FCC Information and Copyright

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation.

The vendor makes no representations or warranties with respect to the contents here of and specially disclaims any implied warranties of merchantability or fitness for any purpose. Further the vendor reserves the right to revise this publication and to make changes to the contents here of without obligation to notify any party beforehand.

Duplication of this publication, in part or in whole, is not allowed without first obtaining the vendor's approval in writing.

The content of this user's manual is subject to be changed without notice and we will not be responsible for any mistakes found in this user's manual. All the brand and product names are trademarks of their respective companies.

LAYOUT OF M7NCG PRO1
COMPONENT INDEX2
ENGLISH
M7NCG Pro Features
Package contents4
How to setup Jumper5
CPU Installation
DDR-DIMM-Modules: DIMMB1-2, DIMMA16
Jumpers, Headers, Connectors & Slots
DEUTSCH14
Spezifikationen von M7NCG Pro14
Verpackungsinhalt15
Einstellung der Jumper16
Installation der CPU16
DDR-DIMM-Modules: DIMMB1-2, DIMMA117
Jumpers, Headers, Anschlüsse & Slots18
DUALVGAPORT
STUDIO FUN!
Introduction
Hardware Requirements
Installation Procedure
Booting to Studio Fun!
Media control
Control Panel
Software Details
Screensaver
File Manager 40
TROUBLE SHOOTING
PROBLEMLÖS UNG 44



Layout of M7NCG Pro

Component Index



A. Power Source Selection for Keyboard and mouse (JKBV1)

- B. Power Source Selection for USB (JUSBV2)
- C. COM1-Header (JCOM1-HEADER)
- D. Back PanelConnector
- F. Front Audio Head er (JF_AUDIO1)
- G. CD Audio-In Header (JCDIN1)
- H. PCI BUS Slots (PCI1-5)
- J. Front 1394 Head er (J1394A)
- K. Front 1394 Head er (J1394B)
- L. Power Source Selection for USB (JUSBV1)

- M. Front USB Header (JUSB 1)
- N. Front USB Header (JUSB 2)
- O. 5V/5VSB Selection for USB (JUSBV4)
- P. Wake On LAN Header (JW OL1)
- Q. System FAN Header (JSF AN1)
- R. Clear CMOS Function (JCMOS)
- E. North Bridge Fan Header (JNFAN1) S. Digital Audio Connector (J_SPDIF1)
 - T. Case Open Connector (JC 1)
 - U. Accelerated Graphics Port Slot (AGP1)
 - V. IDE Connectors (IDE 1-2)
- I. Front Panel Connector (JPANEL1) W. Floppy Disk Connector (FDD1)
 - X. ATX Power Connector (JATXPW ER1)
 - Y. DIMM Modules (DIMMA1)
 - Z. DIMM Modules (DIMMB1-2)
 - A1. CPU Fan Connector (JCFAN1)
 - A2. Frequency Selection (JCLK3)

English

M7NCG Pro Features

A. Hardware

Provides Socket-462. Supports the AMD[®] processor up to XP 3000+. Front Side Bus at 200/266/333 MHz.

Chipset North Bridge: nFORCE2 IGP. South Bridge: **O**MCP-T Chipset. OHigh Speed 800Mb/s Hyper-Transport interface to the MCP-T.

Main Memory Supports up to 3 DDR devices. Supports 200/266/333MHz (without ECC) DDR devices.(The DDR devices support 200/266/333Mhz as using On-board VGA.) High performance 128-bit DDR 400 Twin Bank Memory Architecture.

Maximum memory size of 3GB.

Super I/O Chip: Winbond W83627HF.

Slots Five 32-PCI bus master slots. One AGP: OAGP3.0 8X interface at 533Mb/s. OSupports AGP 2.0 1X, 2X, 4X.

On Board IDE Supports four IDE disk drives.

Supports FIO Mode 4, Bride Mode and Ultra DMA 33/66/100/133 Bus Master Mode.

On Board VGA GeForce4 MX Series graphics processing unit(GPU).

1394A Chip

- Chip: RTL8801B.
- Support 2 ports with transfer up to 400 mbps.

On Board AC'97 Sound Codec Chip: ALC650.

- Compliant with AC'97 specification.
- AC99 2.2/2.3 interface.

Supports 6 channels.

On Board Peripherals

- If loppy port supports 2 FDDs with 360K, 720K, 1.2M, 1.44M and 2.88Mbytes.
- Supports 2VGA ports. (For NVIDIA nView)
- Supports 1 parallel port. (SPP/EPP/ECP mode)
- Supports 1 horizontal audio port.
- Supports 1 LAN port. (optional)
- Supports PS/2 mouse and PS/2 key board.
- Supports 6USB2.0 ports. (front*4 + rear*2)
- Supports 1 S/PDIF Connector.
- Support 1 Case Open Connector.
- Support 1 WOL Connector.
- Support 21EEE1394A (FireWire) Connectors.

Dimensions

ATX Form Factor: 24.4 X 30.4cm. (W X L)

B. BIOS & Software

BIOS

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

Software

- Supports CPU Savior[™], 9th Touch[™], FLASHER™, WinFlasher[™], StudioFun![™] (optional) and Watchdog[™].
- Cifers the highest performance for Windows 98 SE, Windows 2000, Windows Me, Windows XP, SCOUNIX etc.

Package contents

- HDD Cable X1
- FDD Cable X1
- User's Manual X1
- USB Cable X1 (optional)
- Rear I/O Panel f or ATX Case X1 (optional)
- Fully Setup Driver CD X1
- S/PDIF Cable X1 (optional)
- IEEE1394A Cable X1 (optional)
- StudioFun! Application CD X1 (optional)

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 1and 2 are "*close*" when jumper cap is placed on these 2 pins.







Jumper dose

Jumper open

Pin1-2 dose

CPUInstallation

- 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 piv ot. 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 Headers: JCFAN1

1	Pin No.	Assignment
<u>I</u>	1	Ground
	2	+12V
JCFAN1	3	Sense

System Fan Headers: JSFAN1

	Pin No.	Assignment
	1	Ground
1 JSFAN1	2	+12V
	3	Sense

North Bridge Fan Header: JNFAN1

	Pin No.	Assignment
1	1	Ground
JNFAN1	2	+12V

DDR-DIMM-Modules: DIMMB1-2, DIMMA1

For Dual-channel DDR (128-bit) high performance, at least2 or more DIMM modules must be installed. (It has to be the combination of DIMMA and DIMMB) With only one DIMM installed, the memory performs only at 64-bit

DR AM Access Time: 2.5/ Unbuffered DDR 200/266/333 MHz Type required. DR AM Type: 64MB/ 128MB/ 256MB/ 512MB/ 1GB DIMM Module (184 pin)

DIMM Socket Location	DDR Module	Total Memory Size (MB)		
DIMMB1	64MB/128MB/256MB/512MB/1GB			
	*1			
DIMMB2	64MB/128MB/256MB/512MB/1GB	Max is		
	*1	3GB		
DIMMA1	64MB/128MB/256MB/512MB/1GB			
	*1			
Only for reference				

Total Memory Size with Unbuffered DIMMs

InstallingDDR Module

- 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 sldt 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 $0\sim4$, 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.

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

Front Panel Connector: JPANEL1

Front USB Header: JUSB1/2

	Pin	Assignment	Pin	Assignment
2	1	+5V(fused)	2	+5V(fused)
	3	USBP4-	4	USBP5-
9	5	USBP4+	6	USBP5+
	7	Ground	8	Ground
JUSB1/2	9	KEY	10	NA

Wake On LAN Header: JWO L1

	Pin	Assignment
,] ĕ	1	+5V_SB
	2	Ground
JWOL1	3	Wake up
	Ŭ	Make up

Power Connectors: JATXPWER1

	PIN	Assignment	PIN	Assignment
10 66 20	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
JATXPWER1	8	PW_OK	18	-5V
	9	+5V_SB	19	+5V
	10	+12V	20	+5V

Front 1394 Header: J1394A/ J1394B

0	Pin	Assignment	Pin	Assignment
	1	A1+	2	A1-
102	3	Ground	4	Ground
J1394A/J1394B	5	B1+	6	B1-
	7	+12V	8	+12V
	9	KEY	10	NA

Power Source Selection for Keyboard/ Mouse: JKBV1

JKBV1	Assignment	Description
l I Pin 1-2 close	+5V	+5V for key board and mouse
Pin 2-3 close	+5V Standby Volt <i>a</i> ge	PS/2 Mouse and PS/2 Keyboard are powered with +5V standby v oltage

Note: In order to power-on keyboard and mouse function, "JKBV1" jumper cap should be placed on pin 2-3.

Power Source Selection for USB: JUSBV1/ JUSBV2/ JUSBV4

JUSBV1/JUSBV2/ JUSBV4	Assignment	Description
1 • 3 Pin 1-2 close	+5V	JUSBV1: 5V for JUSB1 port JUSBV2: 5V for JUSBLAN1 port
1 • • • 3 Pin 2-3 close	+5V Standby Voltage	JUSBV1: JUSB1 port powered with standby v otage of 5V JUSBV2: JUSBLAN1 port powered with standby v otage of 5V JUSBV4: JUSB2 port powered with

Note: In order to power-on USB devices function, "JUSBV1/JUSBV2/ JUSBV4" jumper cap should be placed on pin 2-3 respectively.

Clear CMOS Jumper: JCMOS

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



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

% Clear CMOS Procedures:

- Remov e AC power line.
 Set the jumper to "Pin 2-3 Close".

- Wait for fives econds.
 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: JC1

	Pin	Assignment	
1	1	Case Open Signal	
JC1	2	Ground	

CD-ROM Audio-In Header: JCDIN1

	Pin	Assignment	
	1	Left Channel Input	
JCDIN1	2	Ground	
	3	Ground	
	4	Right Channel Input	

Front Panel Audio Header: JF_AUDIO1

	2000 0 10 10000 9					
Pin						
1	Mic In/ Center	2	Ground			
3	Mic Power/ Bass	4	Audio Power			
5	Right Line Out/Speaker Out Right	6	Right Line Out/Speaker Out Right			
7	Reserv ed	8	Кеу			
9	Left Line Out/Speaker Out Left	10	Left Line Out/Speaker Out Left			

Digital Audio Connector: J_SPDIF1

	Pin	Assignment
	1	+5V
١ŏ	2	SPDIF_OUT
J SPDIF1	3	Ground
0_01 011 1		

COM1 Header: JCOM1-HEADER1

10009 2001 JCOM1-HEADER1			
Pin	Assignment	Pin	Assignment
1	RIN1	2	RIN3
3	DOUT2	4	DOUT3
5	Ground	6	RIN2
7	DOUT1	8	RIN4
9	-XRI1	10	NA

System Operation Mode: JCLK3

JCLK3	Assignment
	User Mode (default)
Pin 1-2 Open	(133/ 166 MHz)
	Saf e mode
Pin 1-2 Close	(100 MHz)

Note: When overclock function failed and system is unable to boot-up, please follow the instruction below:

- 1.
- Turn off the system. Closed the JCLK3 jumper. 2.
- 3. Turn on the system.
- Enter CMOS setup menu and load defaults settings. Turn off the system. Open the JCLK3 jumper.
- 4. 5. 6.
- 7. Turn on the system.



Back Panel Connectors

-

Deutsch

Spezifik ationen von M7 NC G Pro

A. Hardware

CPU Unterstützung für Sockel 462.

- Unterstützung für den AMD[®]Prozessor bis zu XP 3000+.
- FSB mit 200/266/333 MHz.

Chipsatz Northbridge: nFORCE2 IGP.

- Southbridge: **O**MCP-T Chipset.
 - Ø800Mb/s Hohe-Geschwindigkeit: Hyper-Transport -Interface zu den Chipsatz MCP-T.

Hauptspeicher

Unterstützung für 3DDR Geräte.

Unterstützung für 200/266/333MHz (ohne ECC) DDR Geräte. (Falls man Onboard VGA benutzt, unterstutzt der Hauptspeicher nur 200/266/333MHzDDR Geräte .)

- 128-Bit High-Performance DDR 400 mit der Twin-Bank Architektur.
- Die maximale Speichergröße ist 3GB.

Super I/O

Chip: Winbond W83627HF.

Slots Fünf 32-Bit PCI-Bus-Slots.

Ein AGP-Slot: • AGP3.0 8X Interface bei 533Mb/s.

Ourterstützung für AGP2.0 1X, 2X und 4X.

Onboard-IDE

Unterstützung für vier IDE Diskettenlauf werke.

Unterstützung für PIO Modus 4, Master Modus und Ultra DMA 33/66/100/133 Bus Master Modus.

Onboard-VGA

GeForce4 MX Series graphics processing unit(GPU).

1394A Chip

- Chip: RTL8801B.
- Unterstützung für 2 1394-Ports mit der Datenübertragungsrate bis auf maximal 400Mbps.

Onboard-Audio Chip: ALC650.

- Entspricht die Spezifikation von AC'97.
- AC99 2.2/2.3 Interface.
- Unterstützung für 6-Kanal.

Onboard-Peripheriegeräte

- 1 Floppy -Port mit Unterstützung für 2 Diskettenlauf werke. (360KB, 720KB, 1.2MB, 1.44MB und 2.88MB)
- 2 VGA-Schnittstellen. (Für Nvidia nView)
- 1 parallele Schnittstelle. (SPP/EPP/ECP-Modus)
- 1 horizontales Audio-Port.
- 1 LAN-Port. (optional)
- Unterstützung für PS/2-Maus und PS/2-Tastatur.
- 6 USB2.0-Ports. (front*4 + rear*2)
- Unterstützung für 2IEEE 1394(FireWire) Anschlüsse.

Abmessungen ATX Form Factor: 24.4 X 30.4cm (W XL)

B. BIOS & Software

BIOS

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

Software

- Unterstützung für CPU Savior[™], 9th Touch[™], FLASHR™, WirFlasher[™], StudioFunl[™] (optional) and Watchdog[™].
- Unterstützung für die am meisten verbreiteten Betriebsysteme wie Windows 98SE, Windows 2000, Windows ME, Windows XP and SCO UNIX usw.

Verpack ungsinhalt

- HDD Kable X1
- FDD Kable X1
- Benutzer Handbuch X1
- USB Kable X1 (optional)
- I/O-Rückwand für ATX Gehäuse X1 (optional)
- Treiber CD für Installation X1
- S/PDIF Kable X1 (optional)
- IEEE1394 Kable X1 (optional)
- StudioFun! ApplicationCD X1 (optional)

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 geschlossen



Jumper geöffnet

Pin1-2 geschlossen

Installation der CPU

- Schritt 1: Ziehen Sie den Hebelseitlich vom Sockel weg. Heben Sie den Hebel dann in 90-Grad-Winkel nach oben.
- Schritt 2: Suchen Sie nach der schaff en 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

1	Pin	Belegung
<u> </u>	1	Masse
	2	+12V
JCFAN1	3	Sensor

System-Lüfter Headers: JS FAN1

	Pin	Belegung
	1	Masse
1 JSFAN1	2	+12V
	3	Sensor

Northbridge-Lüfter Header: JNFAN1

	Pin	Belegung	
1	1	Masse	
JNFAN1	2	+12V	

DDR-DIMM-Modules: DIMMB1-2, DIMMA1

Für Dual-Kanal DDR (128-Bit) High-Performance, muss man mindestens 2 oder mehr DIMM-Module installieren (Es ist unbedingt, daß man DIMMA mit DIMMB als ein Paar benutzt.) Wenn man nur ein DIMM installiert, funktioniert der Spreicher nur 64-Bit.

DRAM-Zugriffszeit: 2.5V nicht registrierter DDR 200/266/333 MHz Typ erforderlich.

DRAM Typen: 64MB/ 128MB/ 256MB/ 512MB/ 1GB DIMM-Module (184-Pin) Gesamt Speichergröße von nicht registrierter DIMMs

DIMM-Sockel Standort	DDR-Modul	Speichergröße
DIMMB1	64MB/128MB/256MB/512MB/1GB *1	
DIMMB2	64MB/128MB/256MB/512MB/1GB *1	maxi mal 3GB
DIMMA1	64MB/128MB/256MB/512MB/1GB *1	
	Nur als Referenz*	

Installation von DDR-Modul

- 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 & Slots

Diskettenanschluss: FDD1

Das Motherboard enthält einen standardmäßigen Diskettenanschluss, der 360K-, 720K-, 1.2M-, 1.44M- und 2.88M-Disketten unterstützt. Dieser Anschluss unterstützt die mitgelief erte 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 mt zweii 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: PCI1-5

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.

JPANELI $2 \frac{SLP}{1} \frac{PWR_LED}{(+)(+)(-)} ONOFF$ IR $2 \frac{2}{1} \frac{OOOOO}{OOO} OOOOOOOOOOOOOOOOOOOOOOOO$					
Pin	Belegung	Funktion	Pin	Belegung	Funktion
1	+5V		2	Sleep Control	Schlafen-
3	Kein	Lautsprecher	4	Masse	Knopf
5	Kein	Anschluss	6	Kein	Kein
7	Lautsprecher		8	Power LED (+)	Power-
9	HDD LED (+)	Festplatte	10	Power LED (+)	LED
11	HDD LED (-)	LED	12	Power LED (-)	
13	Masse	Zurücksetzn-	14	Power-Knopf	Power-On
15	Reset Control	Knopf	16	Masse	Knopf
17	Kein		18	Schlüsse	Kein Pin
19	Kein	IrDA-	20	Schlüsse	IrDA
21	+5V	Anschluss	22	Masse	Anschluss
23	IRTX		24	IRRX	

Anschlüsse für die Vorderseite: JPANEL1

Front USB Header: JUSB1/2

	Pin	Belegung	Pin	Belegung
2	1	+5V(geschmelzt)	2	+5V(geschmelzt)
	3	USBP4-	4	USBP5-
1	5	USBP4+	6	USBP5+
JUSB1/2	7	Masse	8	Masse
	9	Schlüsse	10	Kein

Wake On LAN Header: JWO L1

	Pin	Belegung
	1	+5V_SB
	2	Masse
JWOL1	3	Wake-up

Stromversorgungsanschluss: JATXPWER1

	PIN	Belegung	PIN	Belegung
10 20	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
1 11	7	Masse	17	Masse
JATXPWER1	8	PW_OK	18	-5V
	9	+5V_SB	19	+5V
	10	+12V	20	+5V

Front 1394 Header: J1394A/ J1394B

01	Pin	Belegung	Pin	Belegung
	1	A1+	2	A1-
102	3	Masse	4	Masse
J1394A/J1394B	5	B1+	6	B1-
	7	+12V	8	+12V
	9	Schlüsse	10	Kein

*Schlüsse: Kein Pin.

Auswahl von Stromversorgungsmodi für Tastatur/Maus: JKBV1

JKBV1	Beschreibung	Funktion
Pin 1-2 geschlossen	+5V	5Vfür Tastatur und Maus
¹ ³ geschlossen	+5V reservierte Spannung	PS/2-Maus und PS/2-Tastatur werden durch 5V reservierte Spannungaktiviert
Anmerkung: Um d	ie "power-on	by Keyboard and Mouse" Funktion z

behandeln, sdlen Pin2-3 durch die Jumperkappe verdeckt werden.

Auswahl von Stromsversorgungsmodi für USB: JUSBV1/ JUS BV2/ JUS BV4

JUSBV1/JUSBV2/ JUSBV4	Beschreibung	Funktion
1 0 3 Pin 1-2 geschlossen	+5V	JUSBV1: 5V für JUSB1 JUSBV2: 5V für JUSBLAN1
		JUSBV4: 5V fürJUSB2
	+5V_SB	JUSBV1: JUSB1 ist aktiviert durch die reservierte 5V Spannang
Pin 2-3 geschlossen		JUSBV2: JUSBLAN1 ist aktiviert durch die reservierte 5V Spannang
		JUSBV4: JUSB2 ist aktiviert durch die reservierte 5V Spannang
Anmerkung: Um die '	power-on by	USB-Geräte" Funktion zu behandeln

sollen pin2-3 von JUBV1/ JUBV2/ JUSBV4 durch die.

Jumper zum Löschen CMOS : JCMOS

JCMOS	Beschreibung
	Normale Operation (Default)
Pin 1-2 geschlossen	
	CMOS-Daten Löschen
Pin 2-3 geschlossen	

WARNUNG PassenSic ap 1	Die folgende Schritte leiten Sie, das Kennwort für BIOS-System zurückzusetzen. Es ist wichtig, die Anweisung zu folgen.	
	~1	

% Prozeß zum Löschen des CMOS:

- 1. Ausschalten Sie den AC-Netzstecker.
- Lassen Sie Pin 2-3 v on JCOMS1 geshclossen sein.
 Bitte warten Sie 15 Sekunden.
- 4. Lassen Sie Pin 1-2 von JCOMS1 geshclossen sein.
- 5. Schließen Sie den AC-Netzstecker an.
- 6. Zurücksetzen Sie das Kennwort nach ihrem Wille oder löschen Sie die CMOS-Daten.

Anschluss für Gehäuse-Öffnen: JC1

	Pin	Belegung
	1	Gehäuse Öffnen Signal
JC1	2	Masse

CD-ROM Audio-In Header: JCDIN1

	Pin	Belegung
	1	Link-Kanal Eingabe
	2	Masse
JCDIN1	3	Masse
	4	Recht-Kanal Eingabe

Front Panel Audio Header: JF_AUDIO1

	2000 0 10 100000 9 JF_AJDI01						
Pin	Belegung	Pin	Belegung				
1	Mikrofon-Eingangssignal/ Zentrum	2	Masse				
3	Mikrofon-Betriebspannung	4	Audio-Betriebsspannung				
5	Audio-Signal des rechten Kanals zur Vorderseite/ Lautsprecher-Signal des rechter Kanals zur Vorderseite	6	Audio-Signal des rechten Kanals zur Vorderseite/Lautsprecher-Signal des rechten Kanals zur Vorderseite				
7 Reserv iert für spate Verwendung durch Kopf hörer-Verstärker		8	Kein Pin				
9	Audio-Signal des linken Kanals zur Vorderseite/ Lautsprecher-Signal des linken	10	Audio-Signal des linken Kanals zur Vorderseite/ Lautsprecher-Signal des linken Kanals zur Vordersete				

Kanals zur Vorderseite	
*Reserviert: Nicht in Gebrauch	

Digital Audio Anschluss: J_SPDIF1

	Pin	Belegung
	1	+5V
	2	SPDIF_OUT
J_SPDIF1	3	Masse

COM1 Header: JCOM1-HEADER1

	10009 2001 JCOM1-HEADER1		
Pin	Belegung	Pin	Belegung
1	RIN1	2	RIN3
3	DOUT2	4	DOUT3
5	Masse	6	RIN2
7	DOUT1	8	RIN4
9	-XRI1	10	Kein

System Operation Modus: JCLK3

JCLK3	Assignment	
	Benutzer Modus (default)	
Pin 1-2 geschlossen	(133/ 166 MHz)	
	Sicherheit Modus	
Pin 1-2 geöffnet	(100 MHz)	

Anmerkung: Wenn "Überspanng Funktion" nicht gelungen ist folgen Sie bitte die Instruktion darunter:

1. Bitte vauss chalton Sie den AC-Notzstecker.

2. Lassen Sie Pin 1-2 v on JCLK3 geschlossen sein.

3. Schließen Sie den AC-Notzstecker an.

4. Betreten Sie "CMOS Setup Menü" und wählen sie Default-Setting.

5. Ausschalten Sie den AC-Netzstecker wieder.

Lassen Sie Pin 1-2 v on JCLK3 geöffnet sein.
 Schließen Sie den AC-Netzstecker wieder.

Anschlüsse für die Rückwand



Dual VGA Port

*Supporting when using integrated NVIDIA VGA.

Enter "*Display Properties*", then dick on "*Advanæd*" and finally dick on "*GeForce4 MX Integrated GPU*", you will find the following functions - **Standard**: Display for only one monitor. 1.





- **Clone**: Display the same view on the primary and secondary monitor.

- Horizontal Span: The view can be enlarged horizontally from the primary to the secondary monitor.



- **Vertical Span**: The view can be enlarged vertically from the primary to the secondary monitor. *In addition*, just like the "Horizontal Span", this functionality also allows you to *work two different tasks on two monitors (primary and secondary) simultaneously.*



- **Dual View**: This functionality allows you to work two different tasks on two monitors (primary and secondary) simultaneously.

For Dual View, you have to differentiate the primary and the secondary monitor:

- a. Connect the monitor cables to VGA ports.
- b. Enter OS.
- c. Enter "Display Properties".
- d. Press "Identify" and the screen will appear "1&2" to differentiate the primary and the secondary monitor.

Note1: Please check on "I Extend my Windows desktop onto this monitor" to show "1&2". Otherwise, both screen will show "1". Note2: Please uncheck "I Extend my Windows desktop onto this monitor" in order to use the Standard, Clone, Horizontal Span and Vertical Span functions.





StudioFun!

Introduction

StudioFun! is a media-player based on optimized GNU/Linux distribution It plays DVD,

VCD, MP3, Audio CD and various other known file formats. You can take snapshots of video and customize the saved images as screensavers. You can also store the images on USB mass storage devices likeflash disks and USB floppy disks.

Hardware Requirements

The supported hardware list of StudioFun! grows up every day. So please check the hwreq.txt located in the root of StudioFun! Installation CD to get the most updated information.

Installation Procedure

Insert the StudioFun! Installation 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.



Installation

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

On selecting the 'installation' 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!. In case 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 $\label{eq:select}$

- 1. 1024x768 (recommended)
- 2.800x600
- 3. 640x480

Select the desired resolution. The default is 1024x768f or high-end graphics.

Next you will be prompted to choose the DVD area/region selection code. Choose this based on the type of DVDsy ou 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 display ed. 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 abov e error message is popped.

4. No device found! This error message is given if there is no hard disk in the system.

Recovery In case of a MBR corruption, this option should be used. It will automatically probe the hard disk master boot record and find out the installed operating system(s). On success it will re-install the boot loader with correct options in the MBR Any custom boot loader option specified from other GNU/Linux installations will get over written by the newly probed one.

Booting to Studio Fun!

After Installation is over, remove the CD from the CD-ROM and restart the machine. After the machine reboots, you will get the GRUB boot loader menu screen. Select the StudioFun option to boot to the StudioFun! partition.



After complete boot up, you get to the main Desktop screen. The following section is a complete description of the Desktop application.



Desktop

This is the main shell of the StudioFun software. It basically comprises of two categories, one is the main "media control" part and the α her is the "control panel".

Media control

The media control part of the Desktop has the following controls:

1. VCD

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

2. DVD

This control will glow whenever a DVD is detected in a DVD drive. The DVD 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 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 into 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 gbw whenever a File CD (CDs with other media type 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 File CD present in the DVD/CD-ROM drive.

6. EJECT MEDIA

This cortrol when clicked will eject any MP3 or File CDs from any of the DVD/CDROM drives. In case there were no MP3 or File CDs it will eject the default medium, (i.e.), the CD-ROM drive in case if the user has both DVD/CD-ROM drive or else it will eject the default DVD/CD-ROM drive.

7. EXIT

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

Control panel part has five icons, which are shortcuts to other applications present in the StudioFun software. Tool tips are provided on the icons when the mouse is rolled over them.

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.

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:

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, then the media inside the DVD drive will be play ed.

If in case the media in CD-ROM takes a longer time to get recognized than the media inside the DVD drive, the media in the CD-ROM will be played, once if it is recognized.

Other general user scenarios

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

NO DUPLICATE INSTANCE OF ANY APPLICATION WILL BE ALLOWED TO RUN.

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 interpretsmany of the most common multimedia formats available - and some of the uncommon formats, too.

• 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 plugin)
- f. Audio and subtitle channel selection
- g. Closed Caption support
- h. Brightness, contrast, audio volume, hue, saturation adjusting requires hardware/driver support)
- i. Play lists
- j. Image snap shot
- k. Audio resampling
- 1. Software de-interlacing algorithms
- m. Configuration dialog
- n. Aspect ratio changing
- o. Fullscreen 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 Codecs
- i. MPEG 1/2
- j. MPEG 4 (aka OpenDivX)
- k. MSMPEG 4
- a. Chapter 5: Software Details 10
 - 1. 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 top lay a VCD disc
- b. Select DVD button top lay 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)

- 1. j. Select hide button to hide the control panel of the player
- m. k. Select menu button to use menu's while playing DVD
- n. l. 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

Error Messages

- The following error message is given if an unknown file format is selected through Xine MRL browser and played.
- ♦ While playing mp3 files, if the user stops playing and tries to select the DVD button, then the following error message is shown

Select Region

Owrview

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

S creensaver

The xscreens aver 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 choosev arious 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 screens aver will blank the screen after the keyboard and mouse have been idle def ault time is 1 minute and user can change the settings.

• Cycle After Option: When screens aver is running this cycle time defines the time limit for each screens aver.

• Mode Screensaver comes with various modes:

1. Random Screen Saver: When user chooses this option, Screensaver cycles through various graphics demos randomly

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.
 Hy perball
 Hy percube
 Halo
 Strange

• A snapshot of the application is shown below.

<u>E</u> ile <u>H</u> elp
Display Modes
Mode: Random Screen Saver
Use Screen Saver
Blank After 1 ⇒minutes Cycle After 1 ⇒minutes

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

^{2.} Only one Screen Saver: When user chooses this option, screens aver 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.

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

Owrview

File manger is an utility to copy files from deferent devices to hard disk and vice versa. User can copy files from devices such as, floppy, cdrom 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 "/studiof 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 wantto 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 "/studiof 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 harddisk.
- ♦ Exit - Click to quit the application.

Select device	Ларру/ Ларру/	1	1
List of directories			
Flo	ppyFX		Hard Disk
		Add >>>	gpi test2 cal-part.pdf xre3 xxm
	7	Remove	prot-calc.tar.gz
		Exit	

Trouble Shooting

PROBABLE	SOLUTION
No power to the system at all Power light don't illuminate, fan inside power supply does not tum on. Indicator light on keyboard does not tum on	* Make sure power cable issecurely plugged in * Replace cable * Contact techrical support
PROBABLE	
System inoperative. Keyboard lights are on, power indicator Ights are lit, hard drive is spinning.	 Using even pressure on both ends of the DIMM, press down firmly until the module snaps into place.
System does not boot from hard disk drive, can be booted from CD-ROM drive.	* Check cable running from disk to diskcontroller board. Make sure both ends are securely plugged in; check the drive type in the standard CMOS setup.
	important. All hard disks are capable o breaking down at any time
PROBABLE	
System only boots from CD-ROM. Hard disk can be read and applications can be used but booting from hard disk is impossible.	* Back up data and applications files. Reforma the hard drive. Re-install applications and data using backup disks.
Screen message says "Invalid Configuration" or "CMOS Failure."	* Review system's equipment . Make sure correct information is in setup.
PROBABLE	SOLUTION
Cannot boot system after installing second hard drive.	 * Set mæster/slave jumperscorrectly. * Run SETUP program and select correct drive types. Call drive manufacturers for compatibilitywith other drives

=

Problemlösung

MÖGLICHE UR SACHE	LÖSUNG	
Das System hat keine Spannungsversorgung. Die Stromanzeige leuchtet nicht, der Lüfter im Inneren der Stromversorgung wird nicht eingeschaltet. Tastaturleuchten sind nichtan.	 Versichern Siesich, dass das Stromkabel richtig angebracht ist Eisetzen Sie das Stromkabel Wenden Sie sich an Ibre Kundendiensistelle 	
MÖGLICHEURSACHE	LÖSUNG	
Das System funktioniert nicht. Die Tastaturleuchten sind an, die Stromanzeige leuchtet, die Festplatte dreht sich.	* Drücken Sie das DIMM-Modul bei gleichem Druck an beide Seiten, bs es einrastet.	
MÖGLICHE UR SACHE	LÖSUNG	
Das System wird von der Festplatte nicht hochgefahren, vom CD-ROM-Treiber aberja.	* Überprüfen Sie das Kabel zwischen Festplatte und Festplatten-Controller. Versichem Sie sich, dass beide Enden richtig angebrach sind; überprüfen Sie den Laufwerktyp in der standardmäßigen CMOS-Einrichtung.	
	* Ein Backup der Festplatte ist sehr wichtig. Alle Festplatten können irgendwann beschädig werden.	
	LÖSUNC	
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	* Machen Sie eine Sicherungskopie von aller Daten und Anwendungsdateien. Formatierer Sie die Festplatte und reinstallieren Sie die Anwendungen und Daten mit Hilfe von Backup-Disks	
MÖGLICHE URSACHE	LÖSUNG	
Auf dem Bildschirm erscheint die Meldung "Ungültige Konfiguration" oder "CMOS Fehler."	* Überprüfen Sie die Systemkomponenten und versichern Sie sich, das diese richtig eingerichtet sind.	
MOGLICHEURSACHE	LOSUNG	
Das System kann nach der Installation einer zweiten Festplatte nicht hochgefahren werden.	* Setzen Sie die Master/Slave-Jumper richtig ein. * Führen Sie das SET UP-Programm aus und wählen Sie die richtigen Laufwerktypen. Wenden Sie sich an den Laufwerkhersteller. um die Kompatibilität mit anderen Laufwerken	

05/21/2003

Ξ

BIOS Setup	1
1 Main Menu	3
2 Standard CMOS Features	6
3 Advanced BIOS Features	9
4 Advanced Chipset Features	
5 Integrated Peripherals	16
6 Power Management Setup	20
7 PnP/PCI Configurations	23
8 PC Health Status	25
9 Frequency Control	

i

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 BIOSTM installed in your computer system's ROM (Read Only Memory) is a custom version of an industry standard BIOS. This means that it supports AMD[®] 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 BIOSTM, 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.

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 $\langle Enter \rangle$ to select, use the $\langle PgUp \rangle$ and $\langle PgDn \rangle$ keys to change entries, press $\langle F1 \rangle$ for help and press $\langle Esc \rangle$ 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 (menubar)
Move Enter	Move to the item you desired
PgUp key	Increase the numeric value or make changes
PgDnkey	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

1 Main Menu

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

!! WARNING !!

The information about BIOS defaults on manual (Figure 1,2,3,4,5,6,7,8,9) is just for reference, please refer to the BIOS installed on board, for update information.

■ Figure 1. Main Menu

Phoenix - AwardBIOS CMOS Setup Utility		
► Standard CMOS Features	► Frequency/Voltage Control	
► Advanced BIOS Features	Load Optimized Defaults	
► Advanced Chipset Features	Set Supervisor Password	
 Integrated Peripherals 	Set User Password	
► Power Management Setup	Save & Exit Setup	
► PnP/PCI Configurations	Exit Without Saving	
► PC Health Status	Upgrade BIOS	
Esc : Quit F10 : Save & Exit Setup	↑↓ → ← : Select Item	
Time, Date, Hard Disk Type		

Standard CMOS Features

This submenu contains industry standard configurable options.

Advanced BIOS Features

This submenu allows you to configure enhanced features of the BIOS. Advanced Chipset Features

This submenu allows you to configure special chipset features.

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.



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.



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.



Save & Exit Setup

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



Exit Without Saving

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



Upgrade BIOS

This submenu allows you to upgrade bios.



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

Phoenix - AwardBIOS CMOS Setup Utility Standard CMOS Features			
Date (mm:dd:yy) Time (bb:mm:se)	Wed, Mar 19 2003	Item Help	
TDE Drimaru Mactor	10.47.0	Menu Level 🕨	
 IDE Frimary Master IDE Primary Slave IDE Secondary Master IDE Secondary Slave 		Change the day, month, year and century	
Drive A Drive B	[1.44M, 3.5 in.] [None]		
Video Halt On	[EGA/VGA] [All , But Keyboard]		
Base Memory Extended Memory Total Memory	640K 65472K 1024K		
	/-/PU/PD:Value F10:Save	ESC:Exit F1:General Help	

Main Menu Selections

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

ltem	Options	Description
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</enter>
IDE Primary Slave	Options are in its sub menu.	Press <enter> to enter the sub menu of detailed options.</enter>
IDE Secondary Master	Options are in its sub menu.	Press <enter> to enter the sub menu of detailed options.</enter>
IDE Secondary Slave	Options are in its sub menu.	Press <enter> to enter the sub menu of detailed options.</enter>
Drive A	360K, 5.25 in	Select the type of floppy
	1.2M, 5.25 in	disk drive installed in your
Drive B	720K, 3.5 in	System.
	1.44M, 3.5 in	
	2.88M, 3.5 in	
	None	
Video	EGA/VGA	Select the default video
	CGA 40	device.
	CGA 80	
	MONO	

ltem	Options	Description
Halt On	All Errors	Select the situation in which
	No Errors	you want the BIOS to stop
	All, but Keyboard	the POST process and
	All, but Diskette	notify you.
	All, but Disk/ Key	
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.

3 Advanced BIOS Features

■ Figure 3. Advanced BIOS Setup

Phoenix - AwardBIOS CMOS Setup Utility Advanced BIOS Features			
▶ Boot Seq & Floppy Setup [Press Enter]	Item Help		
 Cache Setup [Press Enter] Virus Warning [Disabled] Quick Power On Self Test [Enabled] Boot Up NumLock Status [On] Gate A20 Option [Fast] Typematic Rate Setting [Disabled] X Typematic Delay (Msec) 250 Security Option [Setup] APIC Mode [Enabled] MPS Version Control For OS[1.4] OS Select For DRAM > 64MB [Non-0S2] Video BIOS Shadow [Enabled] 	Menu Level ►		
↑↓++:Move Enter:Select +/-/PU/PD:Value F10:Save E F5:Previous Values F7: Optimi	SC:Exit F1:General Help zed Defaults		

Boot Seq & Floppy Setup

First/ Second/ Third/ Boot Other Device

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

The Choices: Floppy, LS120, HDD-0, SCSI, CDROM, HDD-1, HDD-2, HDD-3, ZIP 100, USB-FDD, USB-ZIP, USB-CDROM, USB-HDD, LAN, HPT370, Disabled, Enabled.

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

Cache Setup

CPU Internal Cache

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

The Choices:

Enabled (default) Enable cache. Disabled

Disable cache.

External Cache

This option you to enable or disable "Level 2" secondary cache on the CPU, which may improve performance. The Choices: Enabled (default) Enable cache. Disabled Disable cache.

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

Gate A20 Option

Select if chipset or keyboard controller should control Gate A20. A pin in the keyboard controller Normal controls Gate A20. Fast (default) 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. **The Choices: 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.

SystemA password is required for the system to boot and is
also required to access the Setup Utility.Setup (default)A password is required to access the Setup Utility
only.

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

APIC Mode

By selecting Enabled enables ACPI device mode reporting from the BIOS to the operating system.

The Choices: Enabled (default), Disabled.

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.

Video BIOS Shadow

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

> Enabled (default) Disabled

Optional ROM is enabled. Optional ROM is disabled.

Summary Screen Show

This item allows you to enable/ disable display the Summary Screen Show. The Choices: Disabled (default), Enabled.

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

Phoenix - AwardBIOS CMOS Setup Utility Advanced Chipset Features			
System Performance CPU Ratio FSB Frequency CPU Interface Memory Frequency Resulting Frequency Memory Timings × T(RAS) × T(RCD) × T(RP) × CAS Latency FSB Spread Spectrum AGP Spread Spectrum Frame Buffer Size AGP Aperture Size (MB) AGP Frequency AGP 8X Support AGP Fast Write Capability CPU Thermal-Throttling	[Optimal] [Default] [100 MHz] [Optimal] [By SPD] [Optimal] 7 1 2.5 0.50 % 0.50 % [32M] [64M] [Auto] [Enabled] [Enabled] [50.0 %]		Item Help Menu Level ► [Optimal] - Use the most stable settings. [Expert] - Allows full customization of performance options. Recommended for experts only.
↑↓++:Move Enter:Select +/-/	/PU/PD:Value	F10:Save E	ESC:Exit F1:General Help

System Performance

Optimal (Default)

This item allows you to use the most stable settings.

Expert

This item allows full customization of performance

CPU Clock Ratio

This item allows you to select the CPU Ratio. **The Choices: Default** (Default), 11, 11.5, 12, 12.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10

FSB Frequency

This item allows you to select the FSB Frequency. The Choices: 100MHz (Default), 133MHz, 166MHz.



CPU Interface

Optimal (Default)

This item allows you to use the most stable CPU/FSB parameters.

Aggressive

This item allows you to use overclocked CPU/ FSB parameters.

Memory Frequency

Select "Auto" for best performance.

The Choices: By SPD (Default), 50%, 60%, 66%, 75%, 80%, 83%, 100%, 120%, 125%, 133%, 150%, 166%, 200%, Auto.

Memory Timings

Optimal (Default) This item allows you to use the most stable settings.

Expert

This item allows you to enter timings manually.

T(RAS)

This item allows you to set System Performance to "Optimal" to use the delay recommended by the DIMM's manufacturer.

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

<u>T(RCD)</u>

This item allows you to set System Performance to "Optimal" to use the delay recommended by the DIMM's manufacturer. **The Choices: 1** (Default), 2, 3, 4, 5, 6, 7.

<u>T (RP)</u>

This item allows you to set System Performance to "Optimal" to use the delay recommended by the DIMM's manufacturer. **The Choices: 1** (Default), 2, 3, 4, 5, 6, 7.

CAS Latency

This item allows you to set System Performance to "Optimal" to use the delay recommended by the DIMM's manufacturer. The Choices: 2.5 (Default), 2.0, 3.0.

FSB Spread Spectrum

This item allows you to select the FSB Spread Spectrum. The Choices: 0.50% (Default).

AGP Spread Spectrum

This item allows you to select the AGP Spread Spectrum. The Choices: Disabled (Default).

Frame Buffer Size

This item allows you to select the Frame Buffer Size. **The Choices: 32M** (Default), 8M, 16M, 64M, 128M, Disabled.

AGP Aperture Size (MB)

Select the size of the Accelerated Graphics Port (AGP) aperture. The apertures 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: 64** (default), 4, 8, 16, 32, 128, 256.

AGP Frequency

This item allows you to select the AGP Frequency.

The Choices: Auto (Default), 50MHz, 66MHz, 67MHz, 68MHz, 69MHz, 70MHz, 71MHz, 72MHz, 73MHz, 74MHz, 75MHz, 76MHz, 77MHz, 78MHz, 79MHz, 80MHz, 81MHz, 82MHz, 83MHz, 84MHz, 85MHz, 86MHz, 87MHz, 90MHz, 93MHz, 95MHz, 97MHz, 100MHz.

AGP 8X Support

This item allows you to enable or disable AGP 8X Support. The Choices: Enabled (Default), Disabled.

AGP Fast Write Capability

This item allows you Enabled or Disabled AGP Fast Write Capability. **The Choices: Enabled** (Default), Disabled.

<u>CPU Thermal Throttling</u>

This item allows you to select the CPU Thermal Throttling. **The Choices: 50%** (Default), Disabled, 87.5%, 75%, 62.5%, 37.5%, 25%, 12.5%.

System BIOS Cacheable

Selecting Enabled allows you caching of the system BIOS ROM at F0000h~FFFFFh, resulting a better system performance. However, if any program writes to this memory area, a system error may result.

The Choices: Enabled, Disabled (default).

Video RAM Cacheable

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

The Choices: Disabled (default), Enabled.

5 Integrated Peripherals

■ Figure 5. Integrated Peripherals

Phoenix - AwardBIOS CMOS Setup Utility Integrated Peripherals		
► IDE Function Setup [Press Enter]	[Press Enter]	Item Help
 ► Unboard Device Init Display First OnChip USB USB Keyboard Support ► Onboard I/O Chip Setup 	[PCC Slot] [V1.1+V2.0] [Disabled] [Press Enter]	Menu Level ►
†↓→+:Move Enter:Select + F5:Previous Val	/-/PU/PD:Value F10:Save ues F7: Optim	ESC:Exit F1:General Help ized Defaults

IDE Function Setup

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.

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 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.

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.

Onboard Device

AC97 Audio

This item allows you to decide to enable/ disable to support AC97 Audio. **The Choices: Auto** (default), Disabled.

AC97 Modem

This item allows you to decide to enable/ disable to support AC97 Modem. The Choices: Auto (default), Disabled.

MAC LAN (nVIDIA)

This item allows you to select MAC LAN. **The Choices: Auto** (Default), Disabled.

Machine MAC (NV) Address

This item allows you to enable or disable Machine MAC Address. **The Choices: Disabled** (Default), Enabled.

MAC (NV) Address Input

Onchip 1394 Chip

This item allows you to set the Onchip 1394 Chip. **The Choices: Auto** (Default), Disabled.

Init Display First

This item allows you to decide to active whether PCI Slot or on-chip VGA first. The Choices: Onboard/AGP, PCI Solt (default).

<u>OnChip USB</u>

This item allows you to set the onchip USB. The Choices: V1.1+V2.0 (default), Disabled, V1.1.

USB Keyboard Support

The default value is Disabled.

Enabled **Disabled** (default) Enable USB Keyboard Support. Disable USB Keyboard Support.

Onboard I/O Chip Setup

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

Onboard Serial Port2

Select an address and corresponding interrupt for the first and second serial ports. **The Choices: Disabled** (default), 3F8/IRQ4, 2F8/IRQ3, 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, ASKIR, IrDA (default).

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. **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.SPP (default)EPPUsing Parallel port as Standard Printer Port.Using Parallel port as Enhanced ParallelPort.ECPUsing Parallel port as Extended Capabilities

ECP+EPP

Using Parallel port as Extended Capabilities Port 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: 10** (default), 5

6 Power Management Setup

The Power Management Setup Menu allows you to configure your system to utilize energy conservation and power up/power down features.

■ Figure 6. Power Management Setup

Phoenix - AwardBIOS CMOS Setup Utility Power Management Setup			
ACPI function	[Enabled]	Item Help	
HCP1 Suspend Type Power Management Video Off Method HDD Power Down HDD Down In Suspend Soft-Off by PBTN WOL(PME#) From Soft-Off WOR(RI#) From Soft-Off S3 Resume by USB (Win98) Power-On by Alarm × Time(dd:hh:mm) of Alarm PWRON After PWR-Fail	IST(POS)] [User Define] [DPMS Support] [Disabled] [Instant-Off] [Disabled] [Disabled] [Disabled] [Disabled] [0: 0 : 0 [Off]	Menu Level ►	
↑↓++:Move Enter:Select +/- E5:Previous Value	/PU/PD:Value F10:Save F7: Optim	ESC:Exit F1:General Help	

ACPI function

This item displays the status of the Advanced Configuration and Power Management (ACPI).

The Choices: Enabled (default), Disabled.

ACPI Suspend Type

The item allows you to select the suspend type under the ACPI operating system.
The Choices: S1 (POS) (default)
S3 (STR)
S1 & S3
POS+STR

Power Management

This category allows you to select the type (or degree) of power saving and is directly related to the following modes:

1.HDD Power Down.

2. Suspend Mode.



There are four options of Power Management, three of which have fixed mode settings 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.

Video Off Method

This option determines the manner in which the monitor is goes blank. V/H SYNC+Blank

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 Support (default)

Initial display power management signaling.

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, 15 Min.

HDD Down In Suspend

This item allows you to enable or disable HDD Down In Suspend. **The Choices: Disabled** (Default), Enabled.

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).

WOL (PME#) From Soft-Off

This item allows you to enable or disable the WOL (PME#) From Soft-Off. **The Choices: Disabled** (Default), Enabled.

WOR (RI#) From Soft-Off

This item allows you to enable or disable the WOR (RI#) From Soft-Off. **The Choices: Disabled** (Default), Enabled.

S3 Resume by USB (Win98)

This item allows you to enable or disable S3 Resume by USB (Win98). **The Choices: Disabled** (Default), Enabled.

Power-On by Alarm

This item allows you to enable or disabled power on by alarm. **The Choices: Disabled** (Default), Enabled.

PWRON After PWR-Fail

This field determines the action the system will automatically take when power is restored to a system that had lost power previously without any subsequent manual intervention. There are 3 sources that provide current to the CMOS area that retains these Power-On instructions; the motherboard battery (3V), the Power Supply (5VSB), and the Power Supply (3.3V). While AC is not supplying power, the motherboard uses the motherboard battery (3V). If AC power is supplied and the Power Supply is not turned on, 5VSB from the Power Supply is used. When the Power Supply is eventually turned on 3.3V from the Power Supply will be used.

There are 3 options: "Former-Sts", "On", "Off".

"Former-Sts"	Means to maintain the last status of the CMOS when AC
	power is lost.
"On"	Means always set CMOS to the "On" status when AC
	power is lost
"Off" (default)	Means always set CMOS to the "Off" status when AC
	power is lost.

For example: If set to "Former-Sts" and AC power is lost when system is live, then after AC power is restored, the system will automatically power on. If AC power is lost when system is not live, system will remain powered off.

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

Phoenix - AwardBIOS CMOS Setup Utility PnP/PCI Configurations		
Reset Configuration Data	[Disabled]	Item Help
Resources Controlled By x IRQ Resources	[Auto(ESCD)] Press Enter	Menu Level ►
PCI/VGA Palette Snoop	[Disabled]	Select Enabled to reset Extended System Configuration Data ESCD) when you exit Setup if you have installed a new add-on and the system reconfiguration has caused such a serious conflict that the OS cannot boot
14++:Move Enter:Select +/- E5:Previous Value	/PU/PD:Value F10:Save E s F7: Ontimi	ESC:Exit F1:General Help

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 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.

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.

Disabled (default)DisEnabledEna

Disables the function. Enables the function.
8 PC Health Status

■ Figure 8. PC Health Status

Phoenix - AwardBIOS CMOS Setup Utility PC Health Status				
Current CPU Temperature	Item Help			
Current SYSEHN Speed Current CPUFAN Speed CPU Vcore 3.3 V +12 V -12 V _ 5 V Show H/W Monitor in POST [Enabled] Chassis Open Warnning [Disabled]	Menu Level ►			
↑↓→+:Move Enter:Select +/-/PU/PD:Value F10:Save E F5:Previous Values F7: Optimi				

Current CPU Temperature

Show you the current CPU temperature.

Current SYSFAN Speed

This field displays the current SYSFAN speed.

Current CPUFAN Speed

This field displays the current CPUFAN speed.

<u>CPU Vcore/ AGP Vcore/ +3.3V/ +12V/ -12V/ -5V</u>

Detect the system's voltage status automatically.

Show H/W Monitor in POST

If you computer contain a monitoring system, it will show PC health status during POST stage. The item offers several delay time to select you want. **The Choices: Enabled** (default), Disabled.

25

Chassis Open Warning

This item allows you to enable or disable Chassis Open Warning beep. **The Choices: Disabled** (Default), Enabled.

26

M7NCG Pro BIOS Setup

9 Frequency Control

■ Figure 9. Frequency Control

Phoenix - AwardBIOS CMOS Setup Utility Frequency/Voltage Control						
CPU Voltage Regulator	[Default]		Item Help			
HGP Voltage DRAM Voltag IGP Voltage	Regulator Regulator Regulator	[1.5 V] [2.5 V] [1.6 V]		Menu Level	•	
t↓++:Move Ent F5:	er:Select +/- Previous Value	/PU/PD:Value s	F10:Save F7: Optim	ESC:Exit F1: ized Defaults	General	Help

CPU Voltage Regulator

This item allows you to select CPU Voltage Regulator. **The Choices: Default** (default), -0.025V, -0.050V, -0.075V, -0.100V, +0.025V, +0.050V, +0.075V.

AGP Voltage Regulator

This item allows you to select AGP Voltage Regulator. **The Choices: 1.5V** (Default), 1.6V, 1.7V, 1.8V.

DRAM Voltage Regulator

This item allows you to select DRAM Voltage Regulator. **The Choices: 2.5V** (Default), 2.6V, 2.7V, 2.8V.

IGP Voltage Regulator

This item allows you to select IGP Voltage Regulator. **The Choices: 1.6V** (Default), 1.7V, 1.8V, 1.9V.

27