down before it begins to repeat the keystroke.

**The Choices:** 250 (default), 500, 750, 1000.

## Security Option

This option will enable only individuals with passwords to bring the system online and/or to use the CMOS Setup Utility.

System	A password is required for the system to boot and is also required to access the Setup Utility.
<b>Setup</b> (default)	A password is required to access the Setup Utility only.

This will only apply if passwords are set from the Setup main menu.

## MPS Version Control For OS

The BIOS supports version 1.1 and 1.4 of the Intel multiprocessor specification. Select version supported by the operation system running on this computer.

**The Choices:** 1.4 (default), 1.1.

## OS Select For DRAM > 64MB

A choice other than Non-OS2 is only used for OS2 systems with memory exceeding 64MB.

**The Choices:** Non-OS2 (default), OS2.

## Summary Screen Show

This item allows you to enable/ disable display the Summary Screen Show.

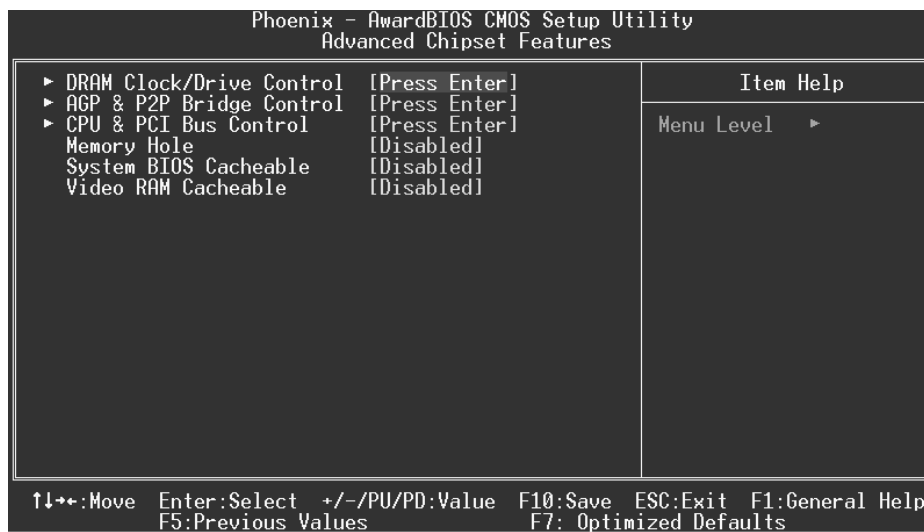
**The Choices:** Disabled (default), Enabled.

# M7VIT Grand BIOS Setup

## 4 Advanced Chipset Features

This submenu allows you to configure the specific features of the chipset installed on your system. This chipset manage bus speeds and access to system memory resources, such as DRAM. It also coordinates communications with the PCI bus. The default settings that came with your system have been optimized and therefore should not be changed unless you are suspicious that the settings have been changed incorrectly.

### ■ Figure 4. Advanced Chipset Setup



### DRAM Clock/Drive Control

To control the Clock/Drive. If you highlight the literal “Press Enter” next to the “DRAM Clock/Drive Control” label and then press the enter key, it will take you a submenu with the following options:

#### **DRAM Clock**

This item determines DRAM clock following 100MHz, 133MHz, 166MHz or By SPD.

**The Choices:** 100MHz, 133MHz, **By SPD** (default), 166MHz.

#### **DRAM Timing**

This item determines DRAM clock/ timing follow SPD or not.

**The Choices:** **Auto By SPD** (default), Manual, Turbo, Ultra.

# M7VIT Grand BIOS Setup

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## **DRAM CAS Latency**

When DRAM is installed, the number of clock cycles of CAS latency depends on the DRAM timing.

**The Choices:** 2.5 (default), 2.

## **Bank Interleave**

This item allows you to enable or disable the bank interleave feature.

**The Choices:** Disabled (default), 2 bank, 4 bank.

## **Precharge to Active (Trp)**

This item allows you to specify the delay from precharge command to activate command.

**The Choices:** 2T, 3T, 4T, 5T (default).

## **Tras Non-DDR400/ DDR400**

This item allows you to set Tras Non-DDR400/DDR400.

**The Choices:** 7T/10T (default), 6T/8T, 5T/6T, 8T/12T.

## **Active to CMD (Trcd)**

Use this item to specify the delay from the activation of a bank to the time that a read or write command is accepted.

**The Choices:** 2T, 3T, 4T, 5T (default).

## **DRAM Burst Length**

**The Choices:** 4 (default), 8.

## **DRAM Queue Depth**

This item permits to place the depths of the memory. The deeper the depth is, the better is this function.

**The Choices:** 4 level (default), 2 level, 3 level.

## **DRAM Command Rate**

This item controls clock cycle that must occur between the last valid write operation and the next command.

**The Choices:** 1T Command, 2T Command (default).

## **Write Recovery Time**

**The Choices:** 3T (default), 2T.

## **tWTR for DDR400 ONLY**

**The Choices:** 3T (default), 1T, 2T.

## **AGP & P2P Bridge Control**

If you highlight the literal "Press Enter" next to the "AGP & P2P Bridge Control" label and then press the enter key, it will take you a submenu with the following options:

# M7VIT Grand BIOS Setup

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## **AGP Aperture Size**

Select the size of the Accelerated Graphics Port (AGP) aperture. The aperture is a portion of the PCI memory address range dedicated for graphics memory address space. Host cycles that hit the aperture range are forwarded to the AGP without any translation.

**The Choices:** 64M, 256M, **128M** (default), 32M, 16M, 8M, 4M.

## **AGP Mode**

This item allows you to select the AGP Mode.

**The Choices:** **4X** (default), 2X, 1X.

## **AGP Driving Control**

By choosing "Auto" the system BIOS will the AGP output Buffer Drive strength P Ctrl by AGP Card. By choosing "Manual", it allows user to set AGP output Buffer Drive strength P Ctrl by manual.

**The Choices:** **Auto** (default), Manual.

## **AGP Driving Value**

While AGP driving control item set to "Manual", it allows user to set AGP driving.

**The Choices:** **DA** (default).

## **AGP Fast Write**

**The Choices:** Enabled, **Disabled** (default).

## **AGP Master 1 WS Write**

When Enabled, writes to the AGP (Accelerated Graphics Port) are executed with one-wait states.

**The Choices:** **Disabled** (default), Enabled.

## **AGP Master 1 WS Read**

When Enabled, read to the AGP (Accelerated Graphics Port) are executed with one wait states.

**The Choices:** **Disabled** (default), Enabled.

## **AGP 3.0 Calibration cycle**

This item allows you to enable or disable AGP 3.0 Calibration cycle.

**The Choices:** **Enabled** (Default), Disabled.

## **CPU & PCI Bus Control**

If you highlight the literal "Press Enter" next to the "CPU & PCI Bus Control" label and then press the enter key, it will take you a submenu with the following options:

### **PCI Master 0 WS Write**

When enabled, writes to the PCI bus are executed with zero-wait states.

**The Choices:** **Enabled** (default), Disabled.

# ***M7VIT Grand BIOS Setup***

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## **PCI2 Master 0 WS Write**

When enabled, writes to the AGP bus are executed with zero-wait states.

**The Choices:** Enabled (default), Disabled.

## **PCI1 Post Write**

When Enabled, CPU writes are allowed to post on the PCI bus.

**The Choices:** Enabled (default), Disabled.

## **PCI2 Post Write**

When Enabled, CPU writes are allowed to post on the AGP bus.

**The Choices:** Enabled (default), Disabled.

## **VLink 8X Support**

**The Choices:** Enabled (default), Disabled.

## **PCI Delay Transaction**

The chipset has an embedded 32-bit posted write buffer to support delay transactions cycles. Select Enabled to support compliance with PCI specification.

**The Choices:** Enabled (default), Disabled.

## **Memory Hole**

When enabled, you can reserve an area of system memory for ISA adapter ROM. When this area is reserved, it cannot be cached. Refer to the user documentation of the peripheral you are installing for more information.

**The Choices:** Disabled (default), 15M – 16M.

## **System BIOS Cacheable**

Selecting the “Enabled” option allows caching of the system BIOS ROM at F0000h-FFFFh, which can improve system performance. However, any programs writing to this area of memory will cause conflicts and result in system errors.

**The Choices:** Enabled, Disabled (default).

## **Video RAM Cacheable**

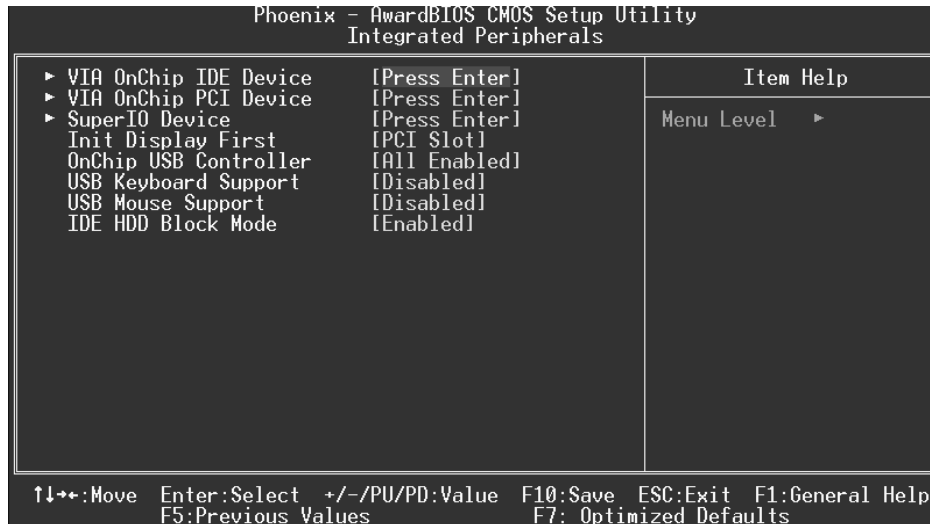
Enabling this option allows caching of the video RAM, resulting in better system performance. However, if any program writes to this memory area, a system error may result.

**The Choices:** Enabled, Disabled (default).

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## 5 Integrated Peripherals

■ Figure 5. Integrated Peripherals



### VIA OnChip IDE Device

The chipset contains a PCI IDE interface with support for two IDE channels.

Select "Enabled" to activate the first and / or second IDE interface. If you install a primary and / or secondary add-in IDE interface, select "Disabled" to deactivate an interface. If you highlight the literal "Press Enter" next to the "Onchip IDE Control" label and then press the enter key, it will take you a submenu with the following options:

#### **OnChip IDE Channel 0/1**

The motherboard chipset contains a PCI IDE interface with support for two IDE channels. Select "Enabled" to activate the first and/or second IDE interface. Select "Disabled" to deactivate an interface if you are going to install a primary and/or secondary add-in IDE interface.

**The Choices:** Enabled (default), Disabled.

#### **IDE Prefetch Mode**

The "onboard" IDE drive interfaces supports IDE prefetching for faster drive access. If the interface does not support prefetching. If you install a primary and/or secondary add-in IDE interface, set this option to "Disabled".

**The Choices:** Enabled (default), Disabled.



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## **IDE Primary / Secondary Master / Slave PIO**

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

**The Choices:** Auto (default), Mode0, Mode1, Mode2, Mode3, Mode4.

## **IDE Primary / Secondary Master / Slave UDMA**

Ultra DMA/100 functionality can be implemented if it is supported by the IDE hard drives in your system. As well, your operating environment requires a DMA driver (Windows 95 OSR2 or a third party IDE bus master driver). If your hard drive and your system software both support Ultra DMA/100, select Auto to enable BIOS support.

**The Choices:** Auto (default), Disabled.

## **IDE HDD Block Mode**

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

**The Choices:** Enabled (default), Disabled.

## **VIA OnChip PCI Device**

If you highlight the literal "Press Enter" next to the "OnChip PCI Device" label and then press the enter key, it will take you a submenu with the following options:

### **VIA-3058 AC97 Audio**

This option allows you to control the onboard AC97 audio.

**The Choices:** Auto (default), Disabled.

### **VIA-3068 MC97 Modem**

This option allows you to control the onboard MC97 modem.

**The Choices:** Auto (default), Disabled.

### **VIA-3043 OnChip LAN**

This option allows you to control the onboard LAN.

**The Choices:** Enabled (default), Disabled.

### **Onboard LAN Boot ROM**

This item allows you to enable or disable Onboard LAN Boot ROM.

**The Choices:** Disabled (default), Enabled.

### **Onchip USB Controller**

Select "Enabled" if your system contains a Universal Serial Bus (USB) controller and you have USB peripherals.

**The Choices:** All Enabled (default), All Disabled.

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## USB Keyboard/ Mouse Support

This item allows you to enable or disable the USB Keyboard/ Mouse Legacy Support.

**The Choices:** Disabled (default), Enabled.

## Super IO Device

If you highlight the literal “Press Enter” next to the “Super IO Device” label and then press the enter key, it will take you a submenu with the following options:

### **Onboard FDC Controller**

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

**The Choices:** Enabled (default), Disabled.

### **Onboard Serial Port 1**

Select an address and corresponding interrupt for the first and second serial ports.

**The Choices:** Disabled, **3F8/IRQ4** (default), 2F8/IRQ3, 3E8/IRQ4, 2E8/IRQ3, Auto.

### **Onboard Serial Port 2**

Select an address and corresponding interrupt for the first and second serial ports.

**The Choices:** Disabled, **2F8/IRQ3** (default), 3F8/IRQ4, 3E8/IRQ4, 2E8/IRQ3, Auto.

### **UART Mode Select**

This item allows you to determine which Infra Red (IR) function of onboard I/O chip.

**The Choices:** Normal (default), AS KIR, IrDA.

### **RxD, TxD Active**

This item allows you to determine which Infrared (IR) function of onboard I/O chip.

**The Choices:** Hi / Lo (default), Hi / Hi, Lo / Hi, Lo / Lo.

### **IR Transmission Delay**

This item allows you to enable/disable IR transmission delay.

**The Choices:** Enabled (default), Disabled.

### **UR2 Duplex Mode**

Select the value required by the IR device connected to the IR port. Full-duplex mode permits simultaneous two-direction transmission. Half-duplex mode permits transmission in one direction only at a time.

**The Choices:** Half (default), Full.

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## Use IR Pins

Consult your IR peripheral documentation to select the correct setting of the TxD and RxD signals.

**The Choices:** IR-Rx2Tx2 (default), RxD2, TxD2.

## Onboard Parallel Port

This item allows you to determine access onboard parallel port controller with which I/O Address.

**The Choices:** 378/IRQ7 (default), 278/IRQ5, 3BC/IRQ7, Disabled.

## Parallel Port Mode

The default value is SPP.

### The Choices:

SPP(default)	Using Parallel port as Standard Printer Port.
EPP	Using Parallel Port as Enhanced Parallel Port.
ECP	Using Parallel port as Extended Capabilities Port.
ECP+EPP	Using Parallel port as ECP & EPP mode.

## EPP Mode Select

Select EPP port type 1.7 or 1.9.

**The Choices:** EPP 1.7(default), EPP1.9.

## ECP Mode Use DMA

Select a DMA Channel for the port.

**The Choices:** 3 (default), 1.

## Game Port Address

Game Port I/O Address.

**The Choices:** 201 (default), 209, Disabled.

## Midi Port Address

Midi Port Base I/O Address.

**The Choices:** 330 (default), 300, 290, Disabled.

## Midi Port IRQ

This determines the IRQ in which the Midi Port can use.

**The Choices:** 5, 10 (default)

## Init Display First

With systems that have multiple video cards, this option determines whether the primary display uses a PCI Slot or an AGP Slot.

**The Choices:** PCI Slot (default), AGP.



# M7VIT Grand BIOS Setup

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Min. Power Saving  
Minimum power management.  
Suspend Mode = 1 hr.  
HDD Power Down = 15 min

Max. Power Saving  
Maximum power management only available for sl CPU's.  
Suspend Mode = 1 min.  
HDD Power Down = 1 min.

**User Defined** (default)  
Allows you to set each mode individually.  
When not disabled, each of the ranges are from 1 min. to 1 hr. except for HDD  
Power Down which ranges from 1 min. to 15 min. and disable.

## **HDD Power Down**

When enabled, the hard disk drive will power down and after a set time of system inactivity.  
All other devices remain active.

**The Choices:** Disabled (default), 1 Min, 2 Min, 3 Min, 4 Min, 5 Min, 6 Min, 7 Min, 8 Min,  
9 Min, 10 Min, 11 Min, 12 Min, 13 Min, 14 Min, 15Min.

## **Suspend Mode**

The item allows you to select the suspend type under ACPI operating system.

**The Choices:** Disabled (default), 1 Min, 2 Min, 4 Min, 6 Min, 8 Min, 10 Min, 20 Min, 30  
Min, 40 Min, 1 Hour.

## **Video Off Option**

This field determines when to activate the video off feature for monitor power  
management.

**The Choices:** Suspend→Off (default), Always on.

## **Video Off Method**

This option determines the manner in which the monitor is goes blank.

**V/H SYNC+Blank** (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

The Choices: Stop Grant, PwrOn Suspend

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## **Modem Use IRQ**

This determines the IRQ, which can be applied in MODEM use.

**The Choices:** 3 (default), 4 / 5 / 7 / 9 / 10 / 11 / NA.

## **Run VGABIOS if S3 Resume**

Choosing Enabled will make BIOS run VGA BIOS to initialize the VGA card when system wakes up from S3 state . The system time is shortened if you disable the function , but system will need AGP driver to initialize the card . So , if the AGP driver of the VGA card does not support the initialization feature , the display may work abnormally or not function after S3 .

**The Choices:** Auto, Yes (default), No.

## **Soft-Off by PWR-BTTN**

Pressing the power button for more than 4 seconds forces the system to enter the Soft-Off state when the system has “hung.”

**The Choices:** Delay 4 Sec, Instant-Off (default).

## **IRQ/Event Activity Detect**

If you highlight the literal “Press Enter” next to the “IRQ/Event Activity Detect” label and then press the enter key, it will take you a submenu with the following options:

### **VGA**

When set to **On**, any event occurring at a VGA Port will awaken a system which has been powered down.

**The Choices:** Off (default), On.

### **LPT & COM**

When this option is set to **On**, any event occurring at a COM(serial)/LPT (printer) port will awaken a system which has been powered down.

**The Choices:** LPT/COM (default), COM, LPT, NONE.

### **HDD & FDD**

When this option is set to **On**, any event occurring on a hard drive or a floppy drive will awaken a system which has been powered down.

**The Choices:** On (default), Off.

### **PCI Master**

When set to **On**, you need a LAN add-on card which supports the power function. It should also support the wake-up on LAN jump.

**The Choices:** Off (default), On.

### **PowerOn by PCI Card**

When you select Enabled, a PME signal from PCI card returns the system to Full ON state.

**The Choices:** Disabled (default), Enabled.

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## Wake Up On LAN/Ring

To use this function, you need a LAN add-on card which support power on function. It should also support the wake-up on LAN jump.

**Disabled** (default) Wake up on LAN/Ring not supported.  
Enabled Wake up on LAN/Ring supported.

## RTC Alarm Resume

When "Enabled", you can set the date and time at which the RTC (real-time clock) alarm awakens the system from Suspend mode.

**The Choices:** Enabled, **Disabled** (default).

## IRQs Activity Monitoring

**Press Enter** to access another sub menu used to configure the different wake up events (i.e. wake on LPT & COMM activity).

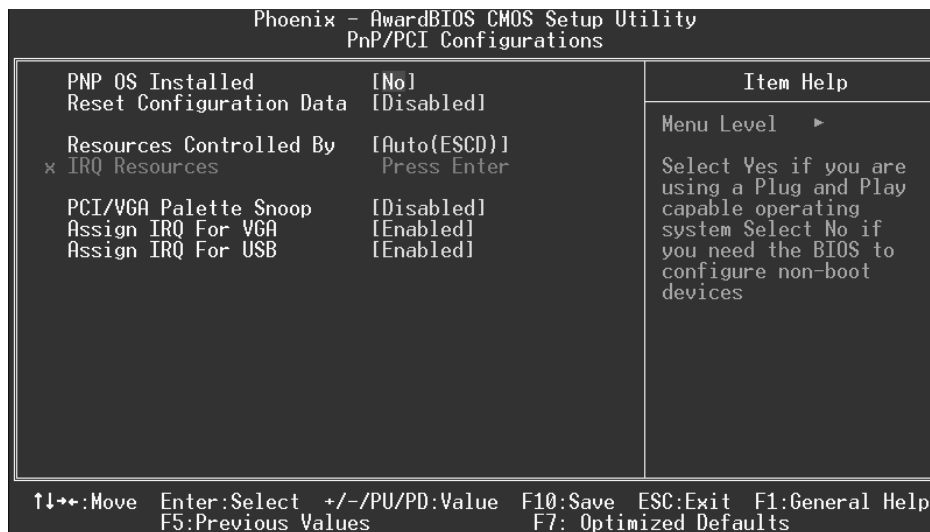
Primary INTR	On
IRQ3 (COM2)	Enabled
IRQ4 (COM1)	Enabled
IRQ5 (LPT2)	Enabled
IRQ6 (Floppy Disk)	Enabled
IRQ7 (LPT1)	Enabled
IRQ8 (RTC Alarm)	Disabled
IRQ9 (IRQ2 Redir)	Disabled
IRQ10 (Reserved)	Disabled
IRQ11 (Reserved)	Disabled
IRQ12 (PS/2 Mouse)	Enabled
IRQ13 (Coprocessor)	Enabled
IRQ14 (Hard Disk)	Enabled
IRQ15 (Reserved)	Disabled

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## 7 PnP/PCI Configurations

This section describes configuring the PCI bus system. PCI, or Personal Computer Interconnect, is a system which allows I/O devices to operate at speeds nearing the speed of the CPU itself uses when communicating with its own special components. This section covers some very technical items and it is strongly recommended that only experienced users should make any changes to the default settings.

■ **Figure 7. PnP/PCI Configurations**



### PNP OS Installed

When set to YES, BIOS will only initialize the PnP cards used for the boot sequence (VGA, IDE, SCSI). The rest of the cards will be initialized by the PnP operating system like Window™ 95. When set to NO, BIOS will initialize all the PnP cards. For non-PnP operating systems (DOS, Netware™), this option must set to NO.

**The Choices:** No (default), Yes.

### Reset Configuration Data

The system BIOS supports the PnP feature which requires the system to record which resources are assigned and protects resources from conflict. Every peripheral device has a node, which is called ESCD. This node records which resources are assigned to it. The system needs to record and update ESCD to the memory locations. These locations (4K) are reserved in the system BIOS. If the Disabled (default) option is chosen, the system's ESCD will update only when the new configuration varies from the last one. If the Enabled



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option is chosen, the system is forced to update ESCDs and then is automatically set to the "Disabled" mode.

The above settings will be shown on the screen only if "Manual" is chosen for the resources controlled by function.

Legacy is the term, which signifies that a resource is assigned to the ISA Bus and provides non-PnP ISA add-on cards. PCI / ISA PnP signifies that a resource is assigned to the PCI Bus or provides for ISA PnP add-on cards and peripherals.

**The Choices:** Disabled (default), Enabled.

## **Resources Controlled By**

By Choosing "**Auto(ESCD)**" (default), the system BIOS will detect the system resources and automatically assign the relative IRQ and DMA channel for each peripheral. By Choosing "Manual", the user will need to assign IRQ & DMA for add-on cards. Be sure that there are no IRQ/DMA and I/O port conflicts.

## **IRQ Resources**

This submenu will allow you to assign each system interrupt a type, depending on the type of device using the interrupt. When you press the "Press Enter" tag, you will be directed to a submenu that will allow you to configure the system interrupts. This is only configurable when "Resources Controlled By" is set to "Manual".

IRQ-3	assigned to	PCI Device
IRQ-4	assigned to	PCI Device
IRQ-5	assigned to	PCI Device
IRQ-7	assigned to	PCI Device
IRQ-9	assigned to	PCI Device
IRQ-10	assigned to	PCI Device
IRQ-11	assigned to	PCI Device
IRQ-12	assigned to	PCI Device
IRQ-14	assigned to	PCI Device
IRQ-15	assigned to	PCI Device

## **PCI / VGA Palette Snoop**

Choose Disabled or Enabled. Some graphic controllers which are not VGA compatible take the output from a VGA controller and map it to their display as a way to provide boot information and VGA compatibility.

However, the color information coming from the VGA controller is drawn from the palette table inside the VGA controller to generate the proper colors, and the graphic controller needs to know what is in the palette of the VGA controller. To do this, the non-VGA graphic controller watches for the Write access to the VGA palette and registers the snoop data. In PCI based systems, where the VGA controller is on the PCI bus and a non-VGA graphic controller is on an ISA bus, the Write Access to the palette will not show up on the ISA bus if the PCI VGA controller responds to the Write.

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In this case, the PCI VGA controller should not respond to the Write, it should only snoop the data and permit the access to be forwarded to the ISA bus. The non-VGA ISA graphic controller can then snoop the data on the ISA bus. Unless you have the above situation, you should disable this option.

<b>Disabled</b> (default)	Disables the function.
Enabled	Enables the function.

### **Assign IRQ For VGA**

This item allows the users to choose which IRQ to assign for the VGA.

**The Choices:** Enabled (default), Disabled.

### **Assign IRQ For USB**

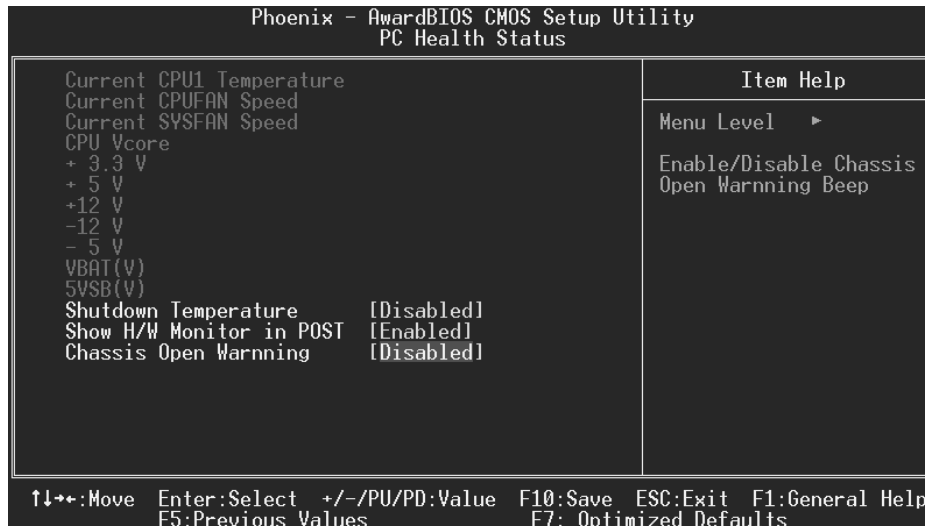
This item allows the users to choose which IRQ to assign for the USB.

**The Choices:** Enabled (default), Disabled.

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## 8 PC Health Status

■ Figure 8. PC Health Status



### Current CPU1 Temperature

This field displays the current temperature of the CPU.

### Current CPUFAN Speed

This field displays the current speed of CPU fan.

### Current SYSFAN Speed

This field displays the current speed SYSTEM fan.

### CPU Vcore/3.3V/ +5V/ +12V/ -12V/ -5V/ VBAT(V)/ 5VSB(V)

Detect the system's voltage status automatically.

### Shutdown Temperature

This item allows you to set up the CPU shutdown Temperature. This item only effective under Windows 98 ACPI mode.

**The Choices:** Disabled (default), 60°C/140°F, 65°C/149°F, 70°C/158°F, 75°C/167°F.

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## **Show H/W Monitor in POST**

If your computer contains a monitoring system, it will show PC health status during POST stage. The item offers several delay time for you to choose.

**The Choices:** Enabled (default), Disabled.

## **Chassis Open Warning**

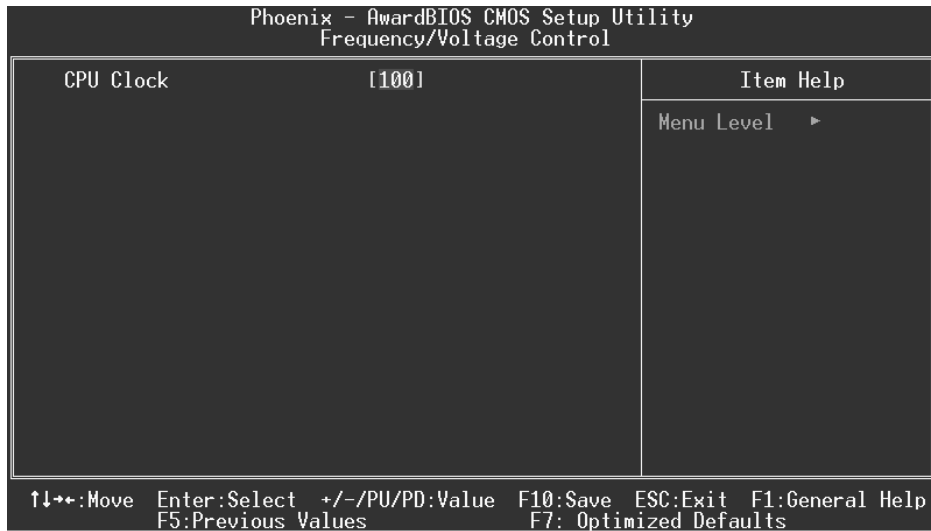
This item allows you to enable or disable Chassis Open Warning beep.

**The Choices:** Disabled (Default), Enabled.

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## 9 Frequency/ Voltage Control

■ Figure 9. Frequency/ Voltage Control



### CPU Clock

This item allows you to select CPU Clock, and CPU over clocking.



If unfortunately, the system's frequency that you are selected is not functioning, there are two methods of booting-up the system.

Method 1: Clear the COMS data by setting the JCOMS1 ((2-3 closed)) as "ON" status. All the CMOS data will be loaded as defaults setting.

Method 2: Press the <Insert> key and Power button simultaneously, after that keep-on pressing the <Insert> key until the power-on screen showed. This action will boot-up the system according to FSB of the processor.

※ **It's strongly recommended to set CPU Vcore and clock in default setting. If the CPU Vcore and clock are not in default setting, it may cause CPU or M/B damage.**