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Motherboard 7KM400QP

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# Chapter 1 7KM400QP Specifications

# **Chapter 1** Specifications

**1.1. Introduction** 

The 7KM400QP motherboard is an integration of AMD Athlon/Duron CPU in Socket 462 packaging and the North Bridge VIA KM400A supporting 100/133/166/200 MHz Front Side Bus.

North Bridge KM400A on board also supports DDR 266/ 333/400 SDRAMs, while the South Bridge VT8235 provides stable supports of ULTRA ATA 133, SATA interface, 6-channel Audio playback and USB 2.0/1.1 interface.

This manual is a general reference of the first release of this motherboard which is subject to update without notice. If any difference is found between this manual and the motherboard you are using, please visit our Web Site for update information.

# **1.2. Package Contents**

- HDD UDMA66/100 Cable x1.
- FDD Cable.
- Flash Memory with BIOS.
- I/O Shielding
- Fully Setup Driver CD with built in utilities.
- User Manual.

## **1.3. Specifications and Features**

#### **CPU Processor**

| Support 100/133/166/200 MHz System Interface speed | Single Socket 462 for AMD<sup>™</sup> Athlon CPUs 700MHz~3200+ or higher\*, and Duron CPUs 600 ~ 1400 MHz or higher\*

\* The higher frequency CPU should be compatible with AMD CPU specificiation and the motherboard latest BIOS version which will be released in our Web Site (url printed on the cover page).

#### Chipset

| VIA KM400A North Bridge | VIA VT8237 South Bridge

### PCI

| Supports 1 x PCI slots, 32-bit 33MHz PCI Bus speed.

### **DDR SDRAM Memory**

| Supporting 64/128/256/512/1G....MB DDR module in 2 slots | Supporting Synchronous 400/333/266MHz DDR SDRAM | Supporting a maximum memory size of 2GB of DDR SDRAM

### **Universal Serial Bus**

| Supporting two on-board Universal Serial Bus(USB) Ports and four external Universal serial Bus USB Ports. | Supporting USB 2.0/1.1

### AGP

| Supporting 1 x AGP8X slot, V3.0 compliant.

### VGA integrated on board

KM400A supporting VGA interface for VGA display
Supporting 1x S-Video and 1x A-Video connectors for TV dis play

#### **Award BIOS**

 Supporting Plug & Play specification which detects the peripheral devices and expansion cards automatically
Supporting CD-ROM, SCSI, LAN BOOT, Temperature sensor, LAN, Alarm Bus CLK setup

| Supporting Desktop Management Interface (DMI) function for recording mainboard specification

#### ATA 133 On Board

| Supporting PIO Mode 5, Master Mode, high performance hard disk drives.

| Supporting Ultra DMA 33/66/100/133 Bus Master Mode. | Supporting 4xIDE devices, including CD-ROM, CD-R, CD-RW, LS-120 and high capacity hard disk drives with LBA mode

### PCI-Based AC 97 Digital Audio Processor

| AC 97 2.2 compatible Codec, 6-channel Audio interface. | 18-bit Stereo Full-Duplex Codec with up to 48 KHz sampling rate

4 Analog Line-level Stereo inputs for connection from Line, CD, Viedo and AUX

| 2 Analog Line-level Stereo inputs for speakerphone and PC beep

#### IEEE 1394A Controller on board

| IEEE 1394A Controller VT6307S on board

| Supporting 1 x 1394A connector for 400/200/100 Mbits trans fer rate

#### SATA RAID Interface integrated

| South Bridge VT8237 supporting SATA RAID interface for RAID system configuration

| Supporting 2 x SATA connectors for 2 RAID Hard Disks con figuration

### WOL (Wake On LAN)

| Supporting system power-on by LAN Ring-up signal.

# 1.4. 7KM400QP Layout Diagram



#### 7KM400QP Component Layout :

- 1. Back Panel: Back Panel I/O Connectors (Mouse, Keyboard, SV, AV, Printer, 1394A, COM1, VGA, LAN, USB0/1, Mic in, Line in, Speaker-out)
- 2. FAN3: Cooling Fan Connector (for AGP Fan)
- 3. J8: Front Audio Connector
- 4. CD-IN1: CD Audio In Connector
- 5. SPDIF1: (Sony/Philip Digital Interface Format) Audio Connector
- 6. AGP 8X/4X slot
- 7. USB1: Pin-Header for 2 USB ports
- 8. South Bridge VIA VT8237CD
- 9. 2x Serial ATA connectors
- **10. PANEL1: Front Panel connectors**
- 11. J7: Jumper for USB Power Select
- 12. JBAT1: Jumper for clearing CMOS
- 13.2 x IDE connectors
- 14. USB2: Pin-header for 2 x USB ports
- **15. FDD: Floppy Drive Connector**
- 16. J5: Jumper for CPU Clock Select
- 17. IR1: Connector for Infrared signal Receive/Transmit
- 18. ATX2: ATX Power Connector
- **19. FAN2: Cooling Fan connector**
- 20. 2 x DDR DIMM slots
- 21. North Bridge VIA KM400A
- 22. CPU Socket 462 for AMD K7 CPUs
- 23. FAN1: Cooling Fan connector (for CPU Fan)
- 24. LAN Controller RTL8101L
- 25. J6: Jumper for PS2 / USB1-2 Keyboard Power Select
- 26. J10: IEEE 1394A Pin-header
- 27. VT6307S: Chip for IEEE 1394 control
- 28. Modem Pin-header (optional)
- 29. WOL1: Wake-on LAN connector

## **1.5. CPU Installation**

The motherboard operates with Socket 462 for AMD Athlon<sup>™</sup> and Duron<sup>™</sup> processor. The CPU should always have a Heat Sink and cooling fan attached to prevent overheating.

#### **CPU Installation Procedures for Socket 462**

- 1. Pull the lever sideways away from the socket then raise the lever to a 90-degree angle.
- 2. Locate Pin 1 in the socket and look for the white dot or cut edge in the CPU. Match Pin 1 with the white dot/cut edge then insert the CPU.
- 3. Press the lever down to complete the installation.



## **1.6. DDR SDRAM Installation**

The motherboard supports a maximized 3GB memory. It provides three 184-pin unbuffered DDR sockets and each supports 64MB to 1GB DDR memory module.



Note: Push the tabs out. Insert the DDR memory modules into the socket at a 90-degree angle then push down vertically to fit onto place. When you plug or unplug DDR module, you must check your power supply is OFF.

#### Chapter 1

# 1.7. Connectors & Jumpers Setting

### 1.7.1. Back Panel I/O Connectors

This motherboard provides the following back panel connectors:



#### 1.7.1.1. PS/2 Mouse / Keyboard CONN:

The motherboard provides a standard PS/2 mouse / Keyboard mini DIN connector for attaching a PS/2 mouse. You can plug a PS/2 mouse / Keyboard directly into this connector.

#### 1.7.1.2. USB3 (2 ports)

The motherboard provides a OHCI(Universal Host Controller Interface) & EHCI (Enhance Host Controller Interface)Universal Serial Bus Roots for connecting USB devices such as a keyboard, mouse and other USB devices.

1 2 3 4	

USB Pin	Signal
1	5V Power
2	USBDT-
3	USBDT+
4	GND

### 1.7.1.3. Serial Interface Port: COM1

The serial interface port is sometimes referred to as an RS-232 port or an asynchronous communication port. Mice, printers, modems and other peripheral devices are connected to COM1.

COM1



#### **1.7.1.4. Parallel Interface Port**

Sometimes called a Centronics port, the parallel port is almost exclusively used with printers. The parallel port on your system is a 25-pin, DB 25 connector.

#### 1.7.1.5. Audio Ports

Speaker out is a connector for Speakers or Headphones. Line in is used for external CD player, Tape player, or other audio devices. Mic is a connector for the microphones.

#### 1.7.1.6. S-Video out and A-V out connectors

S-Video-out and A-Video-out connectors support Television display directly from mainboard.

#### 1.7.1.7. VGA connector integrated on board

VGA connector integrated on board supporting VGA display.

#### 1.7.1.8. RJ45 connector optional on board

RJ45 connector is optionally integrated on board for support of 100/10 Ethernet LAN interface.

### 1.7.2. ATX Main Power Connectors: ATXPWR

This power connector supports instant power-on functionality, which means that the system will boot up instantly when the power connector is inserted on the board.

10 20	Pin	Signal	Pin	Signal
	1	3.3V	11	3.3V
	2	3.3V	12	-12V
	3	GND	13	GND
	4	5V	14	PS-ON
	5	GND	15	GND
	6	5V	16	GND
	7	GND	17	GND
	8	PW-OK	18	-5V
	9	5V_SB	19	5V
1 11	10	$12\overline{V}$	20	5V
1 11				

#### Important:

To switch on your power supply, please make sure:

- 1. Memory Module is properly installed.
- 2. Power supply setup is OK.

#### Chapter 1

#### 1.7.3. Floppy Disk Connector: FDD

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

### 1.7.4. Hard Disk Connectors: IDE1/IDE2

These connectors are provided with IDE hard disk ribbon cable into the package . After connecting the end of cable with single connector to the mainboard, connect the other two connectors at the other end to your hard disk. If you install two hard disks, you must configure the second drive to Slave mode by setting its jumper settings. BIOS now supports SCSI device or IDE CD-ROM boot up (see "HDD Sequence SCSI/IDE First" & "Boot Sequence" in the BIOS Features Setup of the BIOS SOFTWARE).

### 1.7.5. Fan Connectors: FAN1 (CPU)/2/3



### 1.7.6. CD Audio-In Connectors: CDIN1

CDIN1is the connectors for CD-Audio Input signal. Connect it to CD-ROM CD-Audio output connector for CD audio output.

Definition	
CD-L	1
GND	
GND	
CD-R	
	Definition CD-L GND GND CD-R



### 1.7.7. IR infrared module: IR1 Connector

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

### 1.7.8. SPDIF Connector: SPDIF1

SPDIF1 is designed on board for Digital Audio in/out.



### 1.7.9. Front Audio Connector: J8

J8 provides connection to the Front Audio connectors of the Front Audio Panel.

To use this Front Audio Connector, please remove the jumper caps on it and connect it to the Front Audio Panel.



### 1.7.10. USB Pin Header: USB1/2

USB1/2 is 2x5 Pin Headers for support of external USB ports. Each USB pin header requires a USB cable for expansion of two USB ports. This optional USB cable is available from your motherboard dealer or vendor.

### 1.7.11. Wake On LAN Connector: WOL1

CN2 is a Wake On LAN (WOL) connector for transmitting the Ring signal from a PCI LAN card to wake up system. If you use a PCI LAN card for system networking, you can connect this Wake On LAN connector to the PCI LAN card on board for Wake On LAN function.



### 1.7.12. Front Panel Connectors: PANEL1



#### PSSW

The system power is controlled by a momentary switch connected to this lead. Pushing the button once will switch the system ON.

#### Power LEDLead (PW\_LED)

The system power LED lights when the system power is on.

#### Speaker Connector (SPEAKER)

The speaker (onboard or offboard) provides error beep code information during the Power Self-Test when the computer cannot use the video interface. The speaker is not connected to the audio subsystem and does not receive output from the audio subsystem.

#### HardDrive LEDConnector (HD\_LED)

This connector supplies power to the cabinet IDE activity LED. Read and write activity by devices connected to the Primary or Secondary IDE connectors will cause the LED to light up.

#### Reset Switch Lead (RST)

The connector can be connected to a reset switch. Press this reset switch to restart system.

### 1.7.13. 1394A Pin Header: J10

1x 1394A Pin-header on board, compliant with IEEE 1394A-2000 standard for high performance serial bus, supporting 1x1394 A port, 400/200/100 Mbits transfer rates.

### 1.7.14. Modem Pin-header: J9 (optional)

J9 is a Modem Pin-header designed on board for a Modem card setup.

#### 1.7.15. Serial ATA Connectors: CN2/3

Two SATA Connectors are built on board for high speed data transfer rate up to 150MB/s. Hard Disk Drive with Serial ATA Interface is supported by these two SATA Connector.

### 1.7.16. AGP 8X/4X Slot

AGP 8X/4X Slot on board supporting AGP 8X/4X digital display



AGP 8X/4 Slot supporting AGP 8X/4X Card

#### 1.7.17. CMOS Function Selector: JBAT1

When you have problem with booting system, you may clear CMOS to restore the optimum default BIOS data.



- 1. Remove the Jumper cap of JBAT1 from 1-2.
- 2. After 1 or two seconds, set JBAT1 to 2-3 closed with the jumper cap.
- 3. After 1 or two seconds, restore the JP3 to 1-2 closed. Now, the CMOS RAM has restored to the optimum default setting.

### 1.7.18. USB1/2 Power Selector: J7

J7 is designed to select the USB2/3/4/5 Power function.



### 1.7.19. PS2 / USB3 Keyboard Power Selector: J6

J6 is designed to select the PS2/USB3 Keyboard Power function.



### 1.7.20. CPU Clock Frequency Selector: J5

J3 & J5 are designed to detect the CPU Frequency on board. This motherboard support 200/133/166 MHz overclocking, while 100 MHz is default CPU clock.

J5 Setting	4 <b>COO</b> <sup>3</sup> 1	4 2 3 1	4 <b>2 3</b> 1	
CPU(MHz)	100 MHz (default)	133 MHz	166 MHz	200 MHz



# **Chapter 2 Drivers & Utilities**

There are motherboard drivers and utilities included in the disc attached in this motherboard package. You don't have to install all of them for booting your system. But after you have finished the hardware installation, you have to install an operation system (such as windows XP) before you are able to install any drivers or utilities.

Note: Please be aware of the different Procedures for installing drivers for Windows 98/ME/XP/2000 .

# 2.1. Auto-run Menu

You can use the auto-run menu in the driver CD attached in the motherboard package. Then choose the utility or driver and select model name. The autorun starting screen looks like below:





(2) Select Model Name.







# 2.2. Installing VIA 4-in-1 Service Pack

Enter the item "Chipset" of the Autorun program and install the VIA Service Pack. Follow the illustrations below :

(1) Click "Chipset" Item on the Main Menu.

(2) Click "Next" to continue.

(3) Click ''Yes'' to continue

(4) Click "Next" to install VIA ATAPI Vender Support Driver, AGPDriver and VIA INFDriver.

(5) Tick the Restart button and click "OK" to restart system and complete the Chipset driver setup.



# 2.3. Installing Audio Driver

This motherboard comes with an AC97 CODEC V2.2, 6-channel compatible. You can find the Audio driver from this Auto-run menu.

(1) Click "Audio Driver" Item to start.





(2)	
Click "Next".	

Avance AC'97 Audio	Setup
	InstallShield Wizard Complete Setup has finished instaling Avance ACS7 Audio on your computer.
	If (Vis, I want to instant my computer inon)       If No. I wait tends my computer iden.       Remove any data from their driver, and then clob. Finish to complete setup.
	KBack Finish Cancel

(3) Click "Finish".

#### Chapter 2

# **2.4. Installing VGA Drivers**

Enter the item "VGA" of the Autorun program and install the VGADrivers for Win9X/NT/2000/XP. Follow the illustrations below

(1) Click ''VIAVGADriver'' Item.



(2) Clickthe OS running on system.



(3) Click "Next" to continue with the setup.



(4) In a few seconds, you are prompted to restart system, click ''Finish'' to restart system and complete installation.



# 2.5. Installing USB 2.0 Driver

The VIA USB 2.0 driver is intended for Win 9X/Me/2K/XP systems.

(1) Click the "USB2.0 " item.



(3) Tick "Install USB Driver" The Setup Program informs you that System will restart automatically after setup completes. Click "Yes" and Next" to continue



#### (4)

Follow the instructions on the Setup screens and finish Setup in a few seconds. Your system will then automatically restart to complete setup

# **2.6. LAN Drivers (optional)**

(1) Click the "LAN Driver " item.



(2) Instantly, Setup Wizard starts. Click ''Next'' to continue.



(3) Instantly, Setup starts installing.



(4) In a few seconds, setup completes. Restart system to put the just installed driver into effect.



# 2.7. Installing Modem Driver (optional)

Enter the item "Modem" of the Autorun program and install the Modem Drivers for Win9X/NT/2000/XP. Follow the illustrations below

(1) Click ''VIA Modem Driver'' Item.





(2) Click the OS running on system.



Click the ''>>'' button to continue.

(3)

(4) In a few seconds, setup completes. Click the Tick button to restart system and complete installation.



# 2.8. Installing RAIDDriver (optional)

You should first configure your Serial ATA hard disk into RAID configuration and then install the RAID driver.

(1) Click ''RAID Driver'' Item.

(2) The RAID Wizard starts. Click "Next" to continue.

(3) Agree to the License Agreement and click "Next" to continue.

#### (4)

The Setup Program will set up the RAID driver and Config Utility into your system. Click "Next" to continue.

#### (5)

In a few seconds, setup completes. Click the Finish button to restart system and complete installation.



# **Chapter 3 Test Report**

# Chapter 3. Compatibility Test (1) CPU Compatibility Test

Win98 SE 1024 x 768 x	32 bit						
AGP Model		AGP Mode		2001SE	Q. framos	framos coconde	
EVEGNOLOSEM	MINEACT	0V	4 14 10 4402	0000	1246	0.6	166.2
QEA TIA200	INTERACT.	0/	4 14 10 4403	0000	1246	0.0	100.2
Vabre 400/128M	ACODD	0/	4 14 01 3080	6467	1246	5.5	135.9
G550	Modex	0A	4.12.01.1210	1267	1246	41.1	22.7
GE2 GTS LIIItra 64M DDR	CREATIVE	4/	414.01.3082	4760	1340	41.1	128.0
		KA	1 7	1		1010	
Win98 SE 800 x 600 x '	16 bit	5					-
		AGP Mode	Darver	2001SE	01	rake III Demo L	U1
PADEON 9700	ATI	ov	A 13 01 0060	10252	1346	12.5	107.6
GE3 TISOD	MINEAGT	47	4 14 10 4403	9678	1346	9.8	107.4
GF4 TI4200 PORLINK GA-OE 2560 GIGARYTE		97/ 0V	4 14 10 4403	9679	1346	0.0	100.0
		+OF 2560 GIGARYTE 4V 41410.3	4 14 10 3082	4273	1346	3.7	110.0
Xabre 600/64M	ACORP	8X	4.14.01.3080	7329	1346	10.8	124.8
Win 2000 1024 x 768 x	32 bit						
ACTUALIN	Maria	ACD Martin	Dirver	SDNARK	QL	iake 🖩 Demo (	01
		Are mode		Bench Node	frames	seconds	føs
GF4 TI4200	WINFAST	8X	6.14.10.4523	8673	1346	9.2	146.2
RADEON 64M	ATI	4X	6.14.10.6343	3558	1346	18.3	73.6
V7100 PR0	ASUS	4X	6.14.10.3082	3375	1346	17	79.3
Xabre 64M TV-OUT	TRIPLEX	8X	6.14.10.3010	6342	1346	10.3	130.4
GF4 Ti4200	PORLINK	8X	6.14.10.4523	8630	1346	9.3	145.4

### (2) Memory Compatibility Test

	Module Vender	IC_Vender	IC_Serial Numbers	CAPACITY	SIDE	DRAM CLK		Memtest 1.04	WS 2002 Rusiness
2	Adata	Adata	ADD8608A8A-4.5	256M	S	450	DIMM 1.2	PASS	20.9
2	Adata	Adata	ADD8608A8A-5B	256M	S	400	DIMM 1.2	PASS	18.3
2	Adata	hmix	HY5DU568228T-D43	256M	S	400	DIMM 1.2	PASS	19.8
2	Adata	Samsung	K4H560838D-TCCC	256M	S	400	DIMM 1.2	PASS	21.1
2	Adata	Winbond	W942508CH-5	256M	S	400	DIMM 1.2	PASS	21.4
2	Adata	WINBOND	W942508BH-5	512M	D	400	DIMM 1,2	PASS	22
2	Adata	SAMSUNG	K4H560838D-TCC4	512M	D	400	DIMM 1,2	PASS	15.3
2	Kinaston	Kinaston	D3208DL1T-5	512M	D	400	DIMM 1.2	PASS	21.7
3	China	PMI	PM4D328V5	256M	S	400	DIMM 1,2	PASS	18.9
3	Geil	Geil	G216L6464D2TG5NKT3	512M	D	400	DIMM 1,2	PASS	FAIL
3	Kingston	hmix	HY5DU56822BT-D43	256M	S	400	DIMM 1.2	PASS	17
2	Transcend	Mosel	V58C22568048AT5	512M	D	400	DIMM 1,2	PASS	22.1
2	Kingmax	Kingmax	KDL388P4EA-50	512M	D	400	DIMM 1,2	PASS	21.8
3	Seitec	Seitec	DDR32M8AT-5	512M	D	400	DIMM 1,2	PASS	16.7
2	Kingmax	KINGMAX	KDL684T4A2A-05	256M	D	333	DIMM 1,2	PASS	14.5
3	Adata	Vdata	VDD8608A8A-6B	256M	S	333	DIMM 1,2	PASS	14.4
3	Adata	Nanya	NT5DS32M8BT-6K	512M	D	333	DIMM 1,2	FAIL	22
1	Apacer	Infineon	HYB25D256800AT-7	256M	D	266	DIMM 1,2	PASS	19.2
2	China	hynix	HY5DU56822AT-H	512M	D	266	DIMM 1,2	PASS	19.8
2	Weblink	ELIXIR	N2DS12880AT-75B	256M	D	266	DIMM 1,2	PASS	19.4
2	Adata	Adata	ADD8608A8A-4.5	256M	S	450	DIMM 1	PASS	20.1
2	Adata	Adata	ADD8608A8A-5B	256M	S	400	DIMM 1	PASS	19.7
2	Adata	hynix	HY5DU56822BT-D43	256M	S	400	DIMM 1	PASS	18.3
2	Adata	Samsung	K4H560838D-TCCC	256M	S	400	DIMM 1	PASS	18.3
2	Adata	Winbond	W942508CH-5	256M	S	400	DIMM 1	PASS	18.2
2	Adata	WINBOND	W942508BH-5	512M	D	400	DIMM 1	PASS	19.2
2	Adata	SAMSUNG	K4H560838D-TCC4	512M	D	400	DIMM 1	PASS	13.4
2	Kingston	Kingston	D3208DL1T-5	512M	D	400	DIMM 1	PASS	21.2
3	China	PMI	PM4D328V5	256M	S	400	DIMM 1	PASS	18
3	Geil	Geil	G216L6464D2TG5NKT3	512M	D	400	DIMM 1	PASS	20
3	Kingston	hynix	HY5DU56822BT-D43	256M	S	400	DIMM 1	PASS	18.3
2	Transcend	Mosel	V58C2256804SAT5	512M	D	400	DIMM 1	PASS	19.2
2	Kingmax	Kingmax	KDL388P4EA-50	512M	D	400	DIMM 1	PASS	20.8
3	Seitec	Seitec	DDR32M8AT-5	512M	D	400	DIMM 1	PASS	13.8

# (3) AGP Display Card Compatibility Test

Win9	8 SE 1024 x 768 x	32 bit						
	AGD Model	Accession in the	ACD Marks	Dirver	10MARK	Quake III Demo 001		
	AOP MODEL	Ventur	WOP MODE	Version	Bench Hode	frames	seconds	fps
	FX5900/256M	WINFAST	8X	4.14.10.4403	9909	1346	8.6	156.2
	GF4 Ti4200	WINFAST	8X	4.14.10.4403	8900	1346	9.9	135.9
X	abre 400/128M	ACORP	8X	4.14.01.3080	6467	1346	11	122
	0550	Martox	4X	4.12.01.1210	1367	1346	41.1	32.7
GF2 (	GTS Ultra 64M DDR	CREATIVE	4X	4.14.01.3082	4760	1346	10.6	126.9
			- AA					
Win9	8 SE 800 x 600 x 1	6 bit			-			
	AGP Model	Vendor	AGP Mode	Dirver Version	2001SE Bench Hode	Quake III Demo 001		
						frames	seconds	fps
1	RADEON 9700	ATI	8X	4.13.01.9069	10252	1346	12.5	107.5
	GF3 TI500	WINFAST	4X	4.14.10.4403	9678	1346	9.8	137.5
	GF4 Ti4200	PORLINK	8X	4.14.10.4403	9678	1346	9.7	138.9
	GA-GF 2560	GIGABYTE	4X	4.14.10.3082	4273	1346	11.4	118.5
)	Kabre 600/64M	ACORP	8X	4.14.01.3080	7329	1346	10.8	124.8
Win 2	2000 1024 x 768 x	32 bit			-			
-	AGP Model	Vendor	AGP Mode	Dirver Version	30NARK 2001SE Bench Hode	Quake III Demo 001		
						frames	seconds	fps
	GF4 Ti4200	WINFAST	8X	6.14.10.4523	8673	1346	9.2	146.2
	RADEON 64M	ATI	4X	6.14.10.6343	3558	1346	18.3	73.6
	V7100 PRO	ASUS	4X	6.14.10.3082	3375	1346	17	79.3
Xa	bre 64M TV-OUT	TRIPLEX	8X	6.14.10.3010	6342	1346	10.3	130.4
	GF4 Ti4200	PORLINK	8X	6.14.10.4523	8630	1346	9.3	145.4

# Chapter 4 Booting Options

# **Chapter 4. etBIOS to Boot System**

# 4.1. etBIOS integrated in System BIOS

In this Motherboard, etBIOS is integrated in system BIOS Setup for booting choise. That means, with etBIOS enabled, you will boot system from the etBIOS menu, from which you can choose whether to boot system from DVD or directly from operating system.

etBIOS is integrated in "Integrated Peripherals" menu of the system BIOS. To enable etBIOS, please first enter BIOS Setup when powering on system and then choose "Integrated Peripherals". The "Integrated Peripherals" menu will pop up as below:

> Phoenix - AwardBIOS CMOS Setup Utility Integrated Peripherals



#### Chapter 4

## **4.2. To Boot System from etBIOS Menu**

If etBIOS is enabled in system BIOS Setup, your system will not be booted directly into operating system. Instead, the etBIOS Boot Menu will appear first as illustrated below:



## **4.2.** The etBIOS DVD Interface



hh:mm.ss (13) How long playback has been on



#### **Advanced Controls:**

 $\rightarrow/-$  (14) Repeat playback



- (15) Random playback (for CD/MP3 only)
- (16) Resume playback



- 1/2//1+2(18) Select Audio channel (for the VCD only)
- u / u))
- (19) Audio / Mute select



(20) Feed / Eject CD



(21) Zoom (Enlarge) (for VCD/DVD only)



(22) Go to Movie Menu (depending on the DVD spec.)



(23) Subtitle (depending on DVD specification)



(24) Select Audio language during DVD playback