HS-2606

Eden Embedded Engine Board • CompactFlash • PCMCIA • Mini PCI • • CRT/Panel • TV-Out • LAN • Audio • • ATA/33/66/100 • 4 COM • USB2.0 • WDT •

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Safety Instructions

Integrated circuits on computer boards are sensitive to static electricity. To avoid damaging chips from electrostatic discharge, observe the following precautions:

- Do not remove boards or integrated circuits from their anti-static packaging until you are ready to install them.
- Before handling a board or integrated circuit, touch an unpainted portion of the system unit chassis for a few seconds. This helps to discharge any static electricity on your body.
- Wear a wrist-grounding strap, available from most electronic component stores, when handling boards and components. Fasten the ALLIGATOR clip of the strap to the end of the shielded wire lead from a grounded object. Please wear and connect the strap before handle the product to ensure harmlessly discharge any static electricity through the strap.
- Please use an anti-static pad when putting down any components or parts or tools outside the computer. You may also use an anti-static bag instead of the pad. Please inquire from your local supplier for additional assistance in finding the necessary anti-static gadgets.
- **NOTE:** DO NOT TOUCH THE BOARD OR ANY OTHER SENSITIVE COMPONENTS WITHOUT ALL NECESSARY ANTI-STATIC PROTECTIONS.

Chapter 1

General Description



The HS-2606 is a 100/133MHz FSB VIA CLE266/VT8235 chipset-based board designed for Mini PCI Local Bus VIA Eden 1GHz Embedded CPU. These features combine and make the HS-2606 and ideal all-in-one industrial single board computer. Additional features include and enhanced I/O with CF, PCMCIA, CRT/Panel, audio, LAN TV-Out, 4 COM, and USB2.0 interfaces.

Its onboard ATA/33/66/100 to IDE drive interface architecture allows the HS-2606 to supports data transfers of 33, 66 or 100MB/sec. To one IDE drive connection. Designed with the VIA CLE266/VT8235 core logic chipset, the board supports VIA Eden 1GHz Embedded CPU. The VIA CLE266 integrated S3 3D supports CRT display up to 1400 x 1050 @ 60Hz, and panel display up to 1400 x 1050.

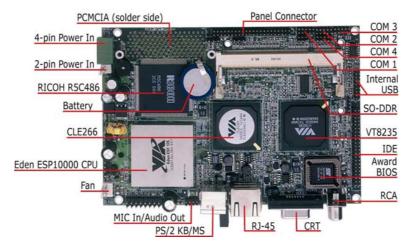
HS-2606 offers PCMCIA connector and CompactFlash reader in addition. +7~+26V wide range single DC power in can make HS-2606 suitable for all kinds of environments even more.



System memory is also sufficient with the one 200-pin SO-DDR socket that can supports up to 1GB.

Additional onboard connectors include 4 USB2.0 port providing faster data transmission. And one external RJ-45 connector for 10/100 Based Ethernet use.

1.1 Major Features



The HS-2606 comes with the following features:

- > VIA Eden ESP10000 1GHz embedded CPU
- One SO-DDR socket with a max. capacity of 1GB
- VIA CLE266/VT8235 chipset
- Winbond W83697UF super I/O chipset
- > VIA CLE266 graphics controller
- RealTek RTL8139DL Ethernet controller
- AC97 3D audio controller
- Fast PCI ATA/33/66/100 IDE controller
- CF, PCMCIA, 4 COM, 4 USB2.0
- TV-Out function

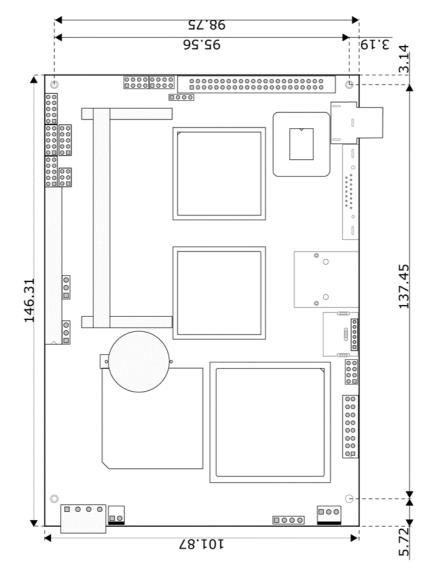
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> +7~+26V wide range single DC power in

1.2 Specifications

- CPU: VIA Eden processor 1GHz
- Memory: One SO-DDR socket supports up to 1GB
- Chipset: VIA CLE266/VT8235
- I/O Chipset: Winbond W83697UF
- CompactFlash: One, Type I/II IDE interface adapter
- PCMCIA: Two PC Card or CardBus slots
- PCI Slot: One, Type I mini PCI slot
- VGA: VIA CLE266 integrated S3 3D supports AGP Bus and Hardware MPEG-2
- **TV-Out:** Supports PAL or NTSC TV system
- Ethernet: RealTek RTL8139DL 10/100 Based LAN
- Audio: AC97 3D audio controller
- IDE: One 2.0-pitch 44-pin IDE connector
- Serial Port: 16C550 UART-compatible RS-232 x 4 serial ports with 16-byte FIFO
- **USB:** 4 internal USB2.0 ports
- Keyboard/Mouse: PS/2 6-pin Mini DIN
- BIOS: Award PnP Flash BIOS
- Watchdog Timer: Software programmable time-out intervals from 1~255 sec.

- **CMOS:** Battery backup
- Power In: +7~+26V wide range single DC power in
- Temperature: 0~+60°C (operating)
- Dimensions: 14.5(L) x 10.2(W) cm



1.3 Board Dimensions

Chapter 2

Unpacking

5

2.1 Opening the Delivery Package

The HS-2606 is packed in an anti-static bag. The board has components that are easily damaged by static electricity. Do not remove the anti-static wrapping until proper precautions have been taken. Saftey instructions in front of this manual describe anti-static precautions and procedures.

2.2 Inspection

After unpacking the board, place it on a raised surface and carefully inspect the board for any damage that might have occurred during shipment. Ground the board and exercise extreme care to prevent damage to the board from static electricity.

Integrated circuits will sometimes come out of their sockets during shipment. Examine all integrated circuits, particularly the BIOS, processor, memory modules, ROM-Disk, and keyboard controller chip to ensure that they are firmly seated. The HS-2606 delivery package contains the following items:

- HS-2606 Board x 1
- Utility CD Disk x 1
- Cables Package x 1
- Jumper Bag x 1
- User's Manual



	Cables Package
NO.	Description
1	4-pin power cable x 1
2	MIC/Audio cable x 1
3	8-pin USB split type cable x 1
4	PS/2 KB/MS transfer cable x 1
5	RS-232 cable x 4
6	IDE flat cable x 1

It is recommended that you keep all the parts of the delivery package intact and store them in a safe/dry place for any unforeseen event requiring the return shipment of the product. In case you discover any missing and/or damaged items from the list of items, please contact your dealer immediately.

Chapter 3

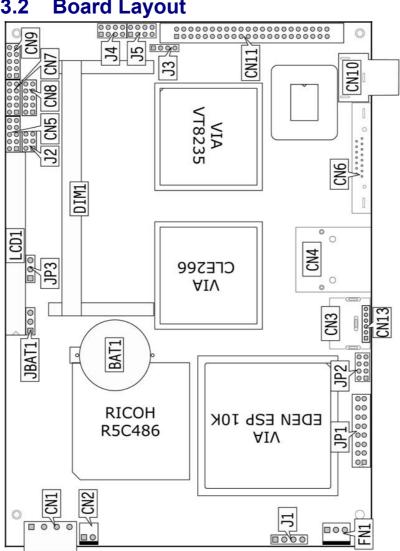
Hardware Installation

This chapter provides the information on how to install the hardware using the HS-2606. This chapter also contains information related to jumper settings of switch, and watchdog timer selection etc.

3.1 Before Installation

After confirming your package contents, you are now ready to install your hardware. The following are important reminders and steps to take before you begin with your installation process.

- 1. Make sure that all jumper settings match their default settings and CMOS setup correctly. Refer to the sections on this chapter for the default settings of each jumper.
- 2. Go through the connections of all external devices and make sure that they are installed properly and configured correctly within the CMOS setup. Refer to the sections on this chapter for the detailed information on the connectors.
- 3. Keep the manual and diskette in good condition for future reference and use.



Board Layout 3.2

3.3 Jumper List

Jumper	Default Setting	Setting	Page
JBAT1	Clear CMOS: Normal Operation	Short 1-2	10
JP3	Panel Voltage Select: +3.3V	Short 1-2	11

3.4 Connector List

Connector	Definition	Page
CN1	4-pin Power In Connector	10
CN2	2-pin ATX Power In Connector	10
CN3	PS/2 6-pin Mini DIN KB/MS Connector	17
CN4	RJ-45 Connector	13
CN5/CN7/CN8/CN9	COM 1~COM 4 Connector (5x2 header)	16
CN6	15-pin CRT Connector	11
CN10	RCA Connector	13
CN11	IDE Connector	15
CN12	CompactFlash Connector	19
CN13	6-pin KB/MS Header	17
DIM1	SO-DDR Socket	10
FN1	Fan Power In Connector	10
J1	Line In Connector	14
J3	GPIO Connector	18
J4/J5	USB Connector	16
JP1	System Front Panel Control	11
JP2	MIC In/Audio Out Connector	14
LCD1	44-pin Panel Connector	11
P1	PCMCIA Connector	19
PC1	Mini PCI Connector	19

3.5 Configuring the CPU

The HS-2606 embedded with a VIA Eden ESP10000 1GHz embedded CPU, user don't need to adjust the frequently and check speed of the CPU.

The new VIA Eden ESP10000 processors based on the Nehemiah core build on the VIA Eden platform lineup, enabling improved digital media performance with ultra low power consumption.

3.6 System Memory

The HS-2606 provides one 200-pin SO-DDR socket at locations *DIM1*. The maximum capacity of the onboard memory is 1GB.

3.7 CMOS Data Clear

The HS-2606 has a Clear CMOS jumper on JBAT1.

• JBAT1: Clear CMOS

Options	Settings
Normal Operation (default)	Short 1-2
Clear CMOS	Short 2-3

IMPORTANT: Before you turn on the power of your system, please set JBAT1 to Short 1-2 for normal operation.

3.8 Power and Fan Connectors

HS-2606 provides one 4-pin power connector at *CN1*. And one 2-pin ATX power in at *CN2*. Connector *FN1* onboard HS-2606 is a 3-pin fan power output connector. And HS-2606 supports +5V fan only.

• CN2: 2-pin ATX Power In Control

PIN	Description	
1	PS_ON	
2	5VSB	1 2

• CN1: 4-pin DC Power In Connector

PIN Description 1 +7~+26V 2 GND 3 GND

4 +7~+26V

• FN1: Fan Power In Connector

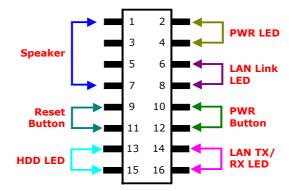
PIN	Description	
1	GND	
2	+5V	1 🗆 〇 〇 3
3	N/C	

3.9 System Front Panel Control

• JP1: System Front Panel Control

PIN	Description	PIN	Description
1	VCC	2	330Ω Pull +5V
3	GND	4	GND
5	N/C	6	LAN Link LED
7	Speaker	8	GND
9	GND	10	PW Button
11	Reset Switch	12	GND
13	330 Ω Pull +5V	14	LAN TX/RX LED
15	HDD LED	16	GND

Connector JP1 Orientation



3.10 VGA Controller

The HS-2606 provides two connection methods of a VGA device. *CN6* offers a single standard CRT connector while *LCD1* is the 44-pin panel connector. VIA CLE266 VGA chipset shared main memory 8/16/32MB, and provides high quality DVD video playback. HS-2606 also provides Hardware MPEG-2.

CRT resolution is up to 1400 x 1050 @60Hz, Panel resolution is up to 1400 x 1050. And LCD at 32bpp is not supported with SXGA + Panel.

• CN6: 15-pin CRT Connector

PIN	Description	PIN	Description	
1	Red	2	Green	
3	Blue	4	N/C	6 11
5	GND	6	GND	
7	GND	8	GND	1888
9	N/C	10	GND	888
11	N/C	12	SDA	
13	HSYNC	14	VSYNC	- 15
15	SCL			

• LCD1: 44-pin Panel Connector

PIN	Description	PIN	Description	
1	N/C	2	N/C	
3	GND	4	GND	
5	V _{LCD}	6	ENAVDD	
7	ENPVEE	8	GND	
9	GFPD0	10	GFPD1	100 2 00
11	GFPD2	12	GFPD3	00
13	GFPD4	14	GFPD5	
15	GFPD6	16	GFPD7	00
17	GFPD8	18	GFPD9	
19	GFPD10	20	GFPD11	
21	GFPD12	22	GFPD13	00
23	GFPD14	24	GFPD15	
25	GFPD16	26	GFPD17	
27	GFPD18	28	GFPD19	00
29	GFPD20	30	GFPD21	00
31	GFPD22	32	GFPD23	
33	N/C	34	N/C	43 0 0 44
35	SHFLCK	36	GFPVS	
37	GFPDEN	38	GHPHS	
39	GND	40	FPBKLP	
41	N/C	42	N/C	
43	N/C	44	N/C	

NOTE: Please set the proper voltage of your panel use JP3 before proceeding on installing it.

The HS-2606 has an onboard jumper that selects the working voltage of the flat panel connected to the system. Jumper *JP3* offers two voltages setting for the user.

• JP3: Panel Voltage Select

Options	Settings	
+3.3V (default)	Short 1-2	0
+5V	Short 2-3	03

3.11 TV-Out Connector

The HS-2606 can supports TV-Out function which input could be up to 800 x 600 graphics resolutions. World Wide Video standards are supported including NTSC-M (North America, Taiwan), NTSC-J (Japan), PAL-B, D, G, H, I (Europe Asia), PAL-M (Brazil), PAL-N (Uruguay, Paraguay) and PAL-NC (Argentina).

• CN10: RCA Connector (for TV-Out function)

PIN	Description
1	SPDIFO
2	GND
3	GND
4	GND

3.12 Ethernet Connector

The HS-2606 provides two external RJ-45 interface connectors. Please refer to the following for its pin information.

• CN4: RJ-45 Connector

PIN	Description	
1	TX+	
2	TX-	
3	RX+	
4	R/C GND	
5	R/C GND	lännnnnä.
6	RX-	
7	R/C GND	
8	R/C GND	

3.13 Audio Connectors

The HS-2606 has an onboard AC97 3D audio controller. The following tables list the pin assignments of the Line In/Audio Out connector.

• JP2: MIC In/Audio Out Connector

PIN	Description	PIN	Description
1	AOUTL	2	AOUTR
3	GND	4	GND
5	MIC IN	6	N/C
7	GND	8	GND

• J1: Line In Connector

1 LINE R 2 GND 3 GND 4 LINE I	PIN	Description	PIN	Description	
3 GND 4 LINEL	1	LINE R	2	GND	
	3	GND	4	LINE L	

3.14 PCI E-IDE Drive Connector

CN11 is a standard 44-pin 2.0-pitch connector daisy-chain driver connector serves the PCI E-IDE drive provisions onboard the HS-2606. A maximum of two ATA/33/66/100 IDE drives can be connected to the HS-2606 via CN11.

PIN	Description	PIN	Description
1	Reset	2	GND
3	DATA 7	4	DATA 8
5	DATA 6	6	DATA 9
7	DATA 5	8	DATA 10
9	DATA 4	10	DATA 11
11	DATA 3	12	DATA 12
13	DATA 2	14	DATA 13
15	DATA 1	16	DATA 14
17	DATA 0	18	DATA 15
19	GND	20	N/C
21	PDREQ	22	GND
23	IOW#	24	GND
25	IOR#	26	GND
27	PIORDY	28	GND
29	RPDACK-	30	GND
31	Interrupt	32	N/C
33	RPDA1-	34	PATA66
35	RPDA0-	36	RPDA2-
37	RPCS1-	38	RPCS3-
39	HDD Active	40	GND
41	VCC	42	VCC
43	GND	44	N/C

• CN11: IDE Connector

3.15 Serial Port Connectors

The HS-2606 offers NS16C550 compatible UARTs with Read/ Receive 16-byte FIFO serial ports and internal 10-pin headers.

• CN5/CN7~CN9: COM 1~COM 4 Connector (5x2 Header)

PIN	Description	PIN	Description	
1	DCD	2	DSR	
3	RXD	4	RTX	9 1
5	TXD	6	CTX	10
7	DTR	8	RI	10 2
9	GND	10	N/C	

3.16 USB Connector

The HS-2606 provides two 8-pin connectors, at location J4 and J5, for four USB2.0 ports to the HS-2606.

• J4/J5: USB2.0 Connector

PIN	Description	PIN	Description
1	VCC	2	VCC
3	BD2-/ BD0-	4	BD3-/BD1-
5	BD2+/ BD0+	6	BD3+/BD1+
7	GND	8	GND

3.17 Keyboard/Mouse Connectors

The HS-2606 offers two possibilities for keyboard/mouse connections. The connections are via CN3 for an external PS/2 type keyboard/mouse OR CN13 for 6-pin header.

• CN3: PS/2 6-pin Mini DIN KB/MS Connector

PIN	Description	
1	Keyboard Data	
2	Mouse Data	6 25
3	GND	4
4	+5V	2 0 0 1
5	Keyboard Clock	
6	Mouse Clock	

• CN13: 6-pin Keyboard/Mouse Connector

PIN	Description	
1	Keyboard Clock	06
2	Keyboard Data	0
3	Mouse Clock	0
4	Mouse Data	0
5	+5V	01
6	GND	

3.18 Watchdog Timer

Once the Enable cycle is active a Refresh cycle is requested before the time-out period. This restarts counting of the WDT period. When the time counting goes over the period preset of WDT, it will assume that the program operation is abnormal. A System Reset signal will restart when such error happens.

The following sample programs show how to enable, disable and refresh the watchdog timer:

;		
Enter the	WDT function	on mode, interruptible double-write
, MOV	DX, 4EH	
MOV	AL, 87H	
OUT	DX, AL	
OUT	DX, AL	
, 5	5	device 8, configuration register CRF30
; MOV	DX, 4EH	
MOV	AL, 07H	
OUT	DX, AL	;point to Logical Device Number Reg.
MOV	DX, 4FH	
MOV	AL, 08H	
OUT	DX, AL	;select logical device 8
MOV	DX, 4EH	
MOV	AL, 30H	
OUT	DX, AL	;select CRF30
MOV	DX, 4FH	
MOV	AL, 01H	we date CDE20 with we had 0.111
OUT	DX, AL	;update CRF30 with value 01H
MOVDX, 4 MOV	AL, F3H	
OUT	DX, AL	;select CRF3 (select WDTO count mode)
MOV	DX, AL DX, 4FH	, select CRF3 (select wDTO coulit mode)
MOV	AL, 00H	
OUT	DX, AL	;update CRF3 with value 00H (bit 2:0=second; 1=minute)
MOV	DX, 4EH	
MOV	AL, F4H	
OUT	DX, AL	;select CRF4 (WDTO Time-out value)
MOV	DX, 4FH	
MOV	AL, 05H	
OUT	DX, AL	;update CRF4 with value 05H
		Bit[7:0] = 00 Time-out Disabled
		01 Time-out occurs after 1 second/minute
		02 Time-out occurs after 2 second/minute

ff Time-out occurs after 255 second/minute

3.19 GPIO Function

The HS-2606 offers four general purpose I/O ports with the following capabilities:

- I2C/SMB Support
- Thermal Detect
- Notebook Lid Open/close Detect
- Battery Low Detect

• J3: GPIO Connector

PIN	Description	PIN	Description
1	GPIO8	2	GPIO9
3	GPIO10	4	GPIO11

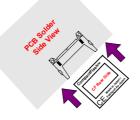
3.20 Mini PCI Slot

HS-2606 supports a mini PCI connector at location *PC1*. The peripheral component with standard TypeI mini PCI can be used. For particular requirement, please refer to "BOSER Mini PCI Series" product on website or contact with us.

3.21 CompactFlash™ Connector

The HS-2606 also offers a Type I/II CompactFlashTM connector which is IDE interface located at the solder side of the board (beneath the SO-DIMM connector). The designated *CN12* connector, once soldered with an adapter, can hold CompactFlashTM cards of various sizes. Please turn off the power before inserting the CF card.

Inserting a CompactFlash[™] card into the adapter is not a difficult task. The socket and card are both keyed and there is only one direction for the card to be completely inserted. Refer to the diagram on the following page for the traditional way of inserting the card.



3.22 PCMCIA Connector

HS-2606 built-in two CardBus/PCMCIA interface connector at location *P1*.



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Chapter 4

Award BIOS Setup

The HS-2606 uses Award BIOS for the system configuration. The Award BIOS setup program is designed to provide the maximum flexibility in configuring the system by offering various options that could be selected for end-user requirements. This chapter is written to assist you in the proper usage of these features.

4.1 Starting Setup

The Award BIOS is immediately activated when you first power on the computer. The BIOS reads the system information contained in the CMOS and begins the process of checking out the system and configuring it. When it finishes, the BIOS will seek an operating system on one of the disks and then launch and turn control over to the operating system.

While the BIOS is in control, the Setup program can be activated in one of two ways:

- 1. By pressing immediately after switching the system on, or
- 2. By pressing the key when the following message appears briefly at the bottom of the screen during the POST (Power On Self Test).

Press DEL to enter SETUP.

If the message disappears before you 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 be asked to...

PRESS F1 TO CONTINUE, DEL TO ENTER SETUP

4.2 Using Setup

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

1	Move to previous item
↓	Move to next item
←	Move to previous item
\rightarrow	Move to previous item
Esc key	Main Menu Quit and not save changes into CMOS Status Page Setup Menu and Option Page Setup Menu
	Exit current page and return to Main Menu
PgUp key	Decrease the numeric value or make changes
PgDn key	Increase the numeric value or make changes
+ key	Increase the numeric value or make changes
- key	Decrease the numeric value or make changes
F1 key	Reserved
F2 key	Change color from total 8 colors. F2 to select color forward
F3 key	F2 to select color backward
F4 key	Reserved
F5 key	Reserved
F6 key	Reserved
F7 key	Reserved
F8 key	Reserved
F9 key	Reserved
F10 key	Save all the CMOS changes, only for Main Menu

4.3 Main Menu

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

 Standard CMOS Features 	Load Fail-Safe Defaults
 Advanced BIOS Features 	Load Optimized Defaults
 Advanced Chipset Features 	Set Supervisor Password
 Integrated Peripherals 	Set User Password
 Power Management Setup 	Save & Exit Setup
PnP/PCI Configurations	Exit Without Saving
 Frequency/Voltage Control 	
Esc: Quit F9: Menu in	BIOS $\uparrow \downarrow \leftarrow \rightarrow$: Select Item
F10: Save & Exit Setup	

NOTE: *A brief description of the highlighted choice appears at the bottom of the screen.*

4.4 Standard CMOS Features

The standard CMOS is used for the basic hardware system configuration. The main function is for Data/Time and Floppy/Hard Disk Drive settings. Please refer to the following screen for the setup. When the IDE hard disk drive you are using is larger than 528MB, you must set the HDD mode to LBA mode. Please use the IDE setup utility in BIOS setup to install the HDD correctly.

Phoenix – AwardBIOS CMOS Setup Utility Standard CMOS Features

			105 i catule		
Date (mm:d	d:yy) Mon	, Aug 9 2004			Item Help
Time (hh:mr	n:ss) 10:	32:57			
► IDE Primary	Master	[Auto]			
► IDE Primary	Slave	[Auto]			
IDE Seconda	iry Master	[Auto]			
IDE Seconda	iry Slave	[Auto]			
Video		[EGA/VG/	4]		
Halt On		[All, But l	Keyboard]		
Base Memor	у	640	ЭК		
Extended Me	emory	56320	ЭК		
Total Memor	У	57344	4K		
$\uparrow \downarrow \leftarrow \rightarrow$: Selec	t Item +/-/P	U/PD: Value	F10: Save	Esc: Quit	F1: General Help
F5: Previous	s Values	F6: Fail-Sa	fe Defaults	F7: 0	Optimized Defaults

4.5 Advanced BIOS Features

This section allows you to configure your system for the basic operation. You have the opportunity to select the system's default speed, boot-up sequence, keyboard operation, shadowing and security.

Phoenix – AwardBIOS CMOS Setup Utility Advanced CMOS Features

Virus Warning	[Disabled]		Item Help
CPU Internal Cache	[Enabled]		
External Cache	[Enabled]		
CPU L2 Cache ECC Checking	[Enabled]		
Processor Number Feature	[Enabled]		
Quick Power On Self Test	[Enabled]		
First Boot Device	[HDD-0]		
Second Boot Device	[CDROM]		
Third Boot Device	[HDD-1]		
Boot Other Device	[Enabled]		
Boot Up NumLock Status	[On]		
Gate A20 Option	[Fast]		
Typematic Rate Setting	[Disabled]		
Typematic Rate (Chars/Sec)	6		
Typematic Delay (Msec)	250		
Security Option	[Setup]		
MPS Version Control For OS	[1.4]		
OS Select For DRAM > 64MB	[Non-OS2]		
Report No FDD For WIN 95	[Yes]		
Video BIOS Shadow	[Enabled]		
Small Logo(EPA) Show	[Enabled]		
\uparrow ↓ ← →: Select Item +/-/PU/PI	D: Value F10: Save	Esc: Quit	F1: General Help
F5: Previous Values	F6: Fail-Safe Defaults	F7: Op	otimized Defaults

4.6 Advanced Chipset Features

This section allows you to configure the system based on the specific features of the installed chipset. This chipset manages bus speeds and the access to the system memory resources, such as DRAM and the external cache. It also coordinates the communications between the conventional ISA and PCI buses. It must be stated that these items should never be altered. The default settings have been chosen because they provide the best operating conditions for your system. You must consider making any changes only if you discover that the data has been lost while using your system.

Auvanced	Chipset Features
DRAM Click/Drive Control	[Press Enter] Item Help
AGP & P2P Bridge Control	[Press Enter]
CPU & PCI Bus Control	[Press Enter]
Memory Hole	[Disabled]
System BIOS Cacheable	[Enabled]
Video RAM Cacheable	[Enabled]
VGA Share Memory Size	[32M]
Select Display Device	[CRT]
TV_type	[NTSC]
TV_Connector	[CVBS]
TV_Layout	[Default]
Panel Type	[07]
\uparrow ↓ ← →: Select Item +/-/PU/PD: Val	ue F10: Save Esc: Quit F1: General Help
F5: Previous Values F6: F6	il-Safe Defaults F7: Optimized Defaults
Phoenix – Awar	BIOS CMOS Setup Utility
DRAM CI	ock/Drive Control

Phoenix – AwardBIOS CMOS Setup Utility Advanced Chipset Features

		Drive Contr	01	
Current FSB Frequency				Item Help
Current DRAM Frequency				
DRAM Clock	[By	PSD]		
DRAM Timing	[By	PSD]		
DRAM CAS Latency	2.5			
Bank Inter leave	Dis	abled		
Precharge to Active (Trp)	3T			
Active to Precharge (Tras)	6T			
Active to CMD (Tred)	3T			
DRAM Command Rate	[2T	Command]		
\uparrow ↓ ← →: Select Item +/-/PU/	PD: Value	F10: Save	Esc: Quit	F1: General Help
F5: Previous Values	F6: Fail-Sa	fe Defaults	F7:	Optimized Defaults

Phoenix – AwardBIOS CMOS Setup Utility
AGP & P2P Bridge Control

	AGI GTZI DIIUge eoi		
AGP Aperture Size	[64M]		Item Help
AGP Mode	[4X]		
AGP Driving Control	[Auto]		
AGP Driving Value	DA		
AGP Fast Write	[Disabled]		
AGP Master 1 WS Writ	e [Disabled]		
AGP Master 1 WS Read	d [Disabled]		
$\uparrow \downarrow \leftarrow \rightarrow$: Select Item +	-/-/PU/PD: Value F10: Sav	e Esc: Ç	uit F1: General Help
F5: Previous Values	F6: Fail-Safe Defaults	F	7: Optimized Defaults
Pho	oenix – AwardBIOS CMOS S	etup Utilit	ty
	CPU & PCI Bus Cont	rol	
CPU to PCI Write Buffe	er [Enabled]		Item Help
PCI Master 0 WS Write	e [Enabled		
PCI Delay Transaction	[Disabled]		
	-/-/PU/PD: Value F10: Sav	e Esc: C	Juit F1: General Help
$\uparrow \downarrow \leftarrow \rightarrow$: Select Item +	-/-/PU/PD: Value F10: Sav		Zuit 11. General help

Integrated Peripherals Phoenix – AwardBIOS CMOS Setup Utility Integrated Peripherals 4.7

	Integrated Per	ripherals		
VIA OnChip IDE Device	[Press	Enter]		Item Help
VIA OnChip PCI Device	[Press	Enter]		
Super IO Device	[Press	Enter]		
Init Display First	[PCI SI	ot]		
Onboard Serial Port 3	[3E8]			
Serial Port 3 Use IRQ	[IRQ10]		
Onboard Serial Port 4	[2E8]			
Serial Port 4 Use IRQ	[IRQ11]		
\uparrow ↓ ← →: Select Item +/	-/PU/PD: Value Fi	L0: Save	Esc: Qu	it F1: General Help
F5: Previous Values	F6: Fail-Safe D	efaults	F7	: Optimized Defaults
Phoe	enix – AwardBIOS C	MOS Setu	p Utility	1
	VIA OnChip ID	E Device	2	
OnChip IDE Channel0	[Enable	ed]		Item Help
OnChip IDE Channel1	[Enable	ed]		
IDE Prefetch Mode	[Enable	ed]		
Primary Master PIO	[Auto]			
Primary Slave PIO	[Auto]			
Secondary Master PIO	[Auto]			
Secondary Slave PIO	[Auto]			
Primary Master UDMA	[Auto]			
Primary Slave UDMA	[Auto]			
Secondary Master UDM	A [Auto]			
Secondary Slave UDMA	[Auto]			
IDE HDD Block Mode	[Enable	ed]		
$\uparrow \downarrow \leftarrow \rightarrow$: Select Item +/	-/PU/PD: Value F:	10: Save	Esc: Qu	it F1: General Help

VIA-3058 AC97 Audio	[Auto]	Item Help
OnChip USB Controller	[All Enabled]	
OnChip EHCI Controller	[Enabled]	
USB Device Function	[Disabled]	
USB Keyboard Support	[Disabled]	
USB Mouse Support	[Disabled]	
$\uparrow \downarrow \leftarrow \rightarrow$: Select Item +/	-/PU/PD: Value F10: Save	Esc: Quit F1: General Help
F5: Previous Values	F6: Fail-Safe Defaults	F7: Optimized Defaults
Phoe	enix – AwardBIOS CMOS Se	tup Utility
	Super IO Device	
Onboard Serial Port 1	[3F8/IRQ4]	Item Help
Onboard Serial Port 2	[2F8/IRQ3]	
UART Mode Select	[Normal]	
RxD , TxD Active	[Hi,Lo]	
IR Transmission Delay	[Enabled]	
UR2 Duplex Mode	[Half]	
Use IR Pins	[IR-Rx2Tx2]	
Midi Port Address	[Disabled]	
Midi Port IRQ	10	
$\uparrow \downarrow \leftarrow \rightarrow$: Select Item +/	-/PU/PD: Value F10: Save	Esc: Quit F1: General Help
F5: Previous Values	F6: Fail-Safe Defaults	F7: Optimized Defaults

Phoenix – AwardBIOS CMOS Setup Utility VIA OnChip PCI Device

4.8 Power Management Setup

The power management setup allows user to configure the system for saving energy in a most effective way while operating in a manner consistent with his owns style of computer use.

Power	Management Setup		
ACPI function	[Enabled]		Item Help
ACPI Suspend Type	[S1(POS)]		
Power Management Option	[User Define]		
HDD Power Down	[Disabled]		
Suspend Mode	[Disabled]		
Video Off Option	[Suspend → Off]		
Video Off Method	[V/H SYNC+Blank]		
MODEM Use IRQ	[3]		
Soft-off by PWRTYN	[Instant-off]		
Run VGABIOS if S3 Resume	[Auto]		
IRQ/Event Activity Detect	[Press Enter]		
\uparrow ↓ ← →: Select Item +/-/PU/PD: V	alue F10: Save E	sc: Quit	F1: General Help
F5: Previous Values F6:	Fail-Safe Defaults	F7: Oj	otimized Defaults
Phoenix – Awa	ardBIOS CMOS Setup	Utility	
IRQ/Ev	vent Activity Detect		
PS2KB Wakeup Select	[Hot Key]		Item Help
PS2KB Wakeup Select PS2KB Wakeup from S3/S4/S5	[Hot Key] [Disabled]		Item Help
	- /-		Item Help
PS2KB Wakeup from S3/S4/S5	[Disabled]		Item Help
PS2KB Wakeup from S3/S4/S5 Power Button Lock	[Disabled] Enabled		Item Help
PS2KB Wakeup from S3/S4/S5 Power Button Lock PS2MS Wakeup from S3/S4/S5	[Disabled] Enabled [Disabled]		Item Help
PS2KB Wakeup from S3/S4/S5 Power Button Lock PS2MS Wakeup from S3/S4/S5 USB Resume from S3	[Disabled] Enabled [Disabled] [Disabled]		Item Help
PS2KB Wakeup from S3/S4/S5 Power Button Lock PS2MS Wakeup from S3/S4/S5 USB Resume from S3 VGA	[Disabled] Enabled [Disabled] [Disabled] [OFF]		Item Help
PS2KB Wakeup from S3/S4/S5 Power Button Lock PS2MS Wakeup from S3/S4/S5 USB Resume from S3 VGA LPT & COM	[Disabled] Enabled [Disabled] [Disabled] [OFF] [LPT/COM]		Item Help
PS2KB Wakeup from S3/S4/S5 Power Button Lock PS2MS Wakeup from S3/S4/S5 USB Resume from S3 VGA LPT & COM HDD & FDD	[Disabled] Enabled [Disabled] [Disabled] [OFF] [LPT/COM] [ON]		Item Help
PS2KB Wakeup from S3/S4/S5 Power Button Lock PS2MS Wakeup from S3/S4/S5 USB Resume from S3 VGA LPT & COM HDD & FDD PCI Master	[Disabled] Enabled [Disabled] [Disabled] [OFF] [LPT/COM] [ON] [OFF]		Item Help
PS2KB Wakeup from S3/S4/S5 Power Button Lock PS2MS Wakeup from S3/S4/S5 USB Resume from S3 VGA LPT & COM HDD & FDD PCI Master PowerOn By PCI Card	[Disabled] Enabled [Disabled] [Disabled] [OFF] [LPT/COM] [ON] [OFF] [Disabled]		Item Help
PS2KB Wakeup from S3/S4/S5 Power Button Lock PS2MS Wakeup from S3/S4/S5 USB Resume from S3 VGA LPT & COM HDD & FDD PCI Master PowerOn By PCI Card Modem Ring Resume	[Disabled] Enabled [Disabled] [Disabled] [OFF] [LPT/COM] [ON] [OFF] [Disabled] [Disabled]		Item Help
PS2KB Wakeup from S3/S4/S5 Power Button Lock PS2MS Wakeup from S3/S4/S5 USB Resume from S3 VGA LPT & COM HDD & FDD PCI Master PowerOn By PCI Card Modem Ring Resume RTC Alarm Resume	[Disabled] Enabled [Disabled] [Disabled] [OFF] [LPT/COM] [ON] [OFF] [Disabled] [Disabled]		Item Help
PS2KB Wakeup from S3/S4/S5 Power Button Lock PS2MS Wakeup from S3/S4/S5 USB Resume from S3 VGA LPT & COM HDD & FDD PCI Master PowerOn By PCI Card Modem Ring Resume RTC Alarm Resume Date (of Month)	[Disabled] Enabled [Disabled] [Disabled] [OFF] [LPT/COM] [ON] [OFF] [Disabled] [Disabled] [Disabled] 0		Item Help
PS2KB Wakeup from S3/S4/S5 Power Button Lock PS2MS Wakeup from S3/S4/S5 USB Resume from S3 VGA LPT & COM HDD & FDD PCI Master PowerOn By PCI Card Modem Ring Resume RTC Alarm Resume Date (of Month) Resume Time (hh:mm:ss)	[Disabled] Enabled [Disabled] [Disabled] [OFF] [LPT/COM] [ON] [OFF] [Disabled] [Disabled] [Disabled] 0 0:0:0		Item Help

F6: Fail-Safe Defaults

F7: Optimized Defaults

Phoenix – AwardBIOS CMOS Setup Utility Power Management Setup

30

F5: Previous Values

	IRQS ACLIVILY MONITORIN	y		
Primary INTR	[ON]	Item Help		
IRQ3 (COM 2)	[Enabled]			
IRQ4 (COM 1)	[Enabled]			
IRQ5 (LPT 2)	[Enabled]			
IRQ6 (Floppy Disk)	[Enabled]			
IRQ7 (LPT 1)	[Enabled]			
IRQ8 (RTC Alarm)	[Disabled]			
IRQ9 (IRQ2 Redir)	[Disabled]			
IRQ10 (Reserved)	[Disabled]			
IRQ11 (Reserved)	[Disabled]			
IRQ12 (PS/2 Mouse)	[Enabled]			
IRQ13 (Coprocessor	[Enabled]			
IRQ14 (Hard Disk)	[Enabled]			
IRQ15 (Reserved)	[Disabled]			
\uparrow ↓ ← →: Select Item	+/-/PU/PD: Value F10: Save	Esc: Quit F1: General Help		
F5: Previous Values	F6: Fail-Safe Defaults	F7: Optimized Defaults		

Phoenix – AwardBIOS CMOS Setup Utility IRQs Activity Monitoring

4.9 PnP/PCI Configurations

This section describes the configuration of the PCI bus system. Peripheral Components Interconnect (PCI), is a system that 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.

Phoenix – AwardBIOS CMOS Setup Utility PnP/PCI Configurations

	PIIP/PCI CO	ningurations		
PNP OS Installed	[No)]		Item Help
Reset Configuration	Data [Di	sabled]		
Resources Controlle	d By [Au	ito(ESCD)]		
IRQ Resources	Pre	ss Enter		
PCI/VGA Palette Sno	pop [Di	sabled]		
Assign IRQ For VGA	[Er	abled]		
Assign IRQ For USB	[Er	[Enabled]		
$\uparrow \downarrow \leftarrow \rightarrow$: Select Item	+/-/PU/PD: Value	F10: Save E	sc: Quit	F1: General Help
F5: Previous Values	F6: Fail-Sa	fe Defaults	F7: C	Optimized Defaults

4.10 Frequency/Voltage Control

Phoenix – AwardBIOS CMOS Setup Utility Frequency/Voltage Control

	Frequency/v	oltage Cont	rol	
VIA C3 Clock Ratio	[D	efault]		Item Help
Auto Detect DIMM/P	CI Clk [E	nabled]		
Spread Specturm	[D	isabled]		
CPU Host/PCI Clock	[D	efault]		
$\uparrow \downarrow \leftarrow \rightarrow$: Select Item	+/-/PU/PD: Value	F10: Save	Esc: Quit	F1: General Help
F5: Previous Values	F6: Fail-S	afe Defaults	F7: Op	timized Defaults

Chapter 5

Software Utilities

The chapter contains the detailed information of VGA, LAN, audio, and USB2.0 driver installation procedures.

The drivers are located in the following directories of the utility disk:

- VGA Driver: \VGA\WIN98_ME or \VGA\XP_2K
- LAN Driver: \LAN
- ◆ Audio Driver: \AC97
- USB2.0 Driver: \USB20\2K or \USB\XP

5.1 VGA Driver Installation

5.1.1 WIN95/98

1. With the Utility CD Disk still in your CD-ROM drive, open the File Manager and then select the VGA driver folder.



2. Select the operation system of your computer to proceed with the installation process.



3. Click on the "Setup.exe" and to go setup.





 Once the Welcome screen appears on the screen, make sure to close applications that are running and then click the <u>Next></u> button.



5. When the display below appears on your screen, Setup is already ready to install and copy the related files onto your hard drive. Click on the Next button to proceed.

Start Copying Files	
	Setup has enough information to start copping the program files. If you want to review or change any settings, click Back. If you are saturited with the settings: click Next to begin copying files. Current Settings: The VIA/53G UniChrome Graphics Win3k Driver Installer will begin copy driver files: A progress log will be recorded in: C:\WINDGW/5\s3setup.log
	< <u>B</u> ack <u>Next></u> Cancel



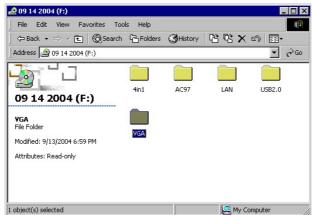
6. After the installation finishes, you will be prompted to restart your system. We recommend you to reboot your computer to allow the new settings to take effect. Click on the Finish button to reboot.



5.1.2 VGA Driver Installation for WIN2K/XP

NOTE: Please make sure you have already installed Service Pack 6.0.

1. With the Utility CD Disk still in your CD ROM drive, open the File Manager and then select the VGA driver folder.



- 😂 VGA _ 🗆 × File Edit View Favorites Tools Help ⇔Back → → ・ 配 @Search 哈Folders 《History 哈 陀 X 応 ■ Address 🧰 VGA WIN98_ME XP_2K VGA XP_2K File Folder Modified: 9/13/2004 6:59 PM Attributes: Read-only 🖳 My Computer 1 object(s) selected
- 2. Select the operating system of your computer to proceed with the installation process.

3. Click on the "Setup.exe" and to go setup.

🚔 XP_2K				_ 0	X
File Edit View Favorites To	ols Help				1
← Back ▾ ⇒ ▾ 🔁 @Search	Folders	CHistory	8 8 × 10) ==-	
Address XP_2K				• 🔗 G	o
	_user1	cleviagi	DATA.TAG	data1	
				HOT	
XP_2K	lang	layout	os	s3hotkey	
SETUP Application	lang	ayout	03	sonockey	
Modified: 9/13/2004 6:59 PM		ر کی	5		
Size: 59.0 KB	s3setup	SETUP	SETUP	setup	
Attributes: Read-only					
	1	1	*		
	setup.iss	setup.lid	vtdisp.dll	VTDispl2.cfg	•
Type: Application Size: 59.0 KB		59.0 KB	🖳 My Comp	uter	_//



4. Once the Welcome screen appears on the screen, make sure to close applications that are running and then click the Next button.



5. When the display below appears on your screen, Setup is already ready to install and copy the related files onto your hard drive. Click on the Next button to proceed.

Start Copy	Setup ha	e encugh information to start nt to review or change any s		
	are satisf	ettings: strings: /536 UniChrome IGP Win29	st to begin copying fil	H.
	2	(Back N	st Caner	



6. After the installation finishes, you will be prompted to restart your system. We recommend you to reboot your computer to allow the new settings to take effect. Click on the **Finish** button to reboot.



5.1.3 VGA Driver Installation for WIN NT4.0

1. Click the **Start** button on the lower left hand corner of your screen, then select **Setting**. Choose **Control Panel** and double-click on the **Display** icon to launch its **Display Properties** window.

Display Properties	? ×
Background Screen Saver Appear	ance Plus! Settings
Color Palette	Desktop Area
16 Colors	Less J More
	640 by 480 pixels
Eont Size	Befresh Frequency
Small Fonts	Use hardware default setting
List All Modes T	est Display <u>Type</u>
0	K Cancel Apply



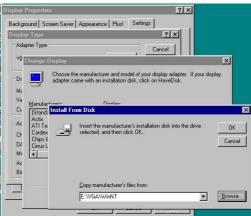
2. Click on the **Settings** tab, and then choose **Display Type**.

3. In the **Change Display Type** window, click on **Have Disk**.

isplay Properties	?×
Background Screen Saver Appearance	e Plus! Settings
Display Type	? ×
Adapter Type	Cancel
^{vg} Change Display	×
Or adapter came with an M V Manufacturers: C [Standard dipplay types] Act Arti ATI Technologies	ier and model of your display adapter. If your display nataliation disk, click on HaveDisk. Display: VGA compatible display adapter
CH Caroex Chips & Technologies D/ Cirrus Logic	
Ac Bic	Have Disk
	OK Cancel



4. Specify the path of the new driver and then press on **Enter**. (If in driver E:, type E:\Vga\WinNT)

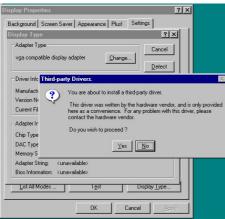


5. Select VIA/S3G UniChrome Graphics, then click OK or press Enter.

Display Proper	ties			? ×	
Background	Screen Saver 🖡	Appearance Plus!	Settings		
Display Type	•		?		
Adapter Typ	be		Cancel		
vg Change	e Display				×
	Change Displa	у			×
Pr 😓	Choo	se the manufacturer a	and model of your	display adapter.	If your display
Ma	dap adap	ter came with an insta	llation disk, click (on HaveDisk.	
Ve <u>M</u> ar					
CL (St	Display:				
Ac Ac	VIA/S3G UniC	hrome Graphics			
Cr Ca Ch					
D/ Cir					
Mt I					
Bic					
				OK	Cancel



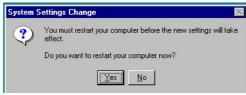
6. You will see warning panel about **Third Party Drivers**. Click on **Yes** to finish the installation.



7. Once the installation is completed, you must shut down the system and restart for the new driver to take effect.

isplay Properties	?×
Background Screen Saver Appearance Plust Settings	
Display Type	× I
Adapter Type vga compatible display adapter Cancel	
Manufact Installing Driver	
Manufact Internations process Version N Current F Adapter Is Chip Type DAC Type	
bite type Memory Stee: (unavailable) Adapter String: (unavailable) Bios Information: (unavailable) List All Modes Igst Utiplay_type	
OK Cancel App	براه

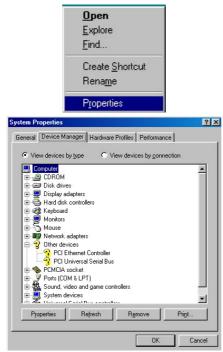
8. Press on the **OK** button as soon as you have located the path of your driver.



5.2 LAN Driver Installation

5.2.1 LAN Driver Installation for WIN95/98/2K

1. With the Utility CD Disk still in your CD ROM drive, right click on My Computer icon from the Windows menu. Select on System Properties and then proceed to the Device Manager from the main menu.



2. Select on PCI Ethernet Controller from Other devices list, right-click and then select on Properties.

System Pi	operties			?)
General	Device Manager	Hardware Profil	es Performance	•
• Vie	w devices by type	C View d	evices by <u>c</u> onnec	tion
in a transformation and transfo		s Protrollet Refresh Rgmove Pript Properties		
Pro	operties R	efresh	Remove	Pri <u>n</u> t
			OK	Cancel

3. The PCI Ethernet Controller Properties screen then appears, allowing you to reinstall the driver. Select Driver from the main menu to proceed.



- 4. The window then displays the current status of your LAN driver. Press on Update Driver button to continue.
- 5. The program will then launch the Update Device Driver Wizard window that will install your device driver. Click on the Next button to proceed to the next step.

	This wizard searches for updated drivers for:
	PCI Ethernet Controller
	A device driver is a software program that makes a hardware device work.
	Upgrading to a newer version of a device driver may improve the performance of your hardware device or add functionality.
~	

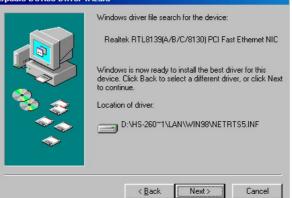
- 6. The Update Device Driver Wizard will then ask you to specify, by ticking, the path of the new driver. Tick on the open boxes where you require the program to search for the device driver then click on the Browse button to manually specify the path. (If in E:, type E:\HS-2606 Driver\LAN\/w/in98)
- 7. Update Device Driver Wizard will ask are you sure to updated driver, tick on update, and then press Next to continue.





8. Once the program detects the device driver (*.inf) file from your specified location, it will automatically copy the files into your hard drive.

Update Device Driver Wizard



9. The program then copies the necessary files from your Windows installation disk to complete the driver setup process. Once the driver is completely installed, the following message appears on your display. Click on the Finish button to proceed.





10. Restart your computer to make the new system settings take effect. Click on the Yes button when the screen below appears and your LAN Driver for Win95 and Win98 are now completely installed.

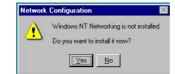


5.2.2 LAN Driver Installation for WIN NT4.0

1. With the Utility CD Disk still in your CD ROM drive, right click on Network Neighborhood icon from the Windows menu. Select on Properties.

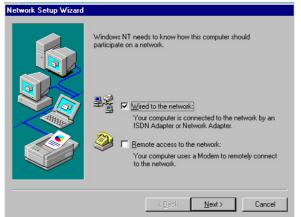


2. The system automatically detects the absence of Windows NT Networking. Click on the Yes button to start installation.





3. Tick on the "Wired to Network" once the following screen appears. Click on the Next to proceed.



4. Click on the Start Search button for the program to locate the Network Adapter.

Network Setup Wizard	To have setup start searching for a Network Adapter, click Start Search button.
	Start Search Network <u>A</u> dapters:
	Select from list
	Cancel



5. Once setup finishes the search, it will list a number of adapters for you to choose from. Press on the Have Disk button to assign the driver path location.



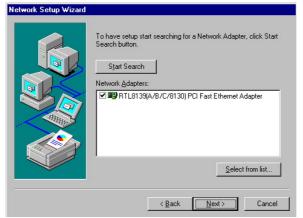
6. Setup now asks you for the location of the driver. When you have entered the new driver path, press on the OK button to continue.

nsert Di	sk	×
#	Insert disk with software provided by the software or hardware manufacturer. If the files can be found at a different location, for example on another drive type a new path to the files below.	OK Cancel
	D:\LAN	

7. When Setup finds the information it needs about the new driver, it will display the device it found on the following screen. Press on the OK button to accept and proceed.

S	elect OEM Option	×
	Choose a software supported by this hardware manufacturer's disk.	
	RTL8139(A/B/C/8130) PCI Fast Ethernet Adapter	1
	OK Cancel <u>H</u> elp	

8. Setup then returns to Network Setup Wizard screen and displays your new Network Adapter. Click on Next to continue.

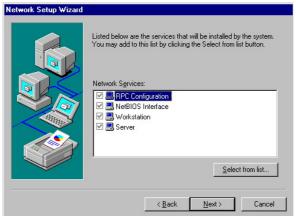


9. The Network Setup Wizard then allows you to set the Network Protocols on your network. Select the appropriate protocol and then click on Next to continue.

Network Setup Wizard	Select the networking protocols that are used on your network. If you are unsure, contact your system administrator.
	Network <u>Protocols</u>
	Select from list



10. The Network Setup Wizard then allows you to set the Network Services on your Network, then click on Next to continue.



11. Before Setup starts installing the components found and the settings you made, it will give you the option to proceed or go back for changes from the following screen. Click on the Next button once you are sure of your devices.

Network Setup Wizard	
	Windows NT is now ready to install networking components that you selected and others required by the system. This process will allow individual components to install themselves and raise dialogs so that they may install correctly.
	Click Next to install selected components. Click Back to make changes to your selections.
	< Back Next > Cancel



12. Windows NT Setup will then need to copy files necessary to update the system information. Specify the path then press Continue.

Windows	NT Setup	>
f	Setup needs to copy some Windows NT files. Setup will look for the files in the location specified below. If you want Setup to look in a different place, type the new location. When the location is correct, click Continue.	Continue Cancel
	G:\\386	

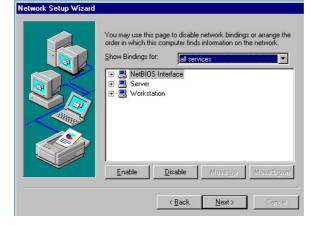
13. Once it finishes copying the files, Setup will now allow you to choose the Duplex Mode of your LAN controller. Press on the Continue button after making your selection.



14. When Setup asks if you wish to change the TCP/IP settings of your system, select the appropriately. The default choice is No.



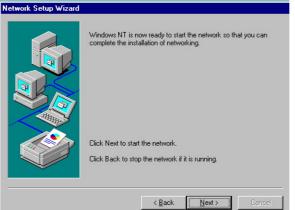
15. When the screen below appears, click on Next to continue.





16. Setup then prompts you that it is ready to start the network. You may complete the installation thereafter. Click on Next to continue.



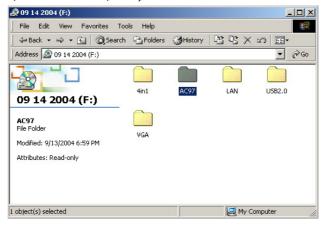


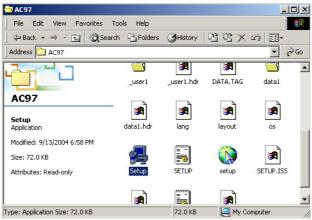
17. Restart your computer. The LAN driver installation for WIN NT4.0 is now complete.

5.3 **Audio Driver Installation**

5.3.1 Audio Driver Installation for WIN98/2K/XP

With the Utility CD Disk still in your CD ROM drive, open the File 1. Manager and then select the driver folder. (If in E:, type E:\HS-2606 Driver\AC97)





2. Press "Setup.exe" and to go setup.

3. Once the Welcome screen appears on the screen, make sure to close applications that are running and then click the Next button.



4. The Select Components dialog box is now displayed. Select on Install driver and then click on Next.



5. After the audio driver installation finishes, select the Finish button to complete the installation process.

Setup Complete	Setup has finished copping files to your computer.	
	Before you can use the program, you must restart Windows or your computer.	
	⁽²⁾ Yee, I want to restart my computer new (² No, 1 will restart my computer later.	
23	Remove any disks from their drives, and then click Finish to complete setup.	
	Clima Fridh	



5.3.2 Audio Driver Installation for WINNT

1. With the Utility CD Disk still in your CD ROM drive, open the File Manager and then select the driver folder. (If in E:, type E:\HS-2606 Driver\AC97)

20	9 14 :	2004 (G:)		_ 🗆 ×
<u>F</u> ile	<u>E</u> dit	⊻iew	<u>H</u> elp		
(4in1		Ac97	Lan	
	Jsb2.0		Vga		
1 obj	ect(s) :	selected	ł		

2. Press "Setup.exe" and to go setup.







3. Once the Welcome screen appears on the screen, make sure to close applications that are running and then click the Next button.

4. The Select Components dialog box is now displayed. Select on VT8233/VT8235 and then click on Next.

|--|



5. After the audio driver installation finishes, select restart computer now, and click the Finish button to complete the installation process.





5.4 USB2.0 Driver Installation

5.4.1 Win 98

1. With the Utility CD Disk still in your CD ROM drive, right click on "**My Computer**" icon from the Windows menu. Select on System Properties and then proceed to the Device Manager from the main menu.



2. Select on Other Devices from the list of devices then double-click on PCI Universal Serial Bus.

ystem Properties	? ×
General Device Manager Hardware Profiles Performance	
View devices by type	
E Computer	- 1
😟 🏩 CDROM	
😟 🚍 Disk drives	
⊞	
Hard disk controllers	
🗈 🥸 Keyboard	
E B Monitors	
⊞	
Wetwork adapters	
E 2 Other devices	
PCMCIA socket	
🕀 🌽 Ports (COM & LPT)	
E Sound, video and game controllers	
E System devices	
🗄 🚭 Universal Serial Bus controllers	
Properties Refresh Remove Print	
OK Ca	ncel



3. The PCI Universal Serial Bus Properties screen then appears, allowing you to re-install the driver. Select Driver from the main menu to proceed.



4. When the dialog box below appears, make sure you close all other Windows applications then click on the **Next >** button to proceed.

Update Device Driver W	fizard
	This wizard searches for updated drivers for:
	PCI Universal Serial Bus
	A device driver is a software program that makes a hardware device work.
	Upgrading to a newer version of a device driver may improve the performance of your hardware device or add functionality.
	< Back Next > Cancel



5. Tick on the "Search for a better driver" once the following screen appears. Click on the **Next** to proceed.



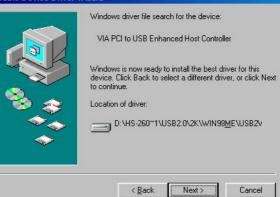
 Once the program returns to the Add New Hardware Wizard screen, your specified location will appear. Press on the <u>Next</u> button to continue.

Update Device Driver	Wizard
	Windows will search for updated drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
	Eloppy disk drives
	CD-ROM drive
	■ Microsoft Windows Update
	🔽 Specify a location:
	D:\HS-2606 Driver\USB2.0\2K\WIN98&ME
	Browse
	•
	< <u>B</u> ack Next > Cancel



 When Setup finds the information it needs about the new driver, it will display the device it found on the following screen. Press on the <u>Next</u> button to accept and proceed.

Update Device Driver Wizard



8. Once the InstallShield Wizard completes the operation and update of your USB2.0 driver. Click on the **<u>F</u>inish** button to complete the installation process.

/izard
VIA PCI to USB Enhanced Host Controller
Windows has finished installing an updated driver for your hardware device.
< Back Finish Cancel



5.4.2 Win 2000

- With the Utility CD Disk still in your CD ROM drive, right click on "My Computer" icon from the Windows menu. Select on System Properties and then proceed to the Device Manager from the main menu.
- 2. Select on Other Devices from the list of devices then double-click on PCI Universal Serial Bus.



3. The PCI Universal Serial Bus Properties screen then appears, allowing you to re-install the driver. Select Driver from the main menu to proceed.

niversal	Serial Bus (USB)	Controller Properties	? ×
General	Driver Resource	es	
2	Universal Serial B	lus (USB) Controller	
	Driver Provider:	Unknown	
	Driver Date:	Not available	
	Driver Version:	Not available	
	Digital Signer:	Not digitally signed	
this dev	rice, click Update D	iriver.	-
-	Driver Deteils		
		OK Canc	el

4. When the dialog box below appears, make sure you close all other Windows applications then click on the **<u>Next</u> >** button to proceed.



5. Tick on the "Search for a suitable driver" once the following screen appears. Click on the **<u>N</u>ext** to proceed.

nstall Hardware Device Drivers A device driver is a software program that an operating system.	enables a hardware device to work with
This wizard upgrades drivers for the follow	ving hardware device:
Universal Serial Bus (USB) Cont	roller
	driver may add functionality to or improve the
performance of this device.	
What do you want the wizard to do?	
	device (recommended)
What do you want the wizard to do?	device (recommended) or this device so that I can choose a specific
 What do you want the wizard to do? Search for a suitable driver for my o Display a list of the known drivers f 	



 Once the program returns to the Add New Hardware Wizard screen, your specified location will appear. Press on the <u>Next</u> button to continue.



7. Choose sisusb2.inf and press on the **Open** button to accept and proceed.

Locate File					? ×
Look in:	🔄 WIN2K		-	🗢 🗈 💣 🎫	
History Desktop My Documents My Computer	isi sisusb2 isj usb2				
	File name:	sisusb2.inf		•	Open
My Network P	Files of type:	Setup Information (".inf)		7	Cancel



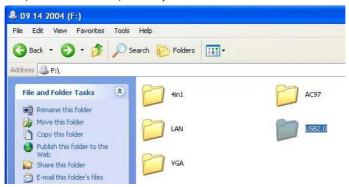
8. Once the InstallShield Wizard completes the operation and update of your USB2.0 driver. Click on the **<u>F</u>inish** button to complete the installation process.

Update Device Driver Wizard



5.4.3 Win XP

 With the Utility CD Disk still in your CD ROM drive, open the File Manager and then select the driver folder. (If in E:, type E:\HS-2606 Driver\USB2.0)







2. Click on "Setup.exe" and to go setup.

 When the dialog box below appears, make sure you close all other Windows applications then click on the <u>Next</u> > button to proceed.

	NF file (Version 5.1.2600.1106)	
	icana 🔀	
1	Welcane to the VA USB 2.8 Driver Setup program. The program will exited VA USB 2.9 Driver on your computer.	
	E is storigh reconserved that pos end all Windows programs before narreg this Singa program.	
	Cick Cancel In gal Setup and then close any program you News suming. Cick Neel to continue with the Setup program.	
	WATING. The popular is potected by copyright law and retenatored heater.	
	Unauthorized reproduction or distribution of the program, or any potion of it, may result in severe civil and central penalities, and will be prosecuted to the maximum entert possible under law	
	Net > Cardel	

- VIA Technologies, Inc. VIA USB 2-0 Driver - Version 2-58 (Lite) VIA WINXP-SPI USB 2-0 INF file (Version 5.1.2600.1106)
- 4. The programs starts to install the USB2.0 driver when you click the Next> button on the screen below.

5. Once the InstallShield Wizard completes the operation and update of your USB2.0 driver. Click on the **Yes** button to restart computer to complete the installation process.

	Warning message:		
0	In order to complete th		
4	this setup program will		m automatically
	Do you want to continu	le?	

