HS-2607

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

Copyright Disclaimers

The accuracy of contents in this manual has passed thorough checking and review before publishing. BOSER Technology Co., Ltd., the manufacturer and publisher, is not liable for any infringements of patents or other rights resulting from its use. The manufacturer will not be responsible for any direct, indirect, special, incidental or consequential damages arising from the use of this product or documentation, even if advised of the possibility of such damage(s).

This manual is copyrighted and BOSER Technology Co., Ltd. reserves all documentation rights. Unauthorized reproduction, transmission, translation, and storage of any form and means (i.e., electronic, mechanical, photocopying, recording) of this document, in whole or partly, is prohibited, unless granted permission by BOSER Technology Co., Ltd.

BOSER Technology Co., Ltd. reserves the right to change or improve the contents of this document without due notice. BOSER Technology Co., Ltd. assumes no responsibility for any errors or omissions that may appear in this manual, nor does it make any commitment to update the information contained herein.

Trademarks

BOSER is a registered trademark of BOSER Technology Co., Ltd. ISB is a registered trademark of BOSER Technology Co., Ltd.

Intel is a registered trademark of Intel Corporation.

Award is a registered trademark of Award Software, Inc.

AMI is a registered trademark of AMI Software, Inc.

All other trademarks, products and or product names mentioned herein are mentioned for identification purposes only, and may be trademarks and/or registered trademarks of their respective companies or owners.



© Copyright 2007 BOSER Technology Co., Ltd. All Rights Reserved. Edition 1.3, December 05, 2007

Table of Contents

Chapte	r 1 General Description	1
1.1	Major Features	
1.2	Specifications	3
1.3	Board Dimensions	4
~ ~		_
Chapte	r 2 Unpacking	5
2.1	Opening the Delivery Package	5
2.2	Inspection	5
Chapte	r 3 Hardware Installation	7
3.1	Before Installation	7
3.2	Board Layout	8
3.3	Jumper List	
3.4	Connector List	9
3.5	Configuring the CPU	
3.6	System Memory1	0
3.7	CMOS Data Clear1	0
3.8	Power and Fan Connectors1	0
3.9	System Front Panel Control 1	1
	VGA Controller 1	1
3.11	TV-Out Connector 1	3
3.12	Ethernet Connector1	3
3.13	Audio Connectors 1	4
3.14	PCI E-IDE Drive Connector1	5
3.15	Serial Port Connectors1	6
3.16	USB Connector 1	6
3.17	Keyboard/Mouse Connectors1	7
	Mini PCI Slot1	
3.19	CompactFlash™ Connector1	7

Chapter 4 Award BIOS Setup	.19
4.1 Starting Setup	19
4.2 Using Setup	
4.3 Main Menu	
4.4 Standard CMOS Features	22
4.5 Advanced BIOS Features	23
4.6 Advanced Chipset Features	24
4.7 Integrated Peripherals	
4.8 Power Management Setup	28
4.9 PnP/PCI Configurations	29
4.10 Frequency/Voltage Control	30
Chapter 5 Software Utilities	.31
5.1 VGA Driver Installation	31
5.2 LAN Driver Installation	41
5.3 Audio Driver Installation	
5.4 USB2.0 Driver Installation	57

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-2607 is a 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-2607 an ideal all-in-one industrial single board computer. Additional features include an enhanced I/O with CompactFlash reader, CRT/Panel, audio, dual LAN, TV-Out, 4 COM, and USB2.0 interfaces.

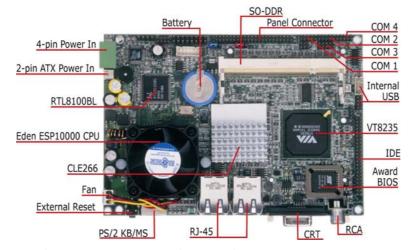
Its onboard ATA/33/66/100 to IDE drive interface architecture allows the HS-2607 to support data transfers of 33, 66 or 100MB/sec. To one IDE drive connection. Designed with the VIA CLE266/VT8235 core logic chipset, the board supports VIA Eden 1GHz Embedded CPU. The VIA CLE266 integrated S3 3D supports CRT/Panel displays up to 1600 x 1200 at 32-bit.

HS-2607 offers CompactFlash reader in addition. +7~+26V wide range single DC power in can make HS-2607 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 two external RJ-45 connectors for 10/100 Based Ethernet use.

1.1 Major Features



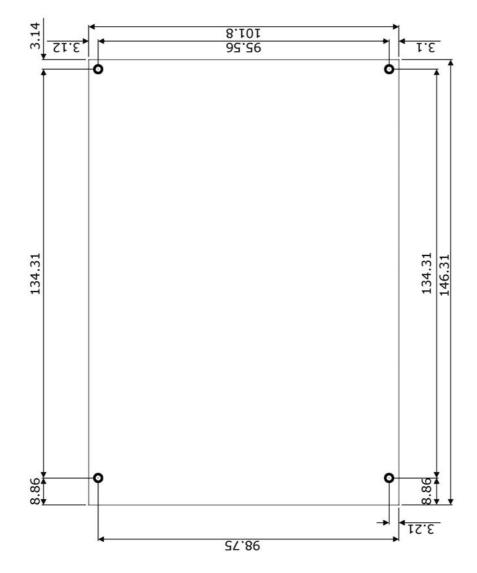
The HS-2607 comes with the following features:

- VIA Eden processor 1GHz
- One SO-DDR socket with a max. capacity of 1GB
- VIA CLE266/VT8235 chipset
- Winbond W83697UF super I/O chipset
- > VIA CLE266 graphics controller
- Dual RealTek RTL8100BL Ethernet controller
- AC97 3D audio controller
- Fast PCI ATA/33/66/100 IDE controller
- > CF, 4 COM, 4 USB2.0
- > +7~+26V wide range single DC power in
- > TV-Out function (optional)



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: Type I/II IDE interface adapter x 1
- PCI Slot: Type I mini PCI slot x 1
- VGA: VIA CLE266 integrated S3 3D supports AGP Bus and Hardware MPEG-2
- TV-Out: Supports PAL or NTSC TV system (optional)
- Ethernet: Dual RealTek RTL8100BL 10/100 Based LAN
- Audio: AC97 3D audio controller
- IDE: 2.0-pitch 44-pin IDE connector x 1
- 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-2607 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-2607 delivery package contains the following items:

- HS-2607 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	RS-232 cable x 4				
5	PS/2 KB/MS transfer cable x 1				
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

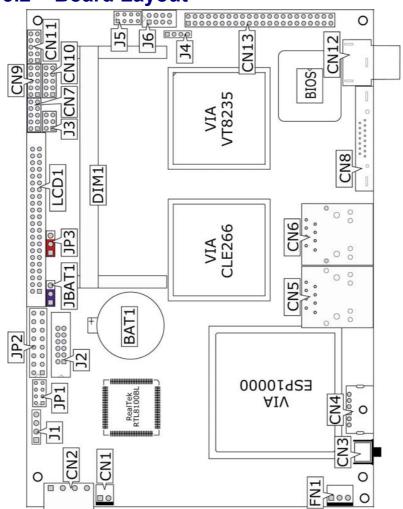
Hardware Installation

This chapter provides the information on how to install the hardware using the HS-2607. 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.



3.2 Board Layout

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	12

3.4 Connector List

Connector	Definition	Page
CN1	2-pin ATX Power Control	10
CN2	4-pin DC Power In Connector	10
CN3	External Reset Button	
CN4	PS/2 6-pin Mini DIN KB/MS Connector	17
CN5/CN6	RJ-45 Connector	14
CN7/CN9/CN10/CN11	COM 1~COM 4 Connector (5x2 header)	16
CN8	15-pin CRT Connector	12
CN12	RCA Connector	13
CN13	IDE Connector	15
CN14	CompactFlash Connector	20
DIM1	SO-DDR Socket	10
FN1	Fan Power In Connector	10
J1	Line In Connector	14
J5/J6	USB Connector	17
JP1	MIC In/Line Out Connector	14
JP2	System Front Panel Control	11
LCD1	LVDS Panel Connector	12
PC1 Mini PCI Connector		18

3.5 Configuring the CPU

The HS-2607 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-2607 provides one 200-pin SO-DDR socket at locations *DIM1*. The maximum capacity of the onboard memory is 512MB.

3.7 CMOS Data Clear

The HS-2607 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-2607 provides one 4-pin power connector at *CN2*. And one 2-pin ATX power in at *CN1*. Connector FN1 onboard HS-2607 is a 3-pin fan power output connector. And HS-2607 supports +5V fan only.

• CN1: 2-pin ATX Power Control

PIN	Description	
1	PS_ON	
2	5VSB	1 2

• CN14: 4-pin DC Power In Connector

PIN	Description	
1	+7~+26V	
2	GND	

17 1200		
GND		<u>) ()</u>
GND	1	4
+7~+26V		

• FN1: Fan Power In Connector

3

PIN	Description	
1	GND	
2	+5V	1 0 0 3
3	N/C	

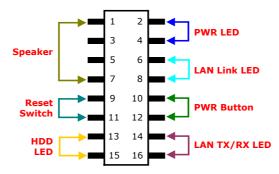
3.9 System Front Panel Control

The HS-2607 has system front panel control at location JP2.

• JP2: System Front Panel Control

PIN	Description	PIN Description			
1	VCC	2	330 Ω Pull +5V		
3	GND	4 GND		GND 4 G	
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 LE			
15	HDD LED	2+	GND		

Connector JP2 Orientation



3.10 VGA Controller

The HS-2607 provides two connection methods of a VGX device. *CN8* 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-2607 also provides Hardware MPEG-2.

• CN8: 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	ENAVEE	8	GND	
9	GFPD0	10	GFPD1	100 2 00
11	GFPD2	12	GFPD3	
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-2607 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-2607 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).

• CN12: RCA Connector (for TV-Out function)

PIN	N Description			
1	SPDIFO			
2	GND			
3	GND			
4	GND			

3.12 Ethernet Connector

The HS-2607 provides two external RJ-45 interface connectors. Please refer to the following for its pin information.

• CN5/CN6: RJ-45 Connector

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

3.13 Audio Connectors

The HS-2607 has an onboard AC97 3D audio controller. The following tables list the pin assignments of the Line In/Audio Out connector.

• JP1: 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

PIN	Description	PIN	Description	5
1	LINE R	2	GND	
3	GND	4	LINE L	Ċ

3.14 PCI E-IDE Drive Connector

CN12 is a standard 44-pin 2.0-pitch connector daisy-chain driver connector serves the PCI E-IDE drive provisions onboard the HS-2607. A maximum of two ATA/33/66/100 IDE drives can be connected to the HS-2607 via CN13.

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

• CN13: IDE Connector

3.15 Serial Port Connectors

The HS-2607 offers NS16C550 compatible UARTs with Read/ Receive 16-byte FIFO serial ports and internal 10-pin headers.

• CN7/CN9~CN11: COM 1~COM 4 Connector (5x2 Header)

PIN	Description	PIN	Description	
1	DCD	2	DSR	
3	RXD	4	RTX	9 1 00000 00000
5	TXD	6	CTX	10 2
7	DTR	8	RI	10 2
9	GND	10	N/C	

3.16 USB Connector

The HS-2607 provides two 8-pin connectors, at location J5 and J6, for four USB2.0 ports to the HS-2607.

• J5/J6: 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 connection via CN4 for an external PS/2 type KB/MS.

• CN4: PS/2 6-pin Mini DIN KB/MS Connector

PIN	Description	
1	Keyboard Data	
2	Mouse Data	6
3	GND	4
4	+5V	200
5	Keyboard Clock	
6	Mouse Clock	

3.18 Mini PCI Slot

HS-2607 supports a mini PCI connector. 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.

3.19 CompactFlash™ Connector

The HS-2607 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 *CN14* 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.



This page is the blank page.

Chapter 4

Award BIOS Setup

The HS-2607 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.

Phoenix – AwardBIOS	CMOS	Setup	Utility
---------------------	------	-------	---------

 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

	Stanuaru Ci	105 I Cuture		
Date (mm:dd:yy)	Mon, Aug 9 2004			Item Help
Time (hh:mm:ss)	10:32:57			
IDE Primary Master	[Auto]			
IDE Primary Slave	[Auto]			
► IDE Secondary Maste	er [Auto]			
IDE Secondary Slave	[Auto]			
Video	[EGA/VG	A]		
Halt On	[All, But	Keyboard]		
Base Memory	64	ОK		
Extended Memory	5632	ОK		
Total Memory	5734	4K		
$\uparrow \downarrow \leftarrow \rightarrow$: Select Item	+/-/PU/PD: Value	F10: Save	Esc: Quit	F1: General Help
F5: Previous Values	F6: Fail-Sa	fe Defaults	F7: (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

7.0	vunceu entos reut	
Virus Warning	[Disabled]	Item Help
CPU Internal Cache	[Enabled]	
External Cache	[Enabled]	
CPU L2 Cache ECC Checking	[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]	
Video BIOS Shadow	[Enabled]	
Small Logo(EPA) Show	[Enabled]	
\uparrow ↓ ← →: Select Item +/-/PU/	PD: Value F10: Sav	ve Esc: Quit F1: General Help
F5: Previous Values	F6: Fail-Safe Defaults	F7: Optimized 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.

Aut	anced Chipset Featur	105	
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	[Auto Mode]		
TV_Layout	[Default]		
Panel Type	[00]		
\uparrow ↓ ← →: Select Item +/-/PU/	PD: Value F10: Save	Esc: Quit	F1: General Help
F5: Previous Values	F6: Fail-Safe Defaults	F7: 0	ptimized Defaults
Phoenix -	- AwardBIOS CMOS Setu	up Utility	
	- AwardBIOS CMOS Setu AM Clock/Drive Conti	• •	
		• •	Item Help
DR	AM Clock/Drive Contr	• •	
DR Current FSB Frequency	AM Clock/Drive Contr 133MHz	• •	
DR Current FSB Frequency Current DRAM Frequency	AM Clock/Drive Contr 133MHz 133MHz	• •	
DR Current FSB Frequency Current DRAM Frequency DRAM Clock	AM Clock/Drive Contr 133MHz 133MHz [By PSD]	• •	
DR Current FSB Frequency Current DRAM Frequency DRAM Clock DRAM Timing	AM Clock/Drive Contr 133MHz 133MHz [By PSD] [By PSD]	• •	
DR Current FSB Frequency Current DRAM Frequency DRAM Clock DRAM Timing DRAM CAS Latency	AM Clock/Drive Contr 133MHz 133MHz [By PSD] [By PSD] 2.5	• •	
DR Current FSB Frequency Current DRAM Frequency DRAM Clock DRAM Timing DRAM CAS Latency Bank Inter leave	AM Clock/Drive Contr 133MHz 133MHz [By PSD] [By PSD] 2.5 Disabled	• •	
DR Current FSB Frequency Current DRAM Frequency DRAM Clock DRAM Timing DRAM CAS Latency Bank Inter leave Precharge to Active (Trp)	AM Clock/Drive Contr 133MHz 133MHz [By PSD] [By PSD] 2.5 Disabled 3T	• •	
DR Current FSB Frequency Current DRAM Frequency DRAM Clock DRAM Timing DRAM CAS Latency Bank Inter leave Precharge to Active (Trp) Active to Precharge (Tras)	AM Clock/Drive Contr 133MHz 133MHz [By PSD] [By PSD] 2.5 Disabled 3T 6T	• •	
DR Current FSB Frequency Current DRAM Frequency DRAM Clock DRAM Timing DRAM CAS Latency Bank Inter leave Precharge to Active (Trp) Active to Precharge (Tras) Active to CMD (Tred) DRAM Command Rate	AM Clock/Drive Contr 133MHz 133MHz [By PSD] 2.5 Disabled 3T 6T 3T	• •	

Phoenix – AwardBIOS CMOS Setup Utility Advanced Chipset Features

Phoenix – AwardBIOS CMOS Setup Utility	
AGP & P2P Bridge Control	

	All all zi bhage con		
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 Write	[Disabled]		
AGP Master 1 WS Read	[Disabled]		
\uparrow ↓ ← →: Select Item +/-/	/PU/PD: Value F10: Save	Esc: Q	uit F1: General Help
F5: Previous Values	F6: Fail-Safe Defaults	F7	': Optimized Defaults
Phoer	nix – AwardBIOS CMOS Se	tup Utilit	y
	CPU & PCI Bus Contr	ol	
CPU to PCI Write Buffer	[Enabled]		Item Help
PCI Master 0 WS Write	[Enabled		
PCI Delay Transaction	[Disabled]		
	[=]		
	[]		
	[]		
	[]		
	[]		
	[]		
	[]		
	[]		
$\uparrow \downarrow \leftarrow \rightarrow: \text{Select Item} +/-/$	/PU/PD: Value F10: Save	Esc: Q	uit F1: General Help

Integrated Peripherals Phoenix – AwardBIOS CMOS Setup Utility 4.7

11100	egrated Peripherals	;	
VIA OnChip IDE Device	[Press Enter]		Item Help
VIA OnChip PCI Device	[Press Enter]		
Super IO Device	[Press Enter]		
GPIO Pin 8-11 I/O Program	[Input]		
GPO 8 High/Low State	Low		
GPO 9 High/Low State	Low		
GPO 10 High/Low State	Low		
GPO 11 High/Low State	Low		
Init Display First	[PCI Slot]		
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 F10: Save	Esc: Quit	F1: General Help
F5: Previous Values F6	6: Fail-Safe Defaults	F7: Op	otimized Defaults
	wardBIOS CMOS Setu	. ,	
VIA	OnChip IDE Device	5	
OnChip IDE Channel0			
	[Enabled]		Item Help
OnChip IDE Channel1	[Enabled] [Enabled]		Item Help
•			Item Help
OnChip IDE Channel1	[Enabled]		Item Help
OnChip IDE Channel1 IDE Prefetch Mode	[Enabled] [Enabled]		Item Help
OnChip IDE Channel1 IDE Prefetch Mode Primary Master PIO	[Enabled] [Enabled] [Auto]		Item Help
OnChip IDE Channel1 IDE Prefetch Mode Primary Master PIO Primary Slave PIO	[Enabled] [Enabled] [Auto] [Auto]		Item Help
OnChip IDE Channel1 IDE Prefetch Mode Primary Master PIO Primary Slave PIO Secondary Master PIO	[Enabled] [Enabled] [Auto] [Auto] [Auto]		Item Help
OnChip IDE Channel1 IDE Prefetch Mode Primary Master PIO Primary Slave PIO Secondary Master PIO Secondary Slave PIO	[Enabled] [Enabled] [Auto] [Auto] [Auto] [Auto] [Auto]		Item Help
OnChip IDE Channel1 IDE Prefetch Mode Primary Master PIO Primary Slave PIO Secondary Master PIO Secondary Slave PIO Primary Master UDMA	[Enabled] [Enabled] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto]		Item Help
OnChip IDE Channel1 IDE Prefetch Mode Primary Master PIO Primary Slave PIO Secondary Master PIO Secondary Slave PIO Primary Master UDMA Primary Slave UDMA	[Enabled] [Enabled] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto]		Item Help
OnChip IDE Channel1 IDE Prefetch Mode Primary Master PIO Primary Slave PIO Secondary Master PIO Secondary Slave PIO Primary Master UDMA Primary Slave UDMA Secondary Master UDMA	[Enabled] [Enabled] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto]		Item Help
OnChip IDE Channel1 IDE Prefetch Mode Primary Master PIO Primary Slave PIO Secondary Master PIO Secondary Slave PIO Primary Master UDMA Primary Slave UDMA Secondary Master UDMA Secondary Slave UDMA	[Enabled] [Enabled] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto]		Item Help
OnChip IDE Channel1 IDE Prefetch Mode Primary Master PIO Primary Slave PIO Secondary Master PIO Secondary Slave PIO Primary Master UDMA Primary Slave UDMA Secondary Master UDMA IDE HDD Block Mode	[Enabled] [Enabled] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Enabled]	Esc: Quit	
OnChip IDE Channel1 IDE Prefetch Mode Primary Master PIO Primary Slave PIO Secondary Master PIO Secondary Slave PIO Primary Master UDMA Primary Slave UDMA Secondary Master UDMA IDE HDD Block Mode	[Enabled] [Enabled] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Enabled]	Esc: Quit	Item Help F1: General Help timized Defaults

VIA-3058 AC97 Audio	[Au	to]		Item Help
OnChip USB Controller	[All Enabled]			
OnChip EHCI Controller	[Ena	[Enabled]		
USB Keyboard Support	[Ena	abled]		
USB Mouse Support	[Dis	abled]		
$\uparrow \downarrow \leftarrow \rightarrow$: Select Item +/-/I	PU/PD: Value	F10: Save	Esc: Quit	F1: General Help
F5: Previous Values	F6: Fail-Saf	fe Defaults	F7: 0	ptimized Defaults
Phoen	x – AwardBIO	S CMOS Setu	up Utility	
	Super IC) Device		
Onboard Serial Port 1	[3F8	8/IRQ4]		Item Help
Onboard Serial Port 2	[2F8	8/IRQ3]		
UART Mode Select	[No	rmal]		
RxD , TxD Active	[Hi,Lo]			
IR Transmission Delay	[Enabled]			
UR2 Duplex Mode	 [Half]			
Use IR Pins	[IR-Rx2Tx2]			
Midi Port Address	[330]			
Midi Port IRQ	5			
$\uparrow \downarrow \leftarrow \rightarrow$: Select Item +/-/I	PU/PD: Value F10: Save		Esc: Quit	F1: General Help
F5: Previous Values	F6: Fail-Saf	fe Defaults	F7: 0	ptimized Defaults

Phoenix – AwardBIOS CMOS Setup Utility VIA OnChip PCI Device

Power Management Setup 4.8

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.

Phoenix – AwardBIOS CMOS Setup Utility				
Power I	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 Esc: Qu	it F1: General Help		
F5: Previous Values F6:	Fail-Safe Defaults F7:	: Optimized Defaults		
	*			
	ardBIOS CMOS Setup Utility	,		
Phoenix – Awa	ardBIOS CMOS Setup Utility ent Activity Detect	,		
Phoenix – Awa	, , ,	Item Help		
Phoenix – Awa IRQ/Ev	ent Activity Detect			
Phoenix – Awa IRQ/Ev PS2KB Wakeup Select	(Hot Key]			
Phoenix – Awa IRQ/Ev PS2KB Wakeup Select PS2KB Wakeup from S3/S4/S5	Yent Activity Detect [Hot Key] [Disabled]			
Phoenix – Awa IRQ/Ev PS2KB Wakeup Select PS2KB Wakeup from S3/S4/S5 Power Button Lock	Yent Activity Detect [Hot Key] [Disabled] Enabled			
Phoenix – Awa IRQ/Ev PS2KB Wakeup Select PS2KB Wakeup from S3/S4/S5 Power Button Lock PS2MS Wakeup from S3/S4/S5	Yent Activity Detect [Hot Key] [Disabled] Enabled [Disabled]			
Phoenix – Awa IRQ/Ev PS2KB Wakeup Select PS2KB Wakeup from S3/S4/S5 Power Button Lock PS2MS Wakeup from S3/S4/S5 USB Resume from S3	Yent Activity Detect [Hot Key] [Disabled] Enabled [Disabled] [Disabled]			
Phoenix – Awa IRQ/Ev PS2KB Wakeup Select PS2KB Wakeup from S3/S4/S5 Power Button Lock PS2MS Wakeup from S3/S4/S5 USB Resume from S3 VGA	Yent Activity Detect [Hot Key] [Disabled] Enabled [Disabled] [Disabled] [OFF]			
Phoenix – Awa IRQ/Ev PS2KB Wakeup Select PS2KB Wakeup from S3/S4/S5 Power Button Lock PS2MS Wakeup from S3/S4/S5 USB Resume from S3 VGA LPT & COM	Yent Activity Detect [Hot Key] [Disabled] Enabled [Disabled] [Disabled] [OFF] [LPT/COM]			
Phoenix – Awa IRQ/Ev PS2KB Wakeup Select PS2KB Wakeup from S3/S4/S5 Power Button Lock PS2MS Wakeup from S3/S4/S5 USB Resume from S3 VGA LPT & COM HDD & FDD	Yent Activity Detect [Hot Key] [Disabled] Enabled [Disabled] [Disabled] [OFF] [LPT/COM] [ON]			
Phoenix – Awa IRQ/Ev PS2KB Wakeup Select 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	Yent Activity Detect [Hot Key] [Disabled] Enabled [Disabled] [Disabled] [OFF] [LPT/COM] [ON] [OFF]			
Phoenix – Awa IRQ/Ev PS2KB Wakeup Select 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	rent Activity Detect [Hot Key] [Disabled] Enabled [Disabled] [Disabled] [OFF] [LPT/COM] [ON] [OFF] [Disabled]			
Phoenix – Awa IRQ/Ev PS2KB Wakeup Select 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	Yent Activity Detect [Hot Key] [Disabled] Enabled [Disabled] [Disabled] [OFF] [LPT/COM] [ON] [OFF] [Disabled] [Disabled]			
Phoenix – Awa IRQ/Ev PS2KB Wakeup Select 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	Yent Activity Detect [Hot Key] [Disabled] Enabled [Disabled] [Disabled] [OFF] [LPT/COM] [ON] [OFF] [Disabled] [Disabled] [Disabled]			

[Press Enter]

F7: Optimized Defaults

 $\uparrow \downarrow \leftarrow \rightarrow: \text{Select Item} \quad +/\text{-/PU/PD: Value} \qquad \text{F10: Save} \quad \text{Esc: Quit} \quad \text{F1: General Help}$

F6: Fail-Safe Defaults

Phoenix – AwardBIOS CMOS Setup Utility

28

IRQs Activity Monitoring

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	ingurations			
PNP OS Installed	[No	p]			Item Help
Reset Configuration	Data [Di	sabled]			
Resources Controlled	d By [Au	ito(ESCD)]			
IRQ Resources	Pre	ess Enter			
PCI/VGA Palette Sno	oop [Di	sabled]			
Assign IRQ For VGA	[Er	nabled]			
Assign IRQ For USB	[Er	nabled]			
\uparrow ↓ ← →: Select Item	+/-/PU/PD: Value	F10: Save	Esc: Q	uit	F1: General Help
F5: Previous Values	F6: Fail-Sa	fe Defaults	F	7: Opti	imized Defaults

4.10 Frequency/Voltage Control

Phoenix – AwardBIOS CMOS Setup Utility Frequency/Voltage Control

	Frequency/Voltage Cont	rol
VIA C3 Clock Ratio	[Default]	Item Help
Auto Detect DIMM/PCI C	lk [Enabled]	
Spread Specturm	[Disabled]	
CPU Host/PCI Clock	[Default]	
$\uparrow \downarrow \leftarrow \rightarrow$: Select Item +/-,	/PU/PD: Value F10: Save	Esc: Quit F1: General Help
F5: Previous Values	F6: Fail-Safe Defaults	F7: Optimized Defaults
· · · · · · · · · · · · · · · · · · ·		

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 $\underline{\bf Next} >$ 4. button.



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. 5. 👉 Sel

ini.

Start Copying Files	
	Setup has enough information to start copping the program files. If you want to review of change any settings, click Bock. If you are satisfied with the settings, click Next to begin copying files. Current Settings: The VIA/>33B UnChrome Graphics Win3x Driver Installer will begin copy driver files. A progress log will be recorded in: C:\winbDWS\s3stetup.log
	< <u>B</u> ack <u>Next></u> Cancel



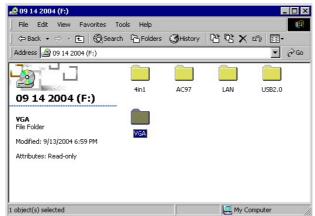
6. After the installation finishes, you will be prompted to restart your system. We recommend you to reboot your computer to allow the new settings to take effect. Click on the Finish button to reboot.



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 Type
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 Att 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)

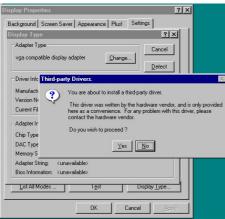


5. Select VIA/S3G UniChrome Graphics, then click OK or press Enter.

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



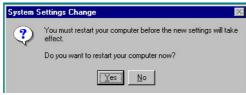
6. You will see warning panel about **Third Party Drivers**. Click on **Yes** to finish the installation.



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

isplay Properties	<u>?×</u>
Background Screen Saver Appearance Plus! Settings	
Display Type	<u>د</u>
Adapter Type vga compatible display adapter Cancel	
Manufact Installing Driver	
Version N Current Fi Adapter In The drivers were successfully installed. You must exit from the Display Properties windo for the changes to take effect.	ow and reboot in order
Chip Type DAC Type	
Memory Size: <unavailable> Adapter String: <unavailable></unavailable></unavailable>	
Bios Information: <unavailable></unavailable>	
List All Modes Igst Display Lype	╧║
OK Cancel App	ly I

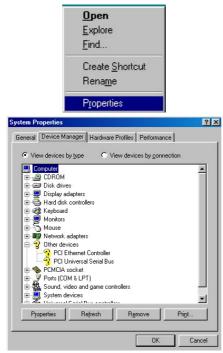
8. Press on the **OK** button as soon as you have located the path of your driver.



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.

	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.
~	

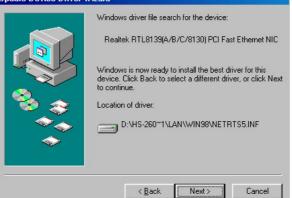
- 6. The Update Device Driver Wizard will then ask you to specify, by ticking, the path of the new driver. Tick on the open boxes where you require the program to search for the device driver then click on the Browse button to manually specify the path. (If in E:, type E:\HS-2607 Driver\LAN\/w/in98)
- 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.

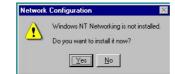


5.2.2 LAN Driver Installation for WIN NT4.0

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.

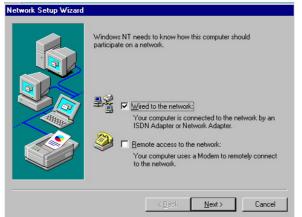


2. The system automatically detects the absence of Windows NT Networking. Click on the Yes button to start installation.





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.
	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.



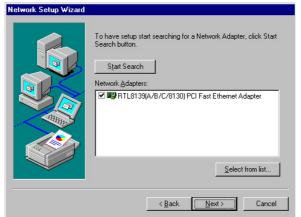
6. Setup now asks you for the location of the driver. When you have entered the new driver path, press on the OK button to continue.

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	
	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.

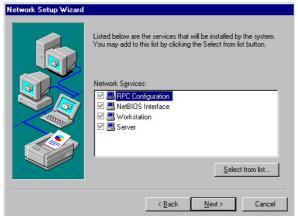


9. The Network Setup Wizard then allows you to set the Network Protocols on your network. Select the appropriate protocol and then click on Next to continue.

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	

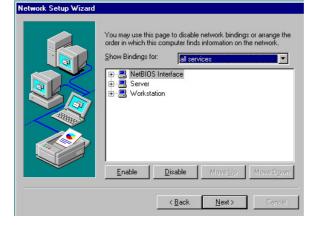
13. Once it finishes copying the files, Setup will now allow you to choose the Duplex Mode of your LAN controller. Press on the Continue button after making your selection.



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



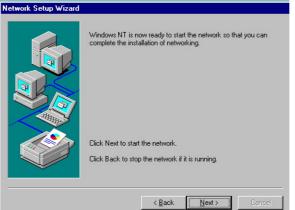
15. When the screen below appears, click on Next to continue.





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



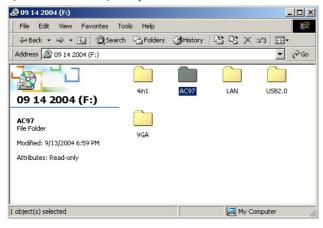


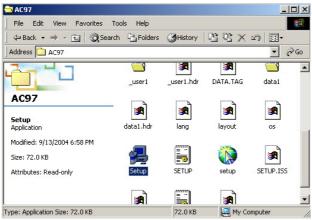
17. Restart your computer. The LAN driver installation for WIN NT4.0 is now complete.

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-2607 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.

Welcome	×	
	Webserb to the VMA Audo Dene Stells Program Dene Stells Program in synar computer Dene Stells Program in synarches de la computer Dene Stells Program in synarches de la computer and Dene Stells Program in synarches de la computer and here Dene Stells Program in synarches de la computer and here. Dene Stells De la mename meter and en computer and here.	
	Next Careet	



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 copying files to your computer.	
	Before you can use the program, you must restart Windows or your computer.	
	Yes, I want to restart my computer now	
	C No, 1 will restart my computer later.	
	Remove any doks from their drives, and then click Finish to complete retup.	
	Click Frith	



5.3.2 Audio Driver Installation for WINNT

 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-2607 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.

IA Technologies, IA Al ^{Select Components}	Instal/Uninstall Windows NT Audin driver	
	 C 686A/686B/6231/6231A ○ VT8223X/T62265 ○ Intel ICH/ICH0/ICH3/ICH4 Driver C 5/6 363 Driver 	
	<back next=""> Cancel</back>	



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 C View devices by connection	
Conjoure COROM Conjoure Coron Coron	
Properties Refresh Rgmove Print	
OK Cano	el



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.



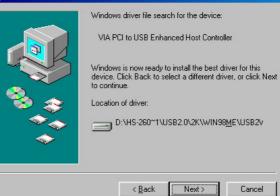
 Once the program returns to the Add New Hardware Wizard screen, your specified location will appear. Press on the <u>Next</u> button to continue.

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>Finish</u>** button to complete the installation process.

Update Device Driver V	√izard
	VIA PCI to USB Enhanced Host Controller
	Windows has finished installing an updated driver for your hardware device.
8	
	K 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.

Universal	Serial Bus (USB)	Controller Properties	? ×
General	Driver Resource	es	
2	Universal Serial B	us (USB) Controller	
	Driver Provider:	Unknown	
	Driver Date:	Not available	
	Driver Version:	Not available	
	Digital Signer:	Not digitally signed	
the driv		or have been loaded for this e, click Uninstall. To update river.	
		OK	Cancel



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.	t enables a hardware device to work with
This wizard upgrades drivers for the follow	ving hardware device:
Universal Serial Bus (USB) Con	troller
	driver may add functionality to or improve the
performance of this device.	
performance of this device. What do you want the wizard to do?	
	device (recommended)
What do you want the wizard to do?	device (recommended) for this device so that I can choose a specific
 What do you want the wizard to do? © Search for a suitable driver for my © Display a list of the known drivers 	

 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	屬 sisusb2 屬 usb2				
My Computer	File name: Files of type:	sisusb2.inf Setup Information (*.inf)		× ×	Open Cancel



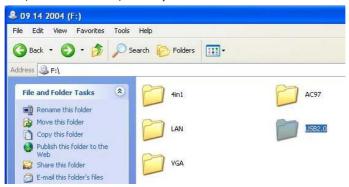
8. Once the InstallShield Wizard completes the operation and update of your USB2.0 driver. Click on the **<u>F</u>inish** button to complete the installation process.

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-2607 Driver\USB2.0)







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

3. 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	
	in the second	



- 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.

	111 march a second second	
(2)	Warning message: In order to complete the entire	driver installation
4	this setup program will restart y	
		our system automatically
	Do you want to continue?	
	Do you want to continue?	
	Do you want to continue?	

