N2VIEW (2-User-System Solution) USER'S MANUAL

M/B For Socket-A Athlon/Duron Processor

NO. G03-N2VIEW Rev:4.0

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Trademark:

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Manual Revision Information

Reversion	Revision History	Date
4.0	Fourth Edition	Feb. 2004

Item Checklist

- N2VIEW Motherboard
- Cable for IDE/Floppy
- \square CD for motherboard utilities
- Cable for USB2 Port (Option)
- Y-Cable for 2 Keyboard/ 2 Mouse
- Quick Installation Guide MagicTwin Manual
- N2VIEW User's Manual

AMD Athlon[™] / Duron[™] Processor Family

Cooling Solutions

As processor technology pushes to faster speeds and higher performance, thermal management becomes increasingly crucial when building computer systems. Maintaining the proper thermal environment is key to reliable, long-term system operation. The overall goal in providing the proper thermal environment is keeping the processor below its specified maximum case temperature. Heatsinks induce improved processor heat dissipation through increased surface area and concentrated airflow from attached fans. In addition, interface materials allow effective transfers of heat from the processor to the heatsink. For optimum heat transfer, AMD recommends the use of thermal grease and mounting clips to attach the heatsink to the processor.

When selecting a thermal solution for your system, please refer to the website below for collection of heatsinks evaluated and recommended by AMD for use with AMD processors. Note, those heatsinks are recommended for maintaining the specified Maximum T case requirement. In addition, this collection is not intended to be a comprehensive listing of all heatsinks that support AMD processors.

For vendor list of heatsink and fan, please visit :

http://www1.amd.com/products/duron/thermals http://www1.amd.com/products/athlon/thermals

Chapter 1 Introduction of N2VIEW Motherboard 1-1 The World First 2-User Motherboard

Introduction

The N2VIEW MagicTwin is the world's first multi-user enabled motherboard solution available in the market. The special designed 2-user-system motherboard allows two users to share the computing power of a single PC system. With integrated circuitry onboard, the N2VIEW MagicTwin[®] motherboard comes with innovative software, the MagicTwin, allowing 2 users to be connected to it and runs up to two (2) stations directly from it. The unique and copyright-protected technology, allows each of the 2 users to feel like having himself his own Windows-XP computer. Each user needs to have himself his own keyboard, mouse, sound device, and monitor. All remaining PC hardware will be shared, even the IP.

Both users can operate on their own station concurrently, similar to the operation on standard PC, the Windows applications to create and edit documents, to do web surfing, to access email, just to name a few. There is no obvious delay because of the Time-slicing/Multiplexing technology built-in. Each user gets an exact and extremely short defined moment to access to the PC system, devices, applications and Windows itself. Resources are only claimed for nanoseconds at a time. Both users get from Windows and the PC, what they really need when they need it! The MagicTwin solution turns the single PC into a cost-effective multi-user system.

The setup is intuitive and easy. In only a few minutes, users can install and start using their new workstation. No network administrator is needed as everything to network the workstations together is done automatically with the MagicTwin software. To configure 2 users system you will need:

- ✓ One Motherboard with onboard circuitry support for MagicTwin
- ✓ One PS/2 Keyboard Y-cable for two Keyboards connection (cable or wireless)
- ✓ One PS/2 Mouse Y-cable for two Mice connection (cable or wireless)
- ✓ Two Standard Monitors (CRT, LCD)
- ✓ Optional: USB-Multimedia Sound Device or any USB-Speaker
- ✓ Installation CD (driver, installation program, tools and manual)
- ✓ 1.2GHz or higher processor
- ✓ Minimum of 256MB RAM (128MB per workstation/user)

1-2 Feature of motherboard

The N2VIEW motherboard is design for use AMD Athlon/Duron/Athlon XP 200MHz/ 266MHz/333MHz/400MHz (Double Data Rate) Front Side Bus Frequency CPU, which utilize the Socket-A design.

N2VIEW motherboard use the newest nVIDIA nForce2 IGP north bridge chipset, integrated GeForce4 MX series Graphics Processing Unit. Support DDR 266/333 with internal graphic core. N2VIEW whose 200MHz/266MHz/333MHz/400MHz (Double Data Rate) Front Side Bus frequency delivers a clear upgrade path to the future generation of 266MHz/333MHz/400MHz processors and memory interface DDR266/DDR33. The motherboard provided three 184-pin DDR DIMMs support PC2700/PC2100/PC1600 DDR SDRAMs maximum size up to 3GB. Supports both 64-bit and 128-bit (Dual Channel) DDR SDRAM. For those wanting even greater graphic performance, an AGP 4X/8X slot is included on the board. Compliant with AGP 3.0 8x interface at 533MHz.

These motherboards use nVIDIA nForce2 MCP2 south bridge offers ULTRA ATA 66/100/**133** to provide speedier HDD throughout that boosts overall system performance.

The motherboard including LAN MAC Controller chip support 10/100 Mb/sec Base transfer rate for network. With USB control as well as capability of expanding to 5 USB function ports support USB2.0/USB1.1 Devices, meet future USB demand.

A special design in hardware for protecting Athlon XP CPU from burned, the system will auto shutdown power supply when CPU is overheat, or the CPU FAN is stop. The motherboard has built-in hardware monitor function. This will monitor and protect your computer.

In we design in CPU Vcore Voltage, DDR memory 2.5V Voltage, AGP 1.5V Voltage those can minor adjustable in BIOS setup. This design can let users approach over clock demand and also can make system more stable. The motherboard provides special function in BIOS Setup to setting CPU Host clock let users to approach over clocking, and special design in hardware to protect BIOS from virus crash BIOS data.

N2VIEW provides high performance & meets future specification demand. It is really wise choice for your computer.

1-3 Specification

Spec Description		
Design	* ATX form factor 4 layers PCB size: 30.5x21.0cm	
Chipset	* nVIDIA nForce2 Integrated Graphics Processor (IGP) north	
	bridge	
	 NVIDIA nForce2 Media and Communications Processor 	
	(MCP2) south bridge	
CPU Socket	* Support AMD Athlon 1.1GHz~1.4GHz processor	
	 * Support AMD Duron 900MHz~1.3GHz processor 	
	* Support AMD Athlon XP1500+~XP3200+ processor	
	* Support 200MHz/266MHz/333MHz/400MHz (Double Data Rate)	
	Front Side Bus frequency processors	
	* Reserves support for future AMD Athlon XP processors	
Memory Socket	* 184-pin DDR module socket x3	
(Dual Channel)	* Support DDR266/DDR333 DDR SDRAM	
	Support both 64-bit and 128-bit (Dual Channel) DDR SDRAM	
	Expandable to 3.0GB	
Expansion Slot &	AGP slot x1 support AGP 3.0 & 4X/8X mode	
Headers	32-bit PCI slot x5	
Integrate IDE	* Two PCI IDE controllers support PCI Bus Mastering, ATA	
	PIO/DMA and the ULTRA DMA 33/66/100/133 functions that	
	deliver the data transfer rate up to 133 MB/s	
6 channel Audio	* Realtek ALC 6-channel AC97' Codec integrated support	
	Front/Rear/Center-Base 6 channel Speaker	
	* Audio driver and utility included	
BIOS	Award 2MBit Flash ROM	
On board LAN	* nVIDIA LAN MAC controller chip including	
	 Support 10/100 Mb/sec data transfer rate 	
Multi I/O	* PS/2 keyboard and PS/2 mouse connectors, Support	
	Keyboard/Mouse Y-cable for 2-user-system solution	
	* Floppy disk drive connector x1	
	* Parallel port x1, Serial port x2	
	* USB2.0 connector x4, headers x1 (connecting cable option)	
	* Audio connector (Line-in, Line-out, MIC & Game Port headers)	

1-4 Performance List

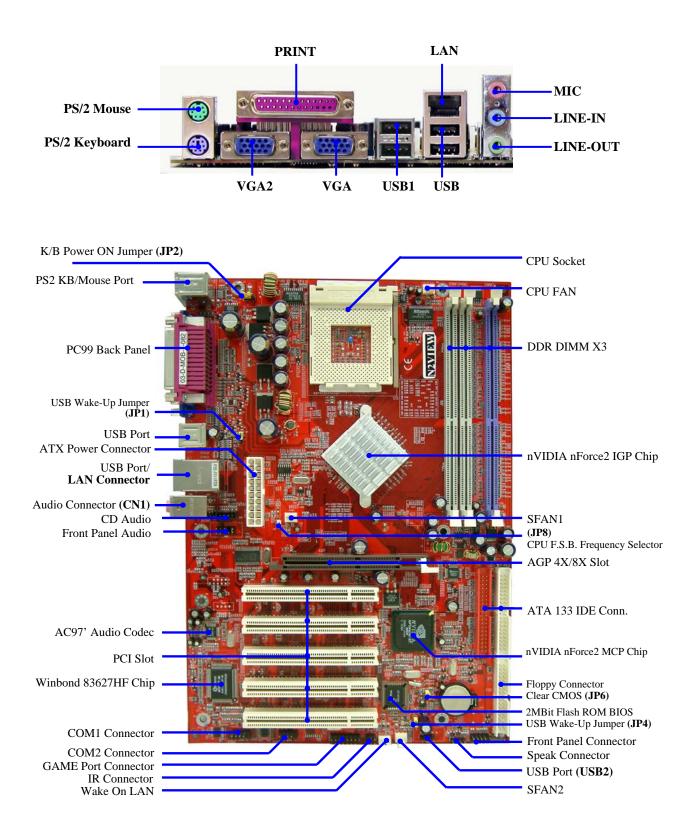
The following performance data list is the testing result of some popular benchmark testing programs. These data are just referred by users, and there is no responsibility for different testing data values gotten by users (the different Hardware & Software configuration will result in different benchmark testing results.)

Performance Test Report

CPU:	AMD Athlon XP 3000+ (FSB 166MHZ)
DRAM:	512MB DDR400 X1 (Winbond DDR W942508BH-5)
	256MB DDR400 X1 (Winbond DDR W942508BH-5)
VGA Expansion Card:	ATI 9700 PRO (1024x768x32bit color)
Hard Disk Driver:	IBM IC35L040AVVN07-0 (ATA-100 7200RPM)
BIOS:	Award Optimal default
OS:	Win XP Professional

		166/166	166/166 Dual Channel
3D Mark 2001SE		2934	4390
3D Mark 2003		157	218
3D Winbench 2000 (32/32bit)		80.6	123
PC Mark 2002			
CPU/Memory/HDD		6269 / 4276 / 868	6299 / 4663 / 885
Content Creation Winstone 20	02	41.7	43.9
Content Creation Winstone 20	03	37.1	37.8
Business Winstone 2002		34.2	34.8
Winbench 99 V1.2 :			
Business Disk Winmark99		9440	9510
Hi-end Disk Winmark99		31400	32000
Business Graphic Winmark		625	827
Hi-end Graphic Winmark		1790	1880
SYS Mark 2001/2002 : SISMa	rk 2001/2	2002 Rating (Interne	t Content Creation /
Office Productivity)			
SISMark 2001		240 (239 / 241)	246 (246 / 247)
SISMark 2002		241 (303 / 191)	248 (321 / 191)
SISOFT Sandra 2003 :			
Dhrystone ALU	MIPS	7829	7892
Whetstone FPU M	FLOPS	3130	3130
RAM Int Buffered iSSE2	MB/S	2251	2181
RAM Float Buffered iSSE2	MB/S	1943	2112
Integer SSE2	IT/S	11539	11536
Floating-Point SSE2	IT/S	12186	12202
QUAKE3 DEMO1	FPS	130.0	188.9
DEMO2	FPS	130.7	189.9
Return to Castle Wolfenstein	FPS	82.3	115.7
WCPUID System / CPU Clock		167.04 / 2471.57	167.05 / 2171.59

1-5 Layout Diagram & Jumper Setting



Jumpers

Jumper	Name	Description	Page
JP2	Keyboard Power On Enabled/Disabled	3-pin Block	P.7
JP1, JP4	USB Wake-Up Enabled/Disabled	3-pin Block	P.7
JP8	CPU Front Side Bus Frequency	2-pin Block	P.7
JP6	CMOS RAM Clear jumper	3-pin Block	P.8

Connectors

Connector	Name	Description	Page
PWR	ATX Power Connector	20-pin Block	P.13
КҮВ	PS/2 Mouse & PS/2 Keyboard Connector	6-pin Female	P.13
USB1	USB Port Connector	2 x 4-pin Connector	P.13
UL1	USB/LAN Port Connector	2 x 4-pin/RJ45 Connector	P.13
LPT	Parallel Port Connector	25-pin Female	P.13
CN1	Audio Connector	3 phone jack Connector	P.13
(Line-OUT/Line-IN/MIC)			
VGA/VGA2	VGA Port Connector	D-Sub 15-pin Connector	P.13
FDD	Floppy Driver Connector	34-pin Block	P.14
IDE1/IDE2	Primary/Secondary IDE Connector	40-pin Block	P.14

<u>Headers</u>

Header	Name	Description	Page
COM1/COM2	Serial Port COM1/COM2	9-pin Block	P.15
	Header		
AUDIO	Line-Out, MIC Header	9-pin Block	P.15
GAME	Game Port Header	15-pin Block	P.15
USB2	USB Port Headers	4-pin Block	P.15
HD LED	IDE activity LED	2-pin Block	P.16
RESET	Reset switch lead	2-pin Block	P.16
SPEAK	Speaker connector	4-pin Block	P.16
PWR LED	Power LED	2-pin Block	P.16
PWR BTN	Power switch	2-pin Block	P.16
WOL	Wake On-LAN Headers	3-pin Block	P.16
SFAN1, SFAN2, CPUFAN	FAN Headers	3-pin Block	P.17
IR	IR infrared module Headers	5-pin Block	P.17
CDIN	CD Audio-In Headers	4-pin Block	P.17

Expansion Sockets

Socket/Slot	Name	Description	Page
ZIF Socket 462	CPU Socket	462-pin PPGA CPU Socket	P.9
DIMM1, DIMM2,	DDR SDRAM Module	184-pin DDR SDRAM Module	P.10
DIMM3	Socket	Expansion Socket	
PCI1, PCI2, PCI3,	PCI Slot	32-bit PCI Local Bus Expansion slots	P.11
PCI4, PCI5			
AGP	AGP 4X/8X Mode Slot	AGP Expansion Slot	P.12

Chapter 2

Hardware installation

2-1 Hardware installation Steps

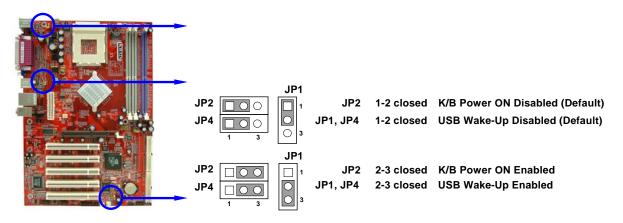
Before using your computer, you had better complete the following steps:

- 1. Check motherboard setting
- 2. Install CPU
- 3. Install Memory
- 4. Install Expansion cards
- 5. Connect Ribbon cables, Panel wires, and power supply
- 6. Setup BIOS
- 7. Install software driver & utility

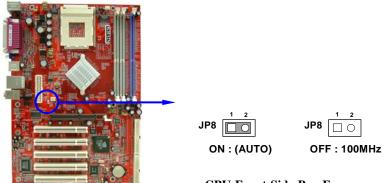
2-2 Checking Motherboard's Jumper Setting

(1) Keyboard Power On function Enabled/Disabled: JP2 USB Wake-Up function Enabled/Disabled :JP1, JP4

When setting Enabled you can using keyboard by key in password or use USB device to power on system.



(2) CPU Front Side Bus Frequency Setting (2-pin) : JP8



- Note: CPU Front Side Bus Frequency also can change setting in BIOS SETUP, please refer page 32 Miscellaneous Control in Host Clock at Next.
- Note: When overclocking cause system can not boot up, users have to keeping press the "INS" key and push the power on button to switch on the system until the screen have display to recovery the standard Default. Otherwise the CMOS will keep the faulty data and M/B will not function.
- (3) CMOS RAM Clear (3-pin) : JP6 A battery must be used to retain the motherboard configuration in CMOS RAM short 1-2 pins of JP6 to store the CMOS data.

To clear the CMOS, follow the procedure below:

- 1. Turn off the system and unplug the AC power
- 2. Remove ATX power cable from ATX power connector
- 3. Locate JP6 and short pins 2-3 for a few seconds
- 4. Return JP6 to its normal setting by shorting pins 1-2
- 5. Connect ATX power cable back to ATX power connector

Note: When should clear CMOS

- 1. Troubleshooting
- 2. Forget password
- 3. After over clocking system boot fail



JP6			
1-2 closed	Normal (Default)	2-3 closed	Clear CMOS
-	CMOS RAM	Clear Setting	

2-3 Install CPU

2-3-1 Glossary

Chipset (or core logic) - two or more integrated circuits which control the interfaces between the system processor, RAM, I/O devises, and adapter cards.

Processor slot/socket - the slot or socket used to mount the system processor on the motherboard.

Slot (AGP, PCI, ISA, RAM) - the slots used to mount adapter cards and system RAM.

AGP - Accelerated Graphics Port - a high speed interface for video cards; runs at 1X (66MHz), 2X (133MHz), or 4X (266MHz).

PCI - **P**eripheral Component Interconnect - a high speed interface for video cards, sound cards, network interface cards, and modems; runs at 33MHz.

ISA - Industry Standard Architecture - a relatively low speed interface primarily used for sound cards and modems; runs at approx. 8MHz.

Serial Port - a low speed interface typically used for mouse and external modems.

Parallel Port - a low speed interface typically used for printers.

PS/2 - a low speed interface used for mouse and keyboards.

USB - Universal Serial Bus - a medium speed interface typically used for mouse, keyboards, scanners, and some digital cameras.

Sound (interface) - the interface between the sound card or integrated sound connectors and speakers, MIC, game controllers, and MIDI sound devices.

LAN (interface) - Local Area Network - the interface to your local area network.

BIOS (Basic Input/Output System) - the program logic used to boot up a computer and establish the relationship between the various components.

Driver - software, which defines the characteristics of a device for use by another device or other software.

Processor - the "central processing unit" (CPU); the principal integrated circuit used for doing the "computing" in "personal computer"

Front Side Bus Frequency - the working frequency of the motherboard, which is generated by the clock generator for CPU, DRAM and PCI BUS.

CPU L2 Cache - the flash memory inside the CPU, normally Athlon CPU has 256K or above, while Duron will have 64K.

2-3-2 About AMD Athlon & Duron 462-pin CPU

This motherboard supports Socket-A (Socket-462) AMD Athlon/Duron processors.

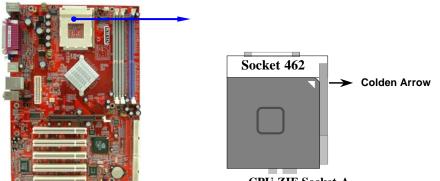
This motherboard Provides a ZIF Socket-A. The CPU that comes with the motherboard should have a cooling FAN attached to prevent overheating. If this is not the case, then purchase a correct cooling FAN before you turn on your system.

WARNING!	Be sure that there is sufficient air circulation across the processor's heatsink and CPU cooling FAN is working correctly, otherwise it may cause the processor and motherboard overheat and damage, you may install an auxiliary cooling FAN, if necessary.
WARNING!	Due to this motherboard provides new function of protecting CPU; you must connect the CPU FAN connector on CPUFAN location in order to obtain this feature. Without connection on CPUFAN (or you have connect CPU FAN on SFAN1), the system will shut down immediately to protect both your CPU and motherboard.

Over heat Protect: Only for Athlon XP serial CPU, when the CPU overheat, system will auto shut down power supply. You can hear a continue beep sound, the power button will

be locked up. Users must turn off and turn on the AC power to reset the system otherwise the power button will no function, the other way is keeping press the push button few seconds till the beep sound stop, then release the power button and press the power button again to turn on the power supply.

To install a CPU, first turn off your system and remove its cover. Locate the ZIF socket and open it by first pulling the level sideways away from the socket then upward to a 90-degree angle. Insert the CPU with the correct orientation as shown below. The notched corner should point toward the end of the level. Because the CPU has a corner pin for two of the four corners, the CPU will only fit in the orientation as shown.



CPU ZIF Socket-A

When you put the CPU into the ZIF socket. No force require to insert of the CPU, then press the level to Locate position slightly without any extra force.

2-4 Install Memory

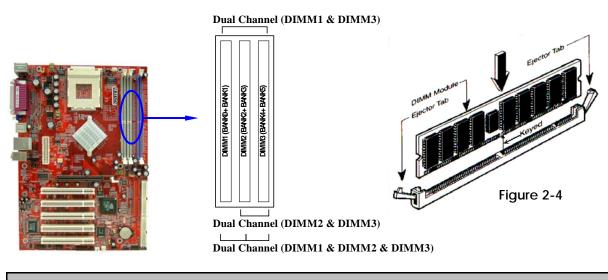
This motherboard provides three 184-pin DUAL INLINE MEMORY MODULES (DIMM) sites for memory expansion available from minimum memory size of 64MB to maximum memory size of 3.0GB DDR SDRAM. For Support 128-bit data transfer function (Dual Channel) must plug both DIMM1 & DIMM3, DIMM2 & DIMM3, or DIMM1 & DIMM2 & DIMM3, or DIMM1

Bank	184-Pin DIMM		Total Memory
Bank 0, 1 (DIMM1)	DDR 266/333/400 DDR SDRAM	X1	64MB~1.0GB
Bank 2, 3 (DIMM2)	DDR 266/333/400 DDR SDRAM	X1	64MB~1.0GB
Bank 4, 5 (DIMM3)	DDR 266/333/400 DDR SDRAM	X1	64MB~1.0GB
Total	System Memory (Max. 3.0GB)	3	64MB~3.0GB

Valid Memory Configurations

NOTE! Make sure the total installed memory does not exceeds 3.0GB, otherwise the system may hang during startup.

Generally, installing DDR SDRAM modules to your motherboard is very easy, you can refer to figure 2-4 to see what a 184-Pin DDR 266/333/400 DDR SDRAM module looks like.



NOTE!	When you install DIMM module fully into the DIMM socket the eject tab
	should be locked into the DIMM module very firmly and fit into its
	indention on both sides.
WARNING!	For the DDR SDRAM CLOCK is set at 166MHz, use only DDR333 compliant DDR
	Modules. When this motherboard operate at 133Mhz, most system will not even
	boot if non-compliant modules are used because of the strict timing issues, if your
	DDR Modules are not DDR266-compliant, set the DDR SDRAM clock to 100MHz
	to ensure system stability.

2-5 Expansion Cards

WARNING! Turn off your power when adding or removing expansion cards or other system components. Failure to do so may cause severe damage to both your motherboard and expansion cards.

2-5-1 Procedure For Expansion Card Installation

- 1. Read the documentation for your expansion card and make any necessary hardware or software setting for your expansion card such as jumpers.
- 2. Remove your computer's cover and the bracket plate on the slot you intend to use.
- 3. Align the card's connectors and press firmly.
- 4. Secure the card on the slot with the screen you remove above.
- 5. Replace the computer system's cover.
- 6. Set up the BIOS if necessary.
- 7. Install the necessary software driver for your expansion card.

2-5-2 Assigning IRQs For Expansion Card

Some expansion cards need an IRQ to operate. Generally, an IRQ must exclusively assign to one use. In a standard design, there are 16 IRQs available but most of them are already in use.

Standard Interrupt Assignments

IRQ	Priority	Standard function
0	N/A	System Timer
1	N/A	Keyboard Controller
2	N/A	Programmable Interrupt
3 *	8	Communications Port (COM2)
4 *	9	Communications Port (COM1)
5 *	6	Sound Card (sometimes LPT2)
6 *	11	Floppy Disk Controller
7 *	7	Printer Port (LPT1)
8	N/A	System CMOS/Real Time Clock
9 *	10	ACPI Mode when enabled
10 *	3	IRQ Holder for PCI Steering
11 *	2	IRQ Holder for PCI Steering
12 *	4	PS/2 Compatible Mouse Port
13	N/A	Numeric Data Processor
14 *	5	Primary IDE Channel
15 *	1	Secondary IDE Channel

* These IRQs are usually available for ISA or PCI devices.

2-5-3 Interrupt Request Table For This Motherboard

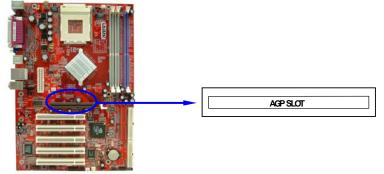
Interrupt request are shared as shown the table below:

	INT A	INT B	INT C	INT D
PCI slot 1	Shared	—	—	—
PCI slot 2	—	Shared	—	
PCI slot 3	—	—	Shared	
PCI slot 4	—	—	—	Shared
PCI slot 5	Shared	—	—	
AGP slot	Shared	—	—	
AC97/MC97			Shared	—
Onboard USB	—	—	—	Shared
Onboard USB 1	—	—	—	Shared
Onboard USB 2				Shared

IMPORTANT!If using PCI cards on shared slots, make sure that the drivers support "Shared
IRQ" or that the cards don't need IRQ assignments. Conflicts will arise between
the two PCI groups that will make the system unstable or cards inoperable.

2-5-4 AGP Slot

This motherboard provides an AGP Slot, support the 4X/8X AGP VGA card.



2-6 Connectors, Headers

2-6-1 Connectors

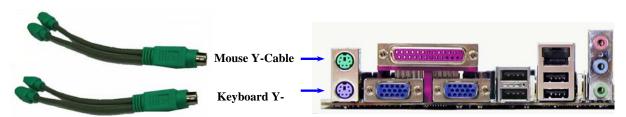
(1) Power Connector (20-pin block) : PWR

ATX Power Supply connector. This is a new defined 20-pins connector that usually comes with ATX case. The ATX Power Supply allows to use soft power on momentary switch that connect from the front panel switch to 2-pins Power On jumper pole on the motherboard. When the power switch on the back of the ATX power supply turned on, the full power will not come into the system board until the front panel switch is momentarily pressed. Press this switch again will turn off the power to the system board.



PIN	ROW2	ROW1
1	3.3V	3.3V
2	-12V	3.3V
3	GND	GND
4	Soft Power On	5V
5	GND	GND
6	GND	5V
7	GND	GND
8	-5V	Power OK
9	+5V	+5V (for Soft Logic)
10	+5V	+12V
	1 2 3 4 5 6 7 8 9	1 3.3V 2 -12V 3 GND 4 Soft Power On 5 GND 6 GND 7 GND 8 -5V 9 +5V

(2) PS/2 Mouse & PS/2 Keyboard Connector: KYB The connectors for PS/2 keyboard and PS/2 Mouse. It can connect with a Y-Cable which can support 2 Keyboard and 2 Mouse for 2 user function.



(3) USB Port connector: USB/USB1

The connectors are 4-pin connector that connect USB devices to the system board.

(4) LAN Port connector: LAN

The connector is standard RJ45 connector for network connection.

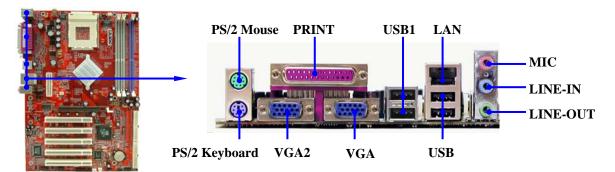
(5) Parallel Port Connector (25-pin female): LPT

Parallel Port connector is a 25-pin D-Subminiature Receptacle connector. The On-board Parallel Port can be disabled through the BIOS SETUP. Please refer to Chapter 3 "INTEGRATED PERIPHERALS SETUP" section for more detail information.

(6) Audio Connector : LINE-OUT/LINE-IN/MIC

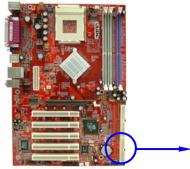
This Connector are 3 phone Jack for LINE-OUT, LINE-IN, MIC

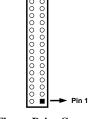
- **LINE_O :** Audio output to speaker(Front Speaker on 6-channel)
- LINE_I: Audio input to sound chip(Rear Speaker on 6-channel)
- MIC: Microphone Connector (Center-Base Speaker on 6-channel)
- VGA/VGA2 Connector (15-pin D-Sub) Connector: VGA/VGA2
 VGA/VGA2 is the 15-pin D-Subminiature female connector for display monitor.
 VGA is for Primary monitor Display, VGA2 is for Secondary monitor Display.



(9) Floppy drive Connector (34-pin block): FDD

This connector supports the provided floppy drive ribbon cable. After connecting the single plug end to motherboard, connect the two plugs at other end to the floppy drives.





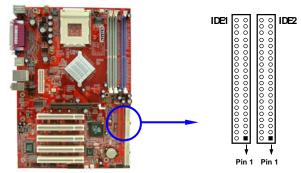
Floppy Drive Connector

(10) Primary IDE Connector (40-pin block): IDE1

This connector supports the provided IDE hard disk ribbon cable. After connecting the single plug end to motherboard, connect the two plugs at other end to your hard disk(s). If you install two hard disks, you must configure the second drive to Slave mode by setting its jumpers accordingly. Please refer to the documentation of your hard disk for the jumper settings.

(11) Secondary IDE Connector (40-pin block): IDE2

This connector connects to the next set of Master and Slave hard disks. Follow the same procedure described for the primary IDE connector. You may also configure two hard disks to be both Masters using one ribbon cable on the primary IDE connector and another ribbon cable on the secondary IDE connector.

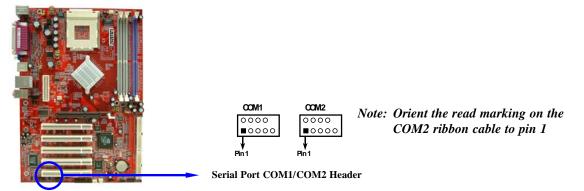


- Two hard disks can be connected to each connector. The first HDD is referred to as the "Master" and the second HDD is referred to as the "Slave".
- For performance issues, we strongly suggest you don't install a CD-ROM or DVD-ROM drive on the same IDE channel as a hard disk. Otherwise, the system performance on this channel may drop.

2-6-2 Headers

(1) Serial Port COM1/COM2 Header (9-pin) : COM1/COM2

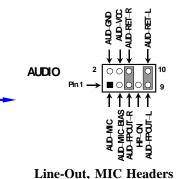
The On-board serial port can be disabled through BIOS SETUP. Please refer to Chapter 3 "INTEGRATED PERIPHERALS SETUP" section for more detail information.



(2) Line-Out, MIC Header (9-pin): AUDIO

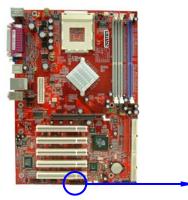
This header connect to Front Panel Line-out, MIC connector with cable.





(3) GAME Port Header (15-pin) : GAME

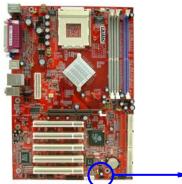
This 15-pin header can through a cable with a 15-pin D-Subminiature Receptacle Connector for joystick/MIDI Device.(Cable option)



Pin 1 ← ■○○○○○○ ○○○○○○○ GAME Port Header

(4) USB Port Header (4-pin) : USB2

The header are used for connecting the additional USB port plug. By attaching an option USB cable, your can be provided with two additional USB plugs affixed to the back panel.



USB2 $Fin1 \rightarrow \blacksquare \circ \circ \circ$ $\uparrow \uparrow \uparrow \uparrow$ gg e e e e e e gg e e e e e e

USB Port Headers

(5) IDE Activity LED: HD LED

This connector connects to the hard disk activity indicator light on the case.

(6) Reset switch lead: RESET

This 2-pin connector connects to the case-mounted reset switch for rebooting your computer without having to turn off your power switch. This is a preferred method of rebooting in order to prolong the lift of the system's power supply. See the figure below.

(7) Speaker connector: SPEAK

This 4-pin connector connects to the case-mounted speaker. See the figure below.

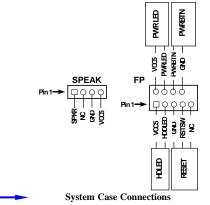
(8) **Power LED: PWR LED**

The Power LED is light on while the system power is on. Connect the Power LED from the system case to this pin.

(9) **Power switch: PWR BTN**

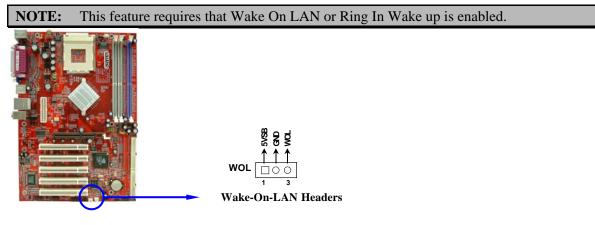
This 2-pin connector connects to the case-mounted power switch to power ON/OFF the system.





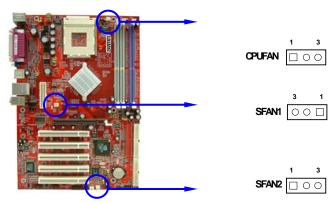
(10) Wake On-LAN Headers (3-pin) : WOL

This connector connects to a LAN card with a WAKE ON-LAN output. This connector power up the system when a wake up signal is received through the LAN card.



(11) FAN Speed Headers (3-pin) : SFAN1, SFAN2, CPUFAN

These connectors support cooling fans of 350mA (4.2 Watts) or less, depending on the fan manufacturer, the wire and plug may be different. The red wire should be positive, while the black should be ground. Connect the fan's plug to the board taking into consideration the polarity of connector.



(12) IR infrared module Headers (5-pin) : IR

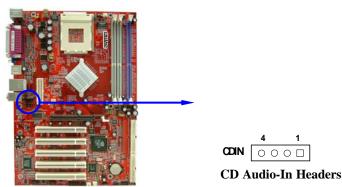
This connector supports the optional wireless transmitting and receiving infrared module. You must configure the setting through the BIOS setup to use the IR function.



IR infrared module Headers

(13) CD Audio-In Headers (4-pin) : CDIN

CDIN is the connector for CD-Audio Input signal. Please connect it to CD-ROM CD-Audio output connector.



2-7 Starting Up Your Computer

- 1. After all connection are made, close your computer case cover.
- 2. Be sure all the switch are off, and check that the power supply input voltage is set to proper position, usually in-put voltage is 220V~240V or 110V~120V depending on your country's voltage used.
- 3. Connect the power supply cord into the power supply located on the back of your system case according to your system user's manual.
- 4. Turn on your peripheral as following order:
 - a. Your monitor.
 - b. Other external peripheral (Printer, Scanner, External Modem etc...)
 - c. Your system power. For ATX power supplies, you need to turn on the power supply and press the ATX power switch on the front side of the case.
- 5. The power LED on the front panel of the system case will light. The LED on the monitor may light up or switch between orange and green after the system is on. If it complies with green standards or if it is has a power standby feature. The system will then run power-on test. While the test are running, the BIOS will alarm beeps or additional message will appear on the screen.

If you do not see any thing within 30 seconds from the time you turn on the power. The system may have failed on power-on test. Recheck your jumper settings and connections or call your retailer for assistance.

Веер	Meaning
One short beep when displaying logo	No error during POST
Long beeps in an endless loop	No DRAM install or detected
One long beep followed by three short beeps	Video card not found or video card memory bad
High frequency beeps when system is working	CPU overheated System running at a lower frequency

- 6. During power-on, press <Delete> key to enter BIOS setup. Follow the instructions in BIOS SETUP.
- 7. **Power off your computer:** You must first exit or shut down your operating system before switch off the power switch. For ATX power supply, you can press ATX power switching after exiting or shutting down your operating system. If you use Windows 9X, click "Start" button, click "Shut down" and then click "Shut down the computer?" The power supply should turn off after windows shut down.

Chapter 3

Introducing BIOS

The BIOS is a program located on a Flash Memory on the motherboard. This program is a bridge between motherboard and operating system. When you start the computer, the BIOS program gain control. The BIOS first operates an auto-diagnostic test called POST (power on self test) for all the necessary hardware, it detects the entire hardware device and configures the parameters of the hardware synchronization. Only when these tasks are completed done it gives up control of the computer to operating system (OS). Since the BIOS is the only channel for hardware and software to communicate, it is the key factor for system stability, and in ensuring that your system performance as its best.

In the BIOS Setup main menu of Figure 3-1, you can see several options. We will explain these options step by step in the following pages of this chapter, but let us first see a short description of the function keys you may use here:

- Press <Esc> to quit the BIOS Setup.
- Press $\uparrow \downarrow \leftarrow \rightarrow$ (up, down, left, right) to choose, in the main menu, the option you want to confirm or to modify.
- Press <F10> when you have completed the setup of BIOS parameters to save these parameters and to exit the BIOS Setup menu.
- Press Page Up/Page Down or +/- keys when you want to modify the BIOS parameters for the active option.

3-1 Entering Setup

Power on the computer and by pressing *<*Del*>* immediately allows you to enter Setup.

If the message disappears before your respond and you still wish to enter Setup, restart the system to try again by turning it OFF then ON or pressing the "RESET" button on the system case. You may also restart by simultaneously pressing <Ctrl>, <Alt> and <Delete> keys. If you do not press the keys at the correct time and the system does not boot, an error message will be displayed and you will again be asked to

Press <F1> to continue, <Ctrl-Alt-Esc> or to enter Setup

3-2 Getting Help

Main Menu

The on-line description of the highlighted setup function is displayed at the bottom of the screen.

Status Page Setup Menu/Option Page Setup Menu

Press F1 to pop up a small help window that describes the appropriate keys to use and the possible selections for the highlighted item. To exit the Help Window, press <Esc>.

3-3 The Main Menu

Once you enter Award[®] BIOS CMOS Setup Utility, the Main Menu (Figure 3-1) will appear on the screen. The Main Menu allows you to select from fourteen setup functions and two exit choices. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.

CMOS S	Setup	Utility	-	Copyright(C)	1984-2003	Award	Software
--------	-------	---------	---	--------------	-----------	-------	----------

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

Figure 3-1

Standard CMOS Features

Use this Menu for basic system configurations.

Advanced BIOS Features

Use this menu to set the Advanced Features available on your system.

Advanced Chipset Features

Use this menu to change the values in the chipset registers and optimize your system's performance.

Integrated Peripherals

Use this menu to specify your settings for integrated peripherals.

Power Management Setup

Use this menu to specify your settings for power management.

PnP/PCI configurations

This entry appears if your system supports PnP/PCI.

PC Health Status

This entry shows your PC health status.

Miscellaneous Control

Use this menu to specify your settings for Miscellaneous control.

Load Optimized Defaults

Use this menu to load the BIOS default values that are factory settings for optimal performances system operations.

Load Standard Defaults

Use this menu to load the BIOS default values for the minimal/stable performance system operation.

Set Supervisor/User Password

Use this menu to set User and Supervisor Passwords.

Save & Exit Setup

Save CMOS value changes to CMOS and exit setup.

Exit Without Saving

Abandon all CMOS value changes and exit setup.

3-4 Standard CMOS Features

The items in Standard CMOS Setup Menu are divided into several 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.

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software

Standard CMOS Features

Date (mm:dd:yy) Time (hh:mm:ss)	Fri, Oct, 24 2003 16 : 45 : 35	Item Help
 > IDE Primary Slave > IDE Secondary Master > IDE Secondary Slave 	Press Enter None Press Enter None	Menu Level > 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 56320K 57344K	
	+/-/PU/PD:Value F10:Save F6:Optimized Defaults	ESC:Exit F1:General Help F7:Standard Defaults

Date

The date format is <day><month><date><year>.

Day Day of the week, from Sun to Sat, determined by BIOS. Read-only.

Month The month from Jan. through Dec.

Date The date from 1 to 31 can be keyed by numeric function keys.

Year The year depends on the year of the BIOS.

Time

The time format is <hour><minute><second>.

Primary Master/Primary Slave Secondary Master/Secondary Slave

Press PgUp/<+> or PgDn/<-> to select Manual, None, Auto type. Note that the specifications of your drive must match with the drive table. The hard disk will not work properly if you enter improper information for this category. If your hard disk drive type is not matched or listed, you can use Manual to define your own drive type manually.

If you select Manual, related information is asked to be entered to the following items. Enter the information directly from the keyboard. This information should be provided in the documentation from your hard disk vendor or the system manufacturer.

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

If the controller of HDD interface is CD-ROM, the selection shall be "None"

Access Mode The settings are Auto Normal, Large, and LBA.

Cylinder	number of cylinders
Head	number of heads
Precomp	write precomp
Landing Zone	landing zone
Sector	number of sectors

3-5 Advanced BIOS Features

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software

Advanced BIOS Features

Anti-Virus Protection CPU L1 Cache	Enabled	Item Help
CPU L2 Cache Quick Power On Self Test SATA & SCSI Boot Order HDD Boot Sprite First Boot Device Second Boot Device Third Boot Device Boot other Device	ATA, SCSI Disabled Floppy HDD-0 CDROM	Menu Level >
	Disabled Enabled On Normal Disabled 6 250 Setup Non-OS2	
↑↓→← Move Enter:Select +/ F5:Previous Values F	-/PU/PD:Value F10:Save E 5:Optimized Defaults	

Anti-Virus Protection

Allows you to choose the VIRUS Warning feature for IDE Hard Disk boot sector protection. If this function is enabled and someone attempt to write data into this area, BIOS will show a warning message on screen and alarm beep.

Disabled (default) No warning message to appear when anything attempts to access the boot sector or hard disk partition table.

Enabled Activates automatically when the system boots up causing a warning message to appear when anything attempts to access the boot sector of hard disk partition table.

CPU L1 Cache

The default value is Enabled.

Enabled (default) Enable cache

Disabled Disable cache

Note: The internal cache is built in the processor.

CPU L2 Cache

Choose Enabled or Disabled. This option enables the Level 2 cache memory.

Quick Power On Self-Test

This category speeds up Power On Self Test (POST) after you power on the computer. If this is set to Enabled. BIOS will shorten or skip some check items during POST.

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

Disabled Normal POST

First/Second/Third/Fourth Boot Device

The BIOS attempts to load the operating system from the devices in the sequence selected in these items. The settings are Floppy, LS/ZIP, HDD-0/HDD-1/HDD-3, SCSI, CDROM, LAD and Disabled.

Swap Floppy Drive

Switches the floppy disk drives between being designated as A and B. Default is Disabled.

Boot Up Floppy Seek

During POST, BIOS will determine if the floppy disk drive installed is 40 or 80 tracks. 360K type is 40 tracks while 760K, 1.2M and 1.44M are all 80 tracks.

Boot Up NumLock Status

The default value is On.

On (default)Keypad is numeric keys.OffKeypad is arrow keys.

Gate A20 Option

NormalThe A20 signal is controlled by keyboard controller or chipset hardware.Fast (default)The A20 signal is controlled by port 92 or chipset specific method.

Typematic Rate Setting

Keystrokes repeat at a rate determined by the keyboard controller. When enabled, the typematic rate and typematic delay can be selected. The settings are: Enabled/Disabled.

Typematic Rate (Chars/Sec)

Sets the number of times a second to repeat a keystroke when you hold the key down. The settings are: 6, 8, 10, 12, 15, 20, 24, and 30.

Typematic Delay (Msec)

Sets the delay time after the key is held down before is begins to repeat the keystroke. The settings are 250, 500, 750, and 1000.

Security Option

This category allows you to limit access to the system and Setup, or just to Setup.

System	The system will not boot and access to Setup will be denied if the
	correct password is not entered at the prompt.
Setup (default)	The system will boot, but access to Setup will be denied if the correct
	password is not entered prompt.

OS Select For DRAM > 64MB

Allows $OS2^{\mathbb{R}}$ to be used with >64MB or DRAM. Settings are Non-OS/2 (default) and OS2. Set to OS/2 if using more than 64MB and running $OS/2^{\mathbb{R}}$.

3-6 Advanced Chipset Features

The Advanced Chipset Features Setup option is used to change the values of the chipset registers. These registers control most of the system options in the computer.

```
CMOS Setup Utility - Copyright(C) 1984-2003 Award Software
Advanced Chipset Features
```

-	Standard Optimal	Item Help
X T(RAS)	6	
X T(RCD)	3	Menu Level >
X T(RP)	3	
X CAS Latency	2.5	
Frame Buffer Size	32M	
AGP Aperture Size	64M	
AGP 8X Support	Enabled	
AGP Fast Write Capability	Enabled	
System BIOS Cacheable	Disabled	
Video RAM Cacheable	Disabled	
\uparrow ↓→← Move Enter:Select +/	-/PU/PD:Value F10:Save E	SC:Exit F1:General Help
F5:Previous Values	F6:Optimized Defaults	F7:Standard Defaults

CAS Latency

When synchronous DRAM is installed, the number of clock cycles of CAS latency depends on the DRAM timing. The settings are: 2T and 2.5T.

System BIOS Cacheable

Selecting Enabled allows caching of the system BIOS ROM at F0000h-FFFFFh, resulting in better system performance. However, if any program writes to this memory area, a system error may result. The settings are: Enabled and Disabled.

Video RAM Cacheable

Select Enabled allows caching of the video BIOS, resulting in better system performance. However, if any program writes to this memory area, a system error may result. The settings are: Enabled and Disabled.

Frame Buffer Size

You can choose the On board VGA memory size share from system memory. The settings are: 8M, 16M, 32M, 64M, Disabled.

3-7 Integrated Peripherals

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Integrated Peripherals

> Onboard IDE Function > Onboard Device Function > Onboard Super IO Function	Press Enter Press Enter Press Enter	Item Help			
Init Display First Power On Function	PCI Slot Button Only	Menu Level >			
X KB Power On Password X Hot Key Power On Power Loss Function	Enter Ctrl+F1 Always off				
<pre>↑↓→← Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Optimized Defaults F7:Standard Defaults</pre>					

Onboard IDE Function

Please refer to section 3-7-1

Onboard Device Function

Please refer to section 3-7-2

Onboard Super IO Function

Please refer to section 3-7-3

Init Display First

This item allows you to decide to activate whether PCI Slot or AGP VGA first. The settings are: PCI Slot, AGP Slot.

Power Loss Function

This item allows the system power ON/OFF automatic when power loss and recovery again, you can choose Auto for recovery pre-state, or always ON/OFF after power recovery.

3-7-1 Onboard IDE Function

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software OnChip IDE Function

OnChip IDE Channel0		Item Help
OnChip IDE Channell	Enabled	_
Primary Master PIO	Auto	
Primary Slave PIO	Auto	Menu Level >>
Secondary Master PIO	Auto	
Secondary Slave PIO	Auto	
Primary Master UDMA	Auto	
Primary Slave UDMA	Auto	
Secondary Master UDMA	Auto	
Secondary Slave UDMA	Auto	
IDE 32-bit Transfer Mode	Enabled	
IDE HDD Block Mode	Enabled	
IDE Prefetch Mode	Enabled	
Delay For HDD (Secs)	0	
$\uparrow \downarrow \rightarrow \leftarrow$ Move Enter:Select +/	-/PII/PD·Value F10·Save F	SC.Exit Fl.General Help
		-
F5:Previous values F	6:Optimized Defaults	r/:Standard Delaults

OnChip IDE Channal0/Channel1

The integrated peripheral controller contains an IDE interface with support for two IDE channels. Select *Enabled* to activate each channel separately. The settings are: Enabled and Disabled.

Primary/Secondary Master/Slave PIO

The four IDE PIO (Programmed Input/Output) fields let you set a PIO mode (0-4) for each of the four IDE devices that the onboard IDE interface supports. Modes 0 through 4 provide successively increased performance. In Auto mode, the system automatically determines the best mode for each device. The settings are: Auto, Mode 0, Mode 1, Mode 2, Mode 3, Mode 4.

Primary/Secondary Master/Slave UDMA

Ultra DMA/33 implementation is possible only if your IDE hard drive supports it and the operating environment includes 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/33 and Ultra DMA/66, select Auto to enable BIOS support. The settings are: Auto, 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 read/writes per sector the drive can support. The settings are: Enabled, Disabled.

3-7-2 Onboard Device Function

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software

OnChip Device Function

AC97 Sound Device Game Port Address	Auto 201	Item Help
Midi Port Address X Midi Port IRQ	Disabled 10 Auto Enabled	Menu Level >>
USB 2.0 Support USB Keyboard Legacy Support	Enabled Disabled	
↑↓→← Move Enter:Select +/+ F5:Previous Values F6	-/PU/PD:Value F10:Save E 5:Optimized Defaults	

Game Port Address/Midi Port Address

This will determine which Address the Game Port/Midi Port will use.

USB Host Controller

Select *Enabled* if your system contains a Universal Serial Bus (USB) controller and you have a USB peripherals. The settings are: Enabled, Disabled.

USB Keyboard Support

Select *Enabled* if your system contains a Universal Serial Bus (USB) controller and you have a USB keyboard. The settings are: Enabled, Disabled.

3-7-3 Onboard Super IO Function

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software Onboard Super IO Function

Onboard FDD Controller Onboard Serial Port 1	Enabled 3F8/IRQ4	Item Help
Onboard Serial Port 2 UART2 Mode X RxD, TxD Active	2F8/IRQ3 Normal Hi, Lo	Menu Level >>
X IR Transmission Delay X IR Duplex Mode X IR Pins Onboard Parallel Port Parallel Mode	Enabled Half IRRX/IRTX 378/IRQ7 SPP	
X EPP Mode Select X ECP Mode Use DMA	EPP1.9 3	
	/-/PU/PD:Value F10:Save F6:Optimized Defaults	ESC:Exit F1:General Help F7:Standard Defaults

Onboard FDD Controller

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

Onboard Serial Port 1/Port 2

Select an address and corresponding interrupt for the first and the second serial ports. The settings are: 3F8/IRQ4, 2E8/IRQ3, 3E8/IRQ4, 2F8/IRQ3, Disabled, Auto.

UART2 Mode

This item allows you to determine which InfraRed(IR) function of the onboard I/O chip, this functions uses.

Onboard Parallel Port

There is a built-in parallel port on the on-board Super I/O chipset that Provides Standard, ECP, and EPP features. It has the following option:

Disabled

(3BCH/IRQ7)/	Line Printer port 0
(278H/IRQ5)/	Line Printer port 2
(378H/IRQ7)	Line Printer port 1

Parallel Port Mode

SPP : Standard Parallel Port

EPP : Enhanced Parallel Port

ECP : Extended Capability Port

SPP/EPP/ECP/ECP+EPP

To operate the onboard parallel port as Standard Parallel Port only, choose "SPP." To operate the onboard parallel port in the EPP modes simultaneously, choose "EPP." By choosing "ECP", the onboard parallel port will operate in ECP mode only. Choosing "ECP+EPP" will allow the onboard parallel port to support both the ECP and EPP modes simultaneously. The ECP mode has to use the DMA channel, so choose the onboard parallel port with the ECP feature. After selecting it, the following message will appear: "ECP Mode Use DMA" at this time, the user can choose between DMA channels 3 to 1. The onboard parallel port is EPP Spec. compliant, so after the user chooses the onboard parallel port with the ECP function, the following message will be displayed on the screen: "EPP Mode Select." At this time either EPP 1.7 spec. or EPP 1.9 spec. can be chosen.

3-8 Power Management Setup

The Power Management Setup allows you to configure your system to most effectively save energy saving while operating in a manner consistent with your own style of computer use.

CMOS Setup Utility - Copyright(C) 1984-2003 Award Softwar	CMOS	tup Utility	· _	Copyright(C)	1984-2003	Award	Software
---	------	-------------	-----	--------------	-----------	-------	----------

ACPI Function	Enabled	Item Help
ACPI Suspend Type	S1(POS)	_
Video off Method	V/H SYNC+Blank	
Power Button Function	Instant-Off	Menu Level >
Wake-Up on PCI PME	Disabled	
Wake-Up on Ring/LAN	Disabled	
USB Resume from S3/S4	Disabled	
Wake Up on RTC Alarm	Disabled	
X Time(dd:hh:mm) of Alarm	0: 0: 0	
↑↓→← Move Enter:Select +/- F5:Previous Values F		

Power Management Setup

ACPI Function

This item allows you to Enabled/Disabled the Advanced Configuration and Power Management (ACPI). The settings are Enabled and Disabled.

Video Off Method

This determines the manner in which the monitor is blanked.

DPMS (default)	Initial display power management signaling.		
Blank Screen	This option only writes blanks to the video buffer.		
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.		

Power Button Function

Pressing the power button for more than 4 seconds forces the system to enter the Soft-Off state. The settings are: Delay 4 Sec, Instant-Off.

Wake Up On Ring/PME/LAN

During Disabled, the system will ignore any incoming call from the modem/LAN. During Enabled, the system will boot up if there's an incoming call from the modem.

Wake Up on RTC Alarm

This function is for setting date and time for your computer to boot up. During Disabled, you cannot use this function. During Enabled, choose the Date and Time Alarm:

Time(dd:hh:mm) of Alarm

You can choose which day of month, what hour, minute the system will boot up.

Note: If you have change the setting, you must let the system boot up until it goes to the operating system, before this function will work.

3-9 PnP/PCI Configuration Setup

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

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software PnP/PCI Configurations

Reset Configuration Data	Disabled	Item Help
Resources Controlled By x IRQ Resources	Manual Press Enter	Menu Level >
PCI/VGA Palette Snoop Assign IRQ For VGA Assign IRQ For USB	Disabled Enabled Enabled	
↑↓→← Move Enter:Select +/ F5:Previous Values	-/PU/PD:Value F10:Save F F6:Optimized Defaults	-

Reset Configuration Data

Normally, you leave this field 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 operating system can not boot. The settings are: Enabled and Disabled.

Resource Controlled By

The Award Plug and Play BIOS has the capacity to automatically configure all of the boot and Plug and Play compatible devices. However, this capability means absolutely nothing unless you are using a Plug and Play operating system such as Windows[®]95/98. If you set this field to "manual" choose specific resources by going into each of the sub menu that follows this field (a sub menu is preceded by a ">").

The settings are: Auto(ESCD), Manual.

IRQ Resources

When resources are controlled manually, assign each system interrupt a type, depending on the type of device using the interrupt.

Please refer to section 3-9-1

PCI/VGA Palette Snoop

Leave this field at *Disabled*. The settings are Enabled, Disabled.

3-9-1 IRQ Resources

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software

IRQ Resources

IRQ3	assigned to	PCI Device	Item Help
IRQ4	assigned to	PCI Device	item heip
IRQ5	assigned to	PCI Device	
IRQ7	assigned to	PCI Device	Menu Level >>
IRQ9	assigned to	PCI Device	
IRQ10	assigned to	PCI Device	
IRQ11	assigned to	PCI Device	
IRQ12	assigned to	PCI Device	
IRQ14	assigned to	PCI Device	
IRQ15	assigned to	PCI Device	
^↓→←	Move Enter:Sele	ct +/-/PU/PD:Value F10:Save	ESC:Exit F1:General Help
		5 F6:Optimized Defaults	-

3-10 PC Health Status

This section shows the Status of you CPU, Fan, Warning for overall system status. This is only available if there is Hardware Monitor onboard.

	PC Health Statu	S
Shutdown Temperature Show PC Health in Post	Disabled Enabled	Item Help
Current System Temperature Current CPU Temperature	25°C 38°C	
Current CPUFAN Speed		Menu Level >
Current SYSFAN1 Speed	—	
Current SYSFAN2 Speed	5000 rpm	
Vcore	1.78V	
Vcc3.3	3.31V	
+ 5V	4.98V	
+12V	12.22V	
-12V	-12.36V	
VBAT(V)	3.21V	
5VSB(V)	5.02V	
		Save ESC:Exit F1:General Help lts F7:Standard Defaults

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software

Shutdown Temperature

This item can let users setting the Shutdown temperature, when CPU temperature over this setting the system will auto shutdown to protect CPU.

Show PC Health in Post

During Enabled, it displays information list below. The choice is either Enabled or Disabled

Current CPU Temperature/Current System Temp/Current FAN1, FAN2 Speed/Vcore/ Vdd/3.3V/+5V/+12V/-12V/VBAT(V)/5VSB(V)

This will show the CPU/FAN/System voltage chart and FAN Speed.

Detect CPUFAN in Post

During Enabled, system will warn the user if CPU Fan is not functioning.

3-11 Miscellaneous Control

This section is for setting CPU Frequency/Voltage Control.

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software

Miscellaneous Control

** Current Host Clock is		
Host Clock at Next Boot is	100MHz	Item Help
** Current DRAM Clock is		
DRAM Clock at next Boot is	133MHz	
CPU Vcore Select	Default	Menu Level >
CPU Ratio Select	Default	
Core_VDD Select	1.7V(Default)	
VDD_AUXC Select	1.6V(Default)	
VAGP Output	1.5V(Default)	
VRAM Output	2.6V(Default)	
VAUX Output	Default	
VTT Voltage	1.25V	
VAGP LUV Protect	Enabled	
VRAM LUV Protect	Enabled	
Dual3.3V LUV Protect	Disabled	
Flash Parts Write Protect	Enabled	
\uparrow ↓→← Move Enter:Select +	/-/PU/PD:Value F10:Save E	SC:Exit F1:General Help
F5:Previous Values	F6:Optimized Defaults	F7:Standard Defaults

Host Clock at next Boot is

This item allows you to select CPU frequency step by step increasing

The choice are: 100MHz, 133MHz, 166MHz, 200MHz, 236MHz, 240MHz, 242MHz, 244MHz, 245MHz, 250MHz

DRAM Clock at next Boot is

This field displays the capability of the memory modules that you can use

The choice is either 100MHz, 110MHz, 125MHz, 133MHz, 138MHz, 166MHz, 200MHz, 208MHz, 221MHz, 249MHz

CPU Vcore Select

This item allows you to select V core of the CPU. The choice are: $+1.100V \sim +1.850V$.

CPU Ratio Select

This item allows you to select Ratio of the CPU. The choice are:X5~X24

VDD AUXC Select

This item allows you to select Chip Voltage. The choice are 1.6V(Default), 1.7V

VAGP Output

This item allows you to select 1.5V of the AGP 4X VGA card. The choice are: 1.5V, 1.6V,1.7V

VRAM Output

This item allows you to select 2.5V of the DDR Module. The choice are: $2.5V \sim 3.0V$.

VAUX Output

This item allows you to select AUX voltage. The choice are: Default, 2%, 4%, 8%, 12%, 16%.

VTT Voltage

This item allows you to select VTT voltage. The choice are: 1.25V, VDIMM/2.

VAGP/VRAM LUV Protect

This item allows you enabled the protect function on motherboard when over current. The choice are: Enabled(Default), Disabled

Flash Part Write Protect

This item allows you protect BIOS prevent the data destroy by virus. The choice are: Enabled, Disabled. Before flash BIOS you have to change the setting to Disabled otherwise it can not flash BIOS.

3-12 Load Standard/Optimized Defaults

Load Standard Defaults

When you press <Enter> on this item, you get confirmation dialog box with a message similar to:

Load Standard Defaults (Y/N)? N

Pressing <Y> loads the BIOS default values for the most stable, minimal-performance system operations.

Load Optimized Defaults

When you press <Enter> on this item, you get a confirmation dialog box with a message similar to:

Load Optimized Defaults (Y/N)? N

Pressing $\langle Y \rangle$ loads the default values that are factory settings for optimal performance system operations.

3-13 Set Supervisor/User Password

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

Supervisor password: Can enter and change the options of the setup menus.

User password: Can only enter but do not have the right to change the options of the setup menus. When you select this function, the following message will appear at the center of the screen to assist you in creating a password.

ENTER PASSWORD:

Type the password, up to eight characters in length, and press <Enter>. The password typed now will clear any previously entered password from CMOS memory. You will be asked to confirm the password. Type the password again and press <Enter>. You may also press <Esc> to abort the selection and not enter a password.

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

PASSWORD DISABLED.

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

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

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

Chapter 4

DRIVER & FREE PROGRAM INSTALLATION

Check your package and there is A MAGIC INSTALL CD included. This CD consists of all DRIVERS you need and some free application programs and utility programs. In addition, this CD also include an auto detect software which can tell you which hardware is installed, and which DRIVERS needed so that your system can function properly. We call this auto detect software MAGIC INSTALL.

MAGIC INSTALL Supports WINDOWS 98SE/ME/NT4.0/2000/XP

Insert CD into your CD-ROM drive and the MAGIC INSTALL Menu should appear as below. If the menu does not appear, double-click MY COMPUTER / double-click CD-ROM drive or click START / click RUN / type X:\SETUP.EXE (assuming X is your CD-ROM drive).



From MAGIC INSTALL MENU you may make 11 selections:

- 1. nFORCE install NVIDIA nForce chipset system driver
- 2. VGA install NVIDIA VGA driver
- 3. SOUND install ALC AC97' Audio Codec driver
- 4. USB2.0 install USB 2.0 driver
- 5. PC-CILLIN install PC-CILLIN2002 anti-virus program
- 6. PC-HEALTH install PC-HEALTH monitor Utility
- 7. MBIOS&DX9 install BIOS Live Update Utility and Microsoft DirectX 9 driver
- 8. MAGIC TWIN install Magic Twin utility
- 9. BROWSE CD to browse the contents of the CD
- 10. EXIT to exit from MAGIC INSTALL menu

4-1 nFORCE install NVIDIA nFORCE Pack driver

* The path of the file is X:\DRIVER\SETUP.EXE

- **IDE :** VIDIA ATAPI VENDOR SUPPORT DRIVER IS USED TO FIXED COMPATIBILITY ISSUE FOR IDE DEVICES
- AGP: NVIDIA AGP DRIVER IS TO BE INSTALLED, IF YOU ARE USING AN AGP VGA CARD, NVIDIA GART WILL PROVIDE SERVICE ROUTINES TO YOUR VGA DRIVER AND INTERFACE DIRECTLY TO HARDWARE, PROVIDING FAST GRAPHIC ACCESS

MEMCTL: NVIDIA Memory Controller driver

SMBUS : NVIDIA SMBUS Controller driver

ETHERNET : NVIDIA nFORCE MCP networking



1. Click nFORCE when MAGIC INSTALL MENU appears



2. Click NEXT when NVIDIA Windows98/ ME/2000/XP nForce Drivers Wizard appears



3. Click Finish to restart computer

4-2 VGA install NVIDIA VGA Driver



1. Click VGA when MAGIC INSTALL MENU appears



3. If You Want Re-start Computer, Click FINISH



2. Click NEXT When NVIDIA Win95/98/ME/ 2000/XP Display Driver Windows appear

4-3 Sound Install AC97 Audio Codec Driver

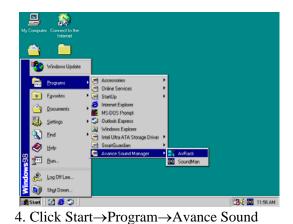


1. Click SOUND when MAGIC INSTALL MENU appears



2. Then auto detect operation system language edition, click OK, start to install DRIVER





Manager→AvRack. Then AVRACK Windows

3. Click Finish and Restart Windows

Sound Effect Equalizer General	
Environment	
(None)	Ed?,
KaraOK	Other
Voice Cancellation	
	Auto Gain Control
KEY	
	Equalizer
+0 Reset	Equation

- Sound Effect select and KaraOK Mode 5. Function
- 20 Io4 (A) 156 🖁 Start 🛛 🧭 🎒 🛛 AC97 Au
- Manual Sound Effect Setting 6.

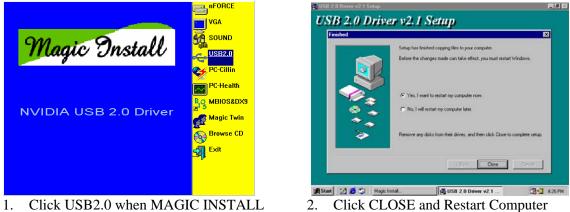
appears AC97 Audio C

> +12 dB +6 dB 0 dB -6 dB -12 dB iffe

Note: The path of the file For WIN98/NT4.0/WIN2K/XP is X:\CODEC\ALC\SETUP.EXE

4-4 USB2.0 Install NVIDIA USB 2.0 Driver





MENU appears

Windows XP USB 2.0 Driver installation

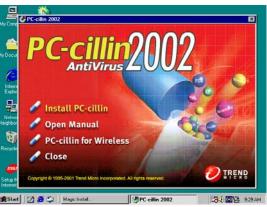
- 1. Install Windows XP Service Pack 1 or later
- Select My Computer, Press Right Button, Select Properties, Go to Hardware \ Device Manager, Remove Other Device \ Universal Serial Bus (USB) Controller
 Bestart Your Computer. It Will Find "NVIDIA USB? 0 Enhanced Host Controller"

Restart Your Computer, It Will Find **"NVIDIA USB2.0 Enhanced Host Controller"** And **"USB2.0 Root Hub Device"**

4-5 PC-CILLIN Install PC-CILLIN 2002 Anti-virus program



1. Click PC-CILLIN when MAGIC INSTALL 2. MENU appear



(1) Click "Install PC-CILLIN" when PC-CILLIN 2002 main menu appears, and Click NEXT when "Install Shield Wizard For PC-CILLIN 2002"

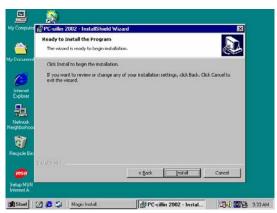
(2) Click Open Manual. you can learn PC-CILLIN 2002 how to use



3. This is license agreement, select "I Accept the terms" and Click NEXT



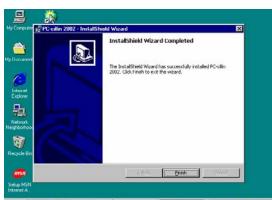
 4. Click NEXT and Enter your Customer Information, Click NEXT or choose Change to change the path for the file to be stored



5. Click INSTALL, Start to install the software



7. After PC-CILLIN 2002 complete, Please register your information and get LICENSE KEY from TREND MICRO web site, enter your license key and click FINISH



- 6. Setup Complete and click FINISH

PC-cillin2002	2		1	
Simple Standar	d Settings H	IELP SUP	PORT SECURITY	INFO ABO
0	Update Nov	v		
System status	To ensure protection	in ansiset th	e latest threats, you n	not to require
Scan Now			engine, and program	
Scan Now	- Current version -	eutoration de la constante de la		14125-0
120 Update	Program version:	9.02	Build number:	1255
	Scan engine:	5.63	Virus pattern;	222
	The following steps	s are perform	ned after you click Up	date'.
Quarantine	- Update progress	a obazar intere Et		Strates to
Quarantine	1. Connect to			
Yiew Logs	2. Check upo 3. Download		tents	
S THEY LOOPS	 Download Install files 			ð
Register				Update
Register	0%		100%	

- 8. finish register process, we recommend select update item to download newest engine code and virus code
- Note : Please install ACROBAT READER, Before you read PC-CILLIN 2002 User Manual, the path at X:\acrobat\ar500eng.exe

PC-HEALTH Install NFORCE2 Hardware Doctor Utility 4-6

The path of the file is X:\83627HD\SETUP.EXE (support WINDOWS 98SE/ME/2000/XP)



- 1. Click PC-Health when Magic Install Menu 2. Click Next when Winbond Hardware Doctor appears
- Setup Window appears



3. Click Next to continue installation

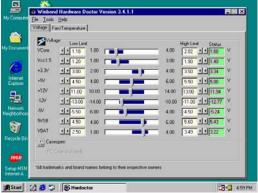


4. Select Program Group name or enter a new group name, click Next, and click Finish after setup complete



1. \rightarrow Hardware Doctor the Winbond Hardware Doctor will appears

You can remove the Utility in Control Panel \rightarrow Add/Remove Program icon



Click Program \rightarrow Winbond Hardware Doctor 2. After executing Winbond Hardware Doctor it supports system voltage, Fan speed and CPU/SYSTEM Temperature. Because this is a On-time Monitoring program therefore the value will change after it detected, if the value is over default setting the system will have warning picture and beeps. This is a System Voltage status



This is a CPU/System Fan Speed and 3. Temperature status information

How To Utilize PC-HEALTH 4-6-1

MAGIC BIOS Install BIOS Live Update Utility 4-7



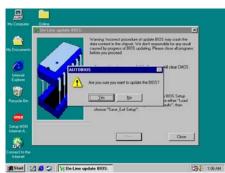
1. Click Magic BIOS when Magic Install MENU 2. Click Next to install the Magic BIOS in



After finish Setup you will have a Magic 3. BIOS icon in your screen



5. When On-line update BIOS the program will auto-check your BIOS version



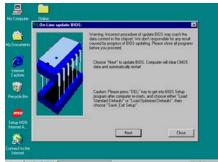
7. Click Yes if you want to update the BIOS otherwise choose No to exit



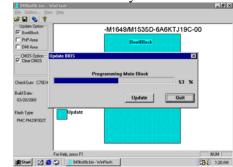
Destination Folder



Double click the Magic BIOS icon you will 4. have this picture, choose from internet you can upgrade **BIOS** On-line



Stat 6. Click Next if you need update BIOS, after upgrade BIOS, the system will clear CMOS and automatically restart



When System programming BIOS don't turn 8. off power, after finish update BIOS, the system will clear CMOS and automatically Restart



9. When choose From Local Driver to update BIOS, you must have the correct BIOS file in your Local Driver



10. Choose the correct BIOS file to update BIOS

4-8 HOW TO UPDATE BIOS

Before update BIOS please choose Disabled in "Flash Part Write Protect" item on "Miscellaneous Control" in BIOS Setup, please refer page 32.

- Method 1. Use "Magic BIOS" update BIOS in Windows 98 (refer page 41)
- Method 2. In DOS Mode
- **STEP 1.** Prepare a boot disc. (you may make one by click START click RUN type SYS A: click OK)
- **STEP 2.** Copy utility program to your boot disc. You may copy from DRIVER CD X:\FLASH\AWDFLASH.EXE or download from our web site.
- **STEP 3.** Copy latest BIOS for N2VIEW from our web site to your boot disc.
- STEP 4. Insert your boot disc into A:, start the computer, type "Awdflash A:\N2VIEWAxxx.BIN /SN/PY/CC/R" N2VIEWAxxx.BIN is the file name of latest BIOS it can be N2VIEWA3.BIN or N2VIEWB2.BIN
 - SN means don't save existing BIOS data
 - PY means renew existing BIOS data
 - CC means clear existing CMOS data
 - R means restart computer
- **STEP 5.** Push ENTER and the BIOS will be updated, computer will be restarted automatically.

CHAPTER 5

5-1 INSTALLATION OF MagicTwin (a 2-User-System solution)

Introduction

MagicTwin is a 2-User-System solution built on this special designed motherboard with dual video connectors onboard, two PS/2 keyboards and two PS/2 mice connected from motherboard using packaged Y-cables and one piece of software (Driver and Tools). It allows you to add ONE additional station simultaneously running under Windows XP Home or XP-Professional (Service Pack 1). Please refer the detail on the packaged MagicTwin XP 2-User Software Installation Guide.

Necessary Components to Configure 2-User-System:

- > one special designed Motherboard (incl. all cablings)
- > two Y-cables for two PS/2 Keyboards and two PS/2 Mice
- MAGIC INSTALL CD (incl. all DRIVERS you need and some TOOLS to enable the 2-User function of the motherboard). In addition this CD includes an auto detect software, which detects, installs and assigns the related 2nd video display and the 2nd PS/2 keyboard and PS/2 mouse.
- two monitors
- two speaker systems (optional)

Recommendations

- CPU: >1.2 GHz
- > minimum 256 MB RAM for two Stations, running simultaneously
- two Standard PS/2 Keyboards, -Mice and two Monitors (Sound: optional)
- > Hard disk and CD-ROM drive

Installation of MagicTwin

- > We recommend to install Windows XP and all related drivers from the scratch
- Switch off your PC and open the computer case
- > Connect two monitors to the dual VGA connectors onboard
- As well attach the delivered Y-cables to the "green" port (former PS/2 Mouse port) and into the "violet" port (former PS/2 Keyboard port) at the rear side of the motherboard.
- Connect the 1st. and 2nd. Mouse to the octopus cable, which is also linked to the "green" PS/2 connector and the 1st. and 2nd Keyboard to the other octopus cable, which is also connected to the "violet" port. The additional monitor MUST be attached otherwise windows will not detect and enable the 2nd monitor. Make sure the additional keyboards and mice work; they should affect the host console.
- Start your PC. Windows will automatically detect the new AGP Video device as a standard VGA-card. Please install all drivers first before your install "MagicTwin" of the MAGIC INSTALL CD. Insert the CD, wait for the automatic start and run the Installation of all other drivers first, and then lastly the MagicTwin from the Magic Install CD. If the CD does not run automatically, please click to Start-> Run-> CD-Drive-> SETUP.EXE.



Click "MagicTwin" when the MAGIC INSTALL MENU appears. The Installation-routine will start...



Welcome- Mask, click "Next"

Installing MagicTwin
MagicT win Create Password for Administrator
Install , UnInstall and Console programs require password protection to run. Please type this password now, without password continue install program is impossible.
Enter the Jetway MagicTwin Administrator Password:
New Password:
Betype New Password:
Disable password protection
Install Network Administrator Console
< <u>B</u> ack <u>N</u> ext > Cancel

Password and Network Console, click "Next"

Installing MagicTwin		×
MagicTwin Choose Destination Location	1	Ę
Program will install MagicTwin in the followin	ng directory.	
To install in this directory, click "Next". To install in a different directory,click "Brow	se'' or type a new directory path.	
Click "Cancel" to exit this program.		
Destination Directory		
E:\Program Files\MagicTwin	Browse	
	< <u>B</u> ack <u>N</u> ext > Can	cel

Option: Change destination path or click "Next"

Installing MagicTwin
MagicTwin Registration/Serialnumber(s)
Serial Number: 8810192
Activation Key: 134664 · 523432 · 494080
Name: Your Name
Company: Your Company
Email Your Mail
Phone: Your Phone number
Advanced
< <u>₿</u> ack <u>N</u> ext> Cancel

Type in the Serial and your Address, click "Next"

Installing Magic Twin	×
MagicT wi n	
Source: \\\Hp-server\f-platte\Technik\MU-2000XP\2000X	P\SW-re
Destination: D:\Program Files\MagicTwin\KMKBDPNP.SYS	Ok
Copying needed files	
< <u>B</u> ack	Mext> Cancel

Installing MagicTwin	X
-osr on the Maye	MagicTwin successfully installed! You can start MagicTwin Console under: Start > Programs > MagicTwin > MagicTwin Lonsole.
MagicTwin	Install needs to restart system. Do you want to reboot your computer? Yes, I want to restart my computer now No, I will restart my computer later
	<u>H</u> estart Cancel

Installation in process, please wait...

Afterwards "Reboot your PC".

- ➢ Windows is restarting and loading the new installed drivers. The MagicTwin will be activated and assign automatically the 2nd Station to the 2nd monitor, -PS/2-keyboard and PS/2 mouse.
- > Please login in to Windows and add one or more additional users under the control panel.

NVIDIA AGP-card

The NVIDIA AGP dual-headed adapters are supported under MagicTwin. It does not work with ATI graphic card at the moment. One display can be used by the host and the second by the MagicTwin station. This will be done automatically after installation of MagicTwin. Please refer to the MagicTwin XP 2-User Software Installation Guide for detail.

Language Support

The MagicTwin Console text and online help have not been updated for all supported languages. The same applies to the installation process text, menu items and desktop shortcuts. Therefore some text may be incorrect with respect to some languages.

Microsoft License Agreement

MagicTwin is (technically) able to run with only a single Windows-XP Installation and license. Each software application including Windows has i's own EULA (End User License Agreement) that you must check for the specifics of multi-user application. 's software license does not supersede any other manufacturer's license. Since most liecense agreements are vague about this specific situation of multi-user or leave it open, and their partners cannot give any general recommendation other than to check the EULA of the software that is being used on each of the workstations.

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