HS-2606

ULV Intel® Celeron® processor Embedded Engine Board • CompactFlash • PCMCIA • Mini PCI • • SO-DDR • CRT/Panel • TV-Out • LAN • Audio • • ATA/33/66/100 • 4 COM • USB2.0 • WDT • • Industrial Embedded Engine Board •

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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 HS-2606 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.

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Chapter 1

General Description



The HS-2606 is a 100MHz FSB VIA CLE266/VT8235 chipset-based board designed for ULV Intel® Celeron® processor 400/650MHz. These features combine and make the HS-2606 an ideal all-in-one industrial single board computer. Additional features include an enhanced I/O with CompactFlash reader, 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 support data transfers of 33, 66 or 100MB/sec. to one IDE drive connection. The VIA CLE266 integrated S3 3D supporting CRT/Panel displays up to 1600 x 1200 at 32-bit.

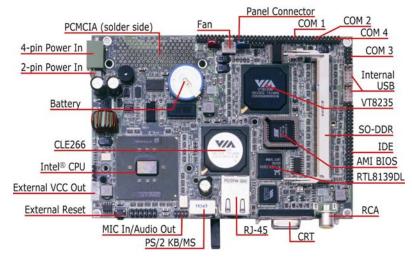
HS-2606 offers PCMCIA connector and CompactFlash reader in addition. +10~+30V wide range single DC power in can make HS-2606 suitable for all kinds of environments even more.

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



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

1.1 Major Features

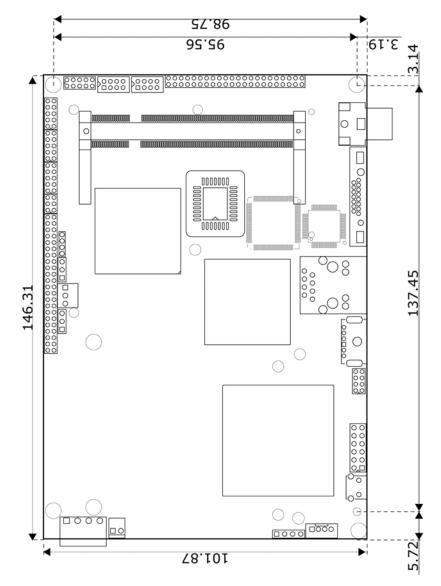


The HS-2606 comes with the following features:

- ULV Intel® Celeron® processor 400/650MHz
- > One SO-DDR socket with a max. capacity of 1GB
- VIA CLE266/VT8235 system 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
- CompactFlash card adapter, PCMCIA, four COM, four USB2.0 ports
- TV-Out function
- ➤ +10~+30V wide range single DC power in

1.2 Specifications

- CPU: ULV Intel® Celeron® processor 400/650MHz
- Memory: One SO-DDR socket supporting up to 1GB
- Chipset: VIA CLE266/VT8235
- I/O Chipset: Winbond W83697UF
- CompactFlash: One, Type 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 supporting AGP Bus and Hardware MPEG-2
- **TV-Out:** Supports PAL or NTSC TV systems
- Ethernet: RealTek RTL8139DL 10/100 Based LAN
- Audio: AC97 3D audio controller
- IDE: Two IDE disk drives supporting ATA/33/66/100 and with transfer rates of 33/66/100MB/sec.
- Serial Port: W83697UF UART-compatible RS-232 x 4 serial ports with 16-byte FIFO
- **USB:** Four internal USB2.0 ports
- Keyboard/Mouse: PS/2 6-pin Mini DIN
- BIOS: AMI PnP Flash BIOS
- Watchdog Timer: Software programmable time-out intervals from 1~256 sec.
- **CMOS:** Battery backup
- Power In: +10~+30V 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

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. Safety 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

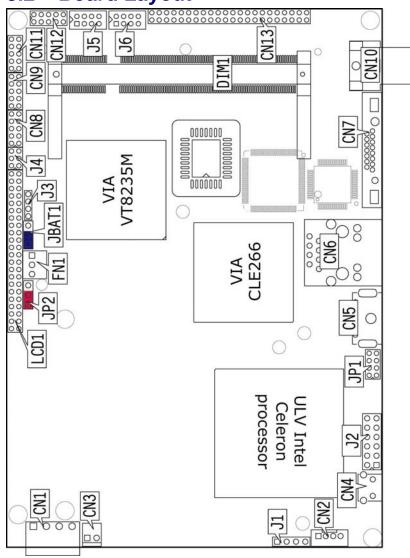
Hardware Installation

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 the 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
JP2	Panel Voltage Select: +3.3V	Short 1-2	12

3.4 Connector List

Connector	Definition	Page
CN1	4-pin Power In Connector	10
CN2	External VCC Out Connector	10
CN3	2-pin ATX Power In Connector	10
CN4	External Reset Button	10
CN5	PS/2 6-pin Mini DIN KB/MS Connector	18
CN6	RJ-45 Connector	14
CN7	15-pin CRT Connector	12
CN8/CN9/CN12/CN11	COM 1~COM 4 Connector (5x2 header)	17
CN10	TV-Out Connector	14
CN13	IDE Connector	16
CN14	CompactFlash Connector	22
DIM1	SO-DDR Socket	10
FN1	Fan Connector	10
J1	Line In Connector	15
J2	System Front Panel Connector	11
J3	GPIO Connector	20
J5	USB Connector	18
J6	USB Connector	18
JP1	MIC In/Audio Out Connector	15
LCD1	44-pin Panel Connector	12
U32	PCMCIA Connector	23
PC1	Mini PCI Connector	20

3.5 Configuring the CPU

The HS-2606 v2.0 embedded with a ULV Intel® Celeron® processor 400/650MHz. User don't need to adjust the frequently and check speed of Intel® processor.

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	1	
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 connectors at *CN1*. And one 2-pin ATX power in at *CN3*.

+10~+30V wide range single DC power in can make HS-2606 suitable for all kinds of environments even more.

• CN1: 4-pin Power In Connector

PIN	Description						
1	+10~+30V						
2	GND	1	0	۰	•	0	4
3	GND						
4	+10~+30V						

• CN3: 2-pin ATX Power In Connector

PIN	Description
1	PS_ON
2	5VSB



• CN2: External VCC Out Connector

PIN	Description
1	VCC
2	GND
3	GND
4	VCC

	1 🗌
	0
	ОЦ
	4 ()
-	

• CN4: External Reset Button

PIN	Description	3	4
1	RST_SW		
2	GND	\bigcirc	Ć
3	GND	$ \bigcirc$	\cap
4	GND		\bigcup_{2}

• FN1: Fan Connector

PIN	Description		θ > Ω
1	GND		GN 1/0 1/0
2	+5V	1	
3	N/C		

Connector *FN1* onboard HS-2606 is a 3-pin fan power output connector. And HS-2606 supports +5V Fan only.

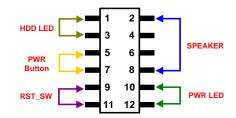
3.9 System Front Panel Connectors

The HS-2606 has one LED at location J2 that indicates the power-on status. This visual feature of the IDE LED may also be connected to a HDD LED, power button, reset switch, speaker and power LED via connector J2(1-3), J2(5-7), J2(9-11), J2(2-4-6-8), and J2(10-12).

PIN	Description	PIN	Description
1	330 Ω Pull +5V	2	Speaker
3	HDD LED	4	N/C
5	PW Button	6	GND
7	GND	8	330 Ω Pull +5V
9	Reset Switch	10	330 Ω Pull +5V
11	GND	12	PW_LED

• J2: System Front Panel Connector

Connector J2 Orientation



3.10 VGA Controller

The HS-2606 provides two connection methods of a VGA device. *CN7* 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.

• CN7: 15-pin CRT Connector

PIN	Description	PIN	Description	
1	Red	2	Green	6
3	Blue	4	N/C	
5	GND	6	GND	
7	GND	8	GND	000
9	N/C	10	GND	000
11	N/C	12	SDA	5 0 10 0 15
13	HSYNC	14	VSYNC	
15	SCL			

• LCD1: 44-pin Panel Connector

PIN	Description	PIN	Description
1	VCC	2	VCC
3	GND	4	GND
5	V _{LCD}	6	ENPVDD
7	ENPVEE	8	GND
9	GFPD0	10	GFPD1
11	GFPD2	12	GFPD3
13	GFPD4	14	GFPD5
15	GFPD6	16	GFPD7

...More On Next Page...

PIN	Description	PIN	Description
17	GFPD8	18	GFPD9
19	GFPD10	20	GFPD11
21	GFPD12	22	GFPD13
23	GFPD14	24	GFPD15
25	GFPD16	26	GFPD17
27	GFPD18	28	GFPD19
29	GFPD20	30	GFPD21
31	GFPD22	32	GFPD23
33	N/C	34	N/C
35	SHFCLK	36	GFPVS
37	GFPDEN	38	GFPHS
39	GND	40	FPBKLP
41	N/C	42	N/C
43	N/C	44	N/C

NCC Control Contr

NOTE: *Please set the proper voltage of your panel using 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 *JP2* offers two voltage settings for the user.

• JP2: Panel Voltage Select

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

3.11 TV-Out Connector

HS-2606 can support 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: TV-Out Connector

3	Description	PIN	Description	PIN
Ŭ	GND	2	TVCVB	1
	GND	4	GND	3
•				

3.12 Ethernet Connector

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

• CN6: RJ-45 Connector

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



3.13 Audio Connectors

The HS-2606 has an onboard AC97 3D audio interface. The following tables list the pin assignments of the MIC In/Audio Out and Line in connectors.

• JP1: MIC In/Audio Out Connector

PIN	Description	PIN	Description		1 :	2
1	AOUTL	2	AOUTR	AOUT_L		AOUT_R
3	GND	4	GND			
5	MIC IN	6	N/C	GND		GND
7	GND	8	GND	MIC IN	00	N/C
				GND	00	GND
					7 8	8

• J1: Line In Connector

PIN	Description	1 2 3 4
1	Line In_R	
2	GND	
3	GND	
4	Line In_L	

3.14 PCI E-IDE Drive Connector

CN13 is a standard 44-pin 2.0mm 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 *CN13*.

PIN	Description	PIN	Description
1	Reset	2	GND
3	PDD7	4	PDD8
5	PDD6	6	PDD9
7	PDD5	8	PDD10
9	PDD4	10	PDD11
11	PDD3	12	PDD12
13	PDD2	14	PDD13
15	PDD1	16	PDD14
17	PDD0	18	PDD15
19	GND	20	N/C
21	PDREQ	22	GND
23	IOW#	24	GND
25	IOR#	26	GND
27	PIORDY	28	470 Ω with GND
29	RPDACK-	30	GND
31	Interrupt	32	N/C
33	RPDA1-	34	PD33/66
35	RPDA0-	36	PDA2
37	RPCS1-	38	PDCS3#
39	HDD Active	40	GND
41	VCC	42	VCC
43	GND	44	N/C
			0000000 44 0000000 43

• CN13: IDE Connector

3.15 Serial Port Connectors

The HS-2606 offers two W83697UF compatible UARTs with Read/Receive 16-byte FIFO serial ports and four internal 10-pin connectors.

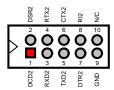
• CN8: COM1 Connector (5x2 Header)

	PIN	Description	PIN	Description
	1	DCD1	2	DSR1
1	3	RXD1	4	RTX1
1	5	TXD1	6	CTX1
1	7	DTR1	8	RI1
1	9	GND	10	N/C

	DSR1	RTX1	CTX1	RI1	N/C
\triangleright		4 00	Ô	Ô	
	1	3	5	7	9
	DCD1	RXD1	TXD1	DTR1	GND

• CN9: COM2 Connector (5x2 Header)

]	PIN	Description	PIN	Description
	1	DCD2	2	DSR2
1	3	RXD2	4	RTX2
	5	TXD2	6	CTX2
	7	DTR2	8	RI2
	9	GND	10	N/C



ATX3 CTX3 AI3 AIC

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• CN12: COM3 Connector (5x2 Header)

PIN	Description	PIN	Description
1	DCD3	2	DSR3
3	RXD3	4	RTX3
5	TXD3	6	CTX3
7	DTR3	8	RI3
9	GND	10	N/C

CN11: COM4 Connector (5x2 Header)

PIN	Description	PIN	Description
1	DCD4	2	DSR4
3	RXD4	4	RTX4
5	TXD4	6	CTX4
7	DTR4	8	RI4
9	GND	10	N/C

 DSR4	RTX4	CTX4	RI4	N/C
2 0 1	4 0 3	6 0 5	8 0 7	10 0 9
DCD4	RXD4	TXD4	DTR4	GND

3.16 USB Connector

The HS-2606 provides two 8-pin connectors, at location J5 and J6, for four USB2.0 connections to the HS-2606.

• J5/J6: USB Connector

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

3.17 Keyboard/Mouse Connectors

The HS-2606 offers CN5 for an external PS/2 type keyboard and mouse.

• CN5: PS/2 6-pin Mini DIN Keyboard and Mouse Connector

PIN	Description		35126
1	Keyboard Data		
2	Mouse Data	\neg	
3	GND		\bigcirc
4	+5V		\bigcirc
5	Keyboard Clock	Ī	
6	Mouse Clock		

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 re-start when such error happens.

The following sample programs show how to Enable, Disable and Refresh the Watchdog Timer:

;
MOV DX, 4EH MOV AL, 87H OUT DX, AL OUT DX, AL
; Configurate logical 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
OUT DX, AL ; update CRF30 with value 01H
MOV DX, 4EH MOV AL, F3H OUT DX, AL ; select CRF3 (select WDTO count mode) MOV DX, 4FH 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 Connector

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: General Purpose Input/Output

		-
PIN	Description	
1	GPIO8	
2	GPIO9	
3	GPIO10	
4	GPIO11	

3.20 Mini PCI Connector

HS-2606 supports a Mini PCI connector. The peripheral component with standard Type1 Mini PCI can be used. For particular requirement, please refer to "BOSER Mini PCI series product" on website or contact with us.

• PC1: Mini PCI Connector

PIN	Description	PIN	Description
1	INTB#	2	5V
3	3.3V	4	INTA#
5	INTD#	6	INTC#
7	GND	8	N/C
9	CLK	10	RST#
11	GND	12	3.3V
13	REQ0#	14	GNT#
15	3.3V	16	GND
17	AD[31]	18	PME#
19	AD[29]	20	Reserved
21	GND	22	AD[30]
23	AD[27]	24	3.3V
25	AD[25]	26	AD[28]
27	REQ1#	28	AD[26]

... More on next page ...

PIN	Description	PIN	Description
29	C/BE[3]#	30	AD[24]
31	AD[23]	32	IDSEL
33	GND	34	GND
35	AD[21]	36	AD[22]
37	AD[19]	38	AD[20]
39	GND	40	PAR
41	AD[17]	42	AD[18]
43	C/BE[2]#	44	AD[16]
45	IRDY#	46	GND
47	3.3V	48	FRAME#
49	N/C	50	TRDY#
51	SERR#	52	STOP#
53	GND	54	3.3V
55	PERR#	56	DEVSEL#
57	C/BE[1]#	58	GND
59	AD[14]	60	AD[15]
61	GND	62	AD[13]
63	AD[12]	64	AD[11]
65	AD[10]	66	GND
67	GND	68	AD[9]
69	AD[8]	70	C/BE[0]#
71	AD[7]	72	3.3V
73	3.3V	74	AD[6]
75	AD[5]	76	AD[4]
77	REQ2#	78	AD[2]
79	AD[3]	80	AD[0]
81	5V	82	GNT2#
83	AD[1]	84	GNT3#
85	GND	86	GND
87	N/C	88	N/C
89	N/C	90	N/C
91	N/C	92	N/C
93	N/C	94	N/C
95	N/C	96	REQ3#
97	N/C	98	GND
99	N/C	100	N/C

2 100 1 Mini PCI Socket pin orientation

3.21 CompactFlash™ Connector

The HS-2606 also offers an optional 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 CD card.

PIN	Description	PIN	Description
1	GND	26	N/C
2	SDD3	27	SDD11
3	SDD4	28	SDD12
4	SDD5	29	SDD13
5	SDD6	30	SDD14
6	SDD7	31	SDD15
7	-SDCS1	32	-SDCS3
8	GND	33	N/C
9	GND	34	-SDIOR
10	GND	35	-SDIOW
11	GND	36	4.7K Ω pull to VCC
12	GND	37	IRQ15
13	VCC	38	VCC
14	GND	39	N/C
15	GND	40	N/C
16	GND	41	10K Ω pull to VCC
17	GND	42	SHDRDY
18	SDA2	43	SDDACK
19	SDA1	44	SDDREQ
20	SDA0	45	HDD LED
21	SDD0	46	4.7K Ω pull to VCC
22	SDD1	47	SDD8
23	SDD2	48	SDD9
24	470 Ω pull to GND	49	SDD10
25	N/C	50	GND

• CN14: CompactFlash Connector

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 connectors.

• U32: PCMCIA Connector

PIN	Description	PIN	Description	
1	GND	2	CAD0	
3	CAD1	4	CAD3	
5	CAD5	6	CAD7	
7	CCBE0	8	CAD9	
9	CAD12	10	CAD12	
11	CAD14	12	CCBE1	
13	CPAR	14	CPERR	
15	CGNT	16	IRQ*INT	
17	VCC	18	VPP1	
19	CCLK	20	CIRDY	
21	CCBE2	22	CAD18	
23	CAD20	24	CAD21	
25	CAD22	26	CAD23	
27	CAD24	28	CAD25	
29	CAD26	30	CAD27	
31	CAD29	32	RFU	
33	CKRUN	34	GND	
35	GND	36	CCD1	
37	CAD2	38	CAD4	
39	CAD6	40	RFU	
41	CAD8	42	CAD10	
43	CVS1	44	CAD13	
45	CAD15	46	CAD16	
47	RFU	48	CBLOCK	
49	CSTOP	50	CDEVSEL	
51	VCC	52	VPP2	
53	CTDRY	54	CFRAME	
55	CAD17	56	CAD19	
57	CVS2	58	CRST	
59	CSERR	60	CREQ	
61	CCBE3	62	CAUDIO	
63	STSCHG-C*	64	CAD28	
65	CAD30	66	CAD31	
67	CCD2	68	GND	

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Chapter 4

AMI BIOS Setup

The HS-2606 uses AMI BIOS for the system configuration. The AMI 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 AMI 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 AMI 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.

AMIBIOS HIFLEX SETUP UTILITY – VERSION x.xx (C)2001 American Megatrends, Inc. All Rights Reserved		
Standard CMOS Setup Advanced CMOS Setup Advanced Chipset Setup Power Management Setup PCI / Plug and Play Setup Peripheral Setup Auto-Detect Hard Disks Change User Password Change Supervisor Password Auto Configuration with Optimal Settings Auto Configuration with Fail Safe Settings Save Settings and Exit Exit Without Saving		
Standard CMOS setup for changing time, date, hard disk type, etc. ESC:Exit ↑√:Sel F2/F3: Color F10: Save & Exit		

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

4.4 Standard CMOS Setup

The Standard Setup 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 capacity of the IDE hard disk drive 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.

AMIBIOS SETUP – STANDARD CMOS SETUP (C)2001 American Megatrends, Inc. All Rights Reserved						
Date (mm/dd/yyyy) : Sun Mar 01, 2099 Tim (hh/mm/ss) : 19:04:12 e	Base Memory : Extd Memory :	639KB 55MB				
Type Size Cyln Head WPcom Sec Pri Master : Auto Pri Slave : Auto Sec Master : Auto Sec Slave : Auto	LBA BIk PIO Mode Mode Mode	32Bit Mode Off Off Off Off				
Boot Sector Virus Protection Disabled						
Month: Jan - Dec Day: 01 - 31 Year: 1980 - 2099	ESC: Exit ↑↓: PgUp/PgDn: Modify F2/F3: Color	Sel				

4.5 Advanced CMOS Setup

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.

AMIBIOS SETUP – ADVANCED CMOS SETUP (C)2001 American Megatrends, Inc. All Rights Reserved				
Quick Boot	Enabled		Available Options:	
1st Boot Device	Disabled		Disabled	
2nd Boot Device	Disabled		Enabled	
3rd Boot Device	Disabled			
Try Other Boot Devices	Yes			
S.M.A.R.T. for Hard Disks	Disabled			
BootUp Num-Lock	On			
PS/2 Mouse Support	Enabled			
Primary Display	VGA/EGA			
Password Check	Setup			
Ask HDD Password on Every Boot	Yes			
Boot To OS/2	No			
CPU MicroCode Updation	Enabled			
CPU Serial Number	Disabled			
L1 Cache	Enabled			
L2 Cache	Enabled			
System BIOS Cacheable	Enabled			
C000,32k Shadow	Cache			
C800,16k Shadow	Disabled			
CC00,16k Shadow	Disabled			
D000,16k Shadow	Disabled			
D400,16k Shadow	Disabled		ESC: Exit ↑↓: Sel	
D800,16k Shadow	Disabled		PgUp/PgDn: Modify	
DC00,16k Shadow	Disabled	▼	F2/F3: Color	

4.6 Advanced Chipset Setup

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 might consider and make any changes only if you discover that the data has been lost while using your system.

AMIBIOS SETUP – ADVANCED CHIPSET SETUP (C)2001 American Megatrends, Inc. All Rights Reserved					
******* DRAM Timing *******		Available Options:			
Configure SDRAM Timing by SPD	Enabled	Disabled			
SDRAM Frequency	Auto	Enabled			
SDRAM CAS# Latency	2.5				
SDRAM Bank Interleave	Disabled				
SDRAM Command Rate	2T				
Memory Hole	Disabled				
Auto Prechrage for TLB/WB	Disabled				
Write Recovery time	2T				
AGP Mode	4x				
AGP Read Synchronization	Disabled				
AGP Fast Write	Disabled				
AGP Comp. Driving	Auto				
Manual AGP Comp. Driving	CB				
AGP Aperture Size	64MB				
AGP Master 1 W/S Write	Disabled				
AGP Master 1 W/S Read	Disabled				
Search for MDA Resources	Yes				
PCI Delay Transaction	Enabled				
USB Controller	4 USB Ports				
USB Device Legacy Support	All Device				
V-Link Data 2X Support	Disabled	ESC: Exit ↑↓: Sel			
		PgUp/PgDn: Modify			
		F2/F3: Color			

4.7 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 own style of computer use.

AMIBIOS SETUP – PO (C)2001 American Megat		
ACPI Aware O/S	Yes	▲ Available Options:
ACPI Standby State	S1/POS	▶ No
USB Device Wakeup Function	Enabled	Yes
Re-Call VGA BIOS at S3 Resuming	Enabled	
Power Management / APM	Enabled	
Video Power Down Mode	Suspend	
Hard Disk Power Down Mode	Stand By	
Standby Time Out (Minute)	Disabled	
Suspend Time Out (Minute)	Disabled	
Throttle Slow Clock Ratio	50%~56.25%	
Display Activity	Ignore	
IRQ3	Monitor	
IRQ4	Monitor	
IRQ5	Ignore	
IRQ7	Monitor	
IRQ9	Ignore	
IRQ10	Ignore	
IRQ11	Ignore	
IRQ13	Ignore	
IRQ14	Monitor	
IRQ15	Ignore	
Power Button Function	On / Off	
Restore on AC/Power Loss	Last State	
Wake-Up Key	Any Key	
Wake-Up Password	N/A	
Resume On PS/2 Mouse	Disabled	
Resume On RTC Alarm	Disabled	
RTC Alarm Date	15	
RTC Alarm Hour	12	ESC: Exit ↑↓: Sel
RTC Alarm Minute	30	PgUp/PgDn: Modify
RTC Alarm Second	30	▼ F2/F3: Color

4.8 PCI / Plug and Play Setup

This section describes configuring the PCI bus system. PCI, or Personal Computer Interconnect, 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.

AMIBIOS SETUP – P (C)2001 American Mega		
Plug and Play Aware O/S	No	Available Options:
Clear NVRAM	No	▶ No
OnChip VGA Frame Buffer Size	16MB	Yes
PCI Latency Timer (PCI Clocks)	32	
Primary Graphics Adapter	PCI	
Boot Device Select	CRT	
TV Туре	NTSC	
TV Output Connector	Composite	
LCD Panel Type	00	
TV Layout	Default	
Dithering	Disabled	
PCI IDE BusMaster	Disabled	
OffBoard PCI IDE Card	Auto	
OffBoard PCI IDE Primary IRQ	Disabled	
OffBoard PCI IDE Secondary IRQ	Disabled	
DMA Channel 0	PnP	
DMA Channel 1	PnP	
DMA Channel 3	PnP	
DMA Channel 5	PnP	
DMA Channel 6	PnP	
DMA Channel 7	PnP	
IRQ3	PCI/PnP	
IRQ4	PCI/PnP	
IRQ5	PCI/PnP	
IRQ7	PCI/PnP	
IRQ9	PCI/PnP	
IRQ10	PCI/PnP	
IRQ11	PCI/PnP	ESC: Exit ↑↓: Sel
IRQ14	PCI/PnP	PgUp/PgDn: Modify
IRQ15	PCI/PnP	F2/F3: Color

4.9 Peripheral Setup

The IDE hard drive controllers can support up to two separate hard drives. These drives have a master/slave relationship that is determined by the cabling configuration used to attach them to the controller. Your system supports two IDE controllers--a primary and a secondary--so you can install up to four separate hard disks.

PIO means Programmed Input/Output. Rather than having the BIOS issue a series of commands to affect the transfer to or from the disk drive, PIO allows the BIOS to tell the controller what it wants and then let the controller and the CPU perform the complete task by them. This is much simpler and more efficient (also faster).

AMIBIOS SET (C)2001 American Me	UP – PERIPHER gatrends, Inc. A	
OnBoard Serial Port 1	3F8/COM1	Available Options:
OnBoard Serial Port 2	2F8/COM2	▶ Auto
Serial Port2 Mode	Normal	Disabled
IR Pin Select	IRRX/IRTX	Enabled
OnBoard Serial Port3	3E8/COM3	
Serial Port3 IRQ	10	
OnBoard Serial Port4	2E8/COM4	
Serial Port4 IRQ	11	
OnBoard IDE	Both	
OnBoard AC'97 Audio	Enabled	
		ESC: Exit ↑↓: Sel
		PgUp/PgDn: Modify
		F2/F3: Color

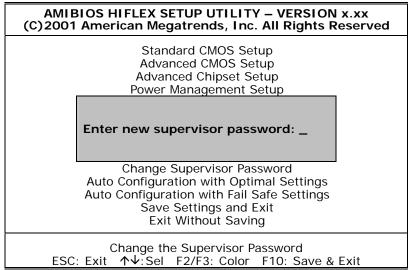
4.10 Auto-Detect Hard Disks

This option detects the parameters of an IDE hard disk drive, and automatically enters them into the Standard CMOS Setup screen.

Up to four IDE drives can be detected, with parameters for each appearing in sequence inside a box. To accept the displayed entries, press the "Y" key; to skip to the next drive, press the "N" key. If you accept the values, the parameters will appear listed beside the drive letter on the screen.

AMIBIOS HIFLEX SETUP UTILITY – VERSION x.xx (C)2001 American Megatrends, Inc. All Rights Reserved
Standard CMOS Setup
Advanced CMOS Setup
Advanced Chipset Setup
Power Management Setup
PCI / Plug and Play Setup
Peripheral Setup
Hardware Monitor Setup
Auto-Detect Hard Disks
Change User Password
Change Supervisor Password
Auto Configuration with Optimal Settings
Auto Configuration with Fail Safe Settings
Save Settings and Exit
Exit Without Saving
Auto-detect all hard disk parameters
ESC: Exit ↑↓: Sel F2/F3: Color F10: Save & Exit

4.11 Change Supervisor/User Password



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

- supervisor password: can enter and change the options of the setup menus.
- **user password:** just can only enter but do not have the right to change the options of the setup menus.

When you select this function, the following message will appear at the center of the screen to assist you in creating a password.

ENTER PASSWORD:

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

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

PASSWORD DISABLED.

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

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

You determine when the password is required within the BIOS Features Setup Menu and its Security option (see Section 3). If the Security option is set to "System", the password will be required both at boot and at entry to Setup. If set to "Setup", prompting only occurs when trying to enter Setup.

4.12 Auto Configuration with Optimal Settings

When you press <Enter> on this item you will get a confirmation dialog box with a message shown below. This option allows you to load/restore the BIOS default values permanently stored in the BIOS ROM. Pressing 'Y' loads the BIOS default values for the most stable.

AMIBIOS HIFLEX SETUP UTILITY – VERSION x.xx (C)2001 American Megatrends, Inc. All Rights Reserved
Standard CMOS Setup Advanced CMOS Setup Advanced Chipset Setup Power Management Setup
Load high performance settings (Y/N) ? <u>N</u>
Change Supervisor Password Auto Configuration with Optimal Settings Auto Configuration with Fail Safe Settings Save Settings and Exit Exit Without Saving
Load configuration settings giving highest performance ESC:Exit ↑↓:Sel F2/F3: Color F10: Save & Exit

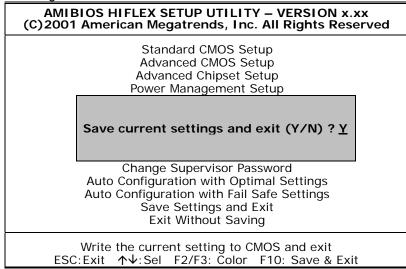
4.13 Auto Configuration with Fail Safe Settings

When you press <Enter> on this item you get a confirmation dialog box with a message similar to the figure below. This option allows you to load/restore the default values to your system configuration, optimizing and enabling all high performance features. Pressing 'Y' loads the default values that are factory settings for optimal performance system operations.

AMIBIOS HIFLEX SETUP UTILITY – VERSION x.xx (C)2001 American Megatrends, Inc. All Rights Reserved
Standard CMOS Setup Advanced CMOS Setup Advanced Chipset Setup Power Management Setup
Load failsafe settings (Y/N) ? <u>N</u>
Change Supervisor Password Auto Configuration with Optimal Settings Auto Configuration with Fail Safe Settings Save Settings and Exit Exit Without Saving
Load failsafe configuration settings ESC:Exit ↑↓:Sel F2/F3: Color F10: Save & Exit

4.14 Save Settings and Exit

Pressing <Enter> on this item asks for confirmation:



Pressing "Y" stores the selections made in the menus in CMOS – a special section of memory that stays on after you turn your system off. The next time you boot your computer, the BIOS configures your system according to the Setup selections stored in CMOS. After saving the values the system will be restarted again.

4.15 Exit Without Saving

Pressing <Enter> on this item asks for confirmation:

Quit without saving (Y/N)?

This allows you to exit Setup without storing in CMOS any change. The previous selections remain in effect. This exits the Setup utility and restarts your computer.

AMIBIOS HIFLEX SETUP UTILITY – VERSION x.xx (C)2001 American Megatrends, Inc. All Rights Reserved
Standard CMOS Setup Advanced CMOS Setup Advanced Chipset Setup Power Management Setup
Quit without saving (Y/N) ? <u>N</u>
Change Supervisor Password Auto Configuration with Optimal Settings Auto Configuration with Fail Safe Settings Save Settings and Exit Exit Without Saving
Exit without saving the current setting ESC:Exit ↑√:Sel F2/F3: Color F10: Save & Exit
Abandon all Data & Exit Setup

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Chapter 5

Software Utilities

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

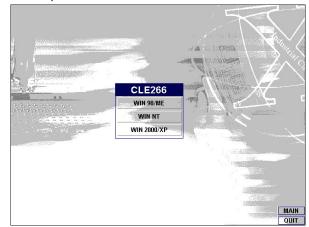
The drivers are located in the following directories of the utility disk:

5.1 VGA Driver Installation

5.1.1 VGA Driver Installation for WIN95/98/2000/XP

1. With the Utility CD Disk still in your CD ROM drive, click the chipset **CLE_266**.

C_T65545	S3_375
C_T65550	S3_3D
C_T69000	\$3_775
C_T69030	SIS305
CYRIX_VGA	SIS 55X
INTEL_815	SIS5598
SMI-SM721	VIA_8601
SMI-SM730	VIA_8605
SMI-SM820	VIA_8606
	CLE 266



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

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



5. 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 WIN NT4.0

 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	? X
Background Screen Saver Appearance Plus! Settings	
Color Palette	-
IG Colors Less More	
640 by 480 pixels	
Eont Size Small Fonts Use hardware default setting	1
	-
List All Modes Test Display Type	
OK Cancel App	ly.

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



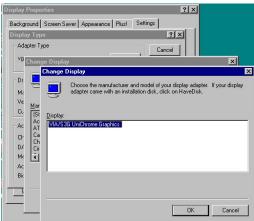


- ?× Background Screen Saver Appearance Plust Settings ?× Display Type Adapter Type Cancel ^{vg} Change Display × 9 Choose the manufacturer and model of your display adapter. If your display adapter came with an installation disk, click on HaveDisk. Dr Ma Ve Cu Manufactures: Display: [Standard display types]
 Activ
 Activ
 ATI Technologies
 Cardex
 Chips & Technologies
 Cirrus Logic npatible display adapter Ac Cł D/ Mł Ac Bic <u>H</u>ave Disk... ____ OK Cancel 7
- 3. In the Change Display Type window, click on Have Disk.

4. Specify the path of the new driver and then press on **Enter**.

Display	Propertie	s	<u>?</u> ×	
Backg	ound Sci	een Saver	Appearance Plus! Settings	
Displa	у Туре		?×	
Ada	apter Type		Cancel	
٧g	Change [)isplay		×
-Dr Mi	9	Choose th adapter ca	e manufacturer and model of your display adapter. If your disp me with an installation disk, click on HaveDisk.	ay
Ve				
CL CL	Manufac	Install Fro	Dienlaur am Diek	×
Ac Cł D/ Mł Ac Bit	(Standk Actix ATI Te Cardex Chips & Cirrus L 4	-	Insert the manufacturer's installation disk into the drive selected, and then click OK.	OK Cancel
			Copy manufacturer's files from: E:\VGA\W/mNT	Browse

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



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

Display Properties		? ×
Background Screen S Display Type Adapter Type vga compatible displa	aver Appearance Plus! Settin ay adapter <u>C</u> hange	ngs ?X Cancel
- Driver Infc Third-pa		Detect
Manufacti Version Ni Current Fil Adapter Ir Chip Type DAC Type Memory S	here as a convenience. For any contact the hardware vendor. Do you wish to proceed ?	rdware vendor, and is only provided
	navailable> navailable> Igst Di: OK Cancel	splay _ype



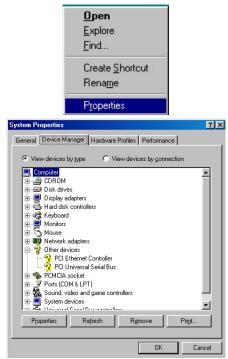
7. Once the installation is completed, you must shut down the system and restart for the new driver to take effect.

Background Screen Saver Appearance Plust Settings Display Type ? X Adapter Type ? X Adapter Type Cancel upa compatible display adapter	×
Adapter Type vga compatible display adapter participation Driver Information Manufact Installing Driver Version N Current Fi Adapter I Chip Type DAC Type DAC Type DAC Type CK Memory Size: vunavailable> Dick Bios Information: vunavailable>	
vga compatible display adapter	
vga compatible display adapter	
Manufact Installing Driver Version N Current Fi Adapter In Chip Type DAC Type Memory Size: cunavailable> Bios Information: cunavailable>	
Vertion N Current Fi Adapter It Chip Type DAC Type Memory Size Adapter String Curavalable> Bios Information: Curavalable>	
Current Fi Adapter II Chip Type Control Contr	er
Current Fi You must exit from the Diplay Properties window and reboot in orde for the changes to take effect. Chip Type DAC Type DK Memory Size: (unavailable>) Bios Information: (unavailable>)	ler
Adapter Ir for the changes to take effect. Dring Type DAC Type Mennoy Size (unavailable> Adapter String (unavailable> Bios Information: (unavailable>	e
Chip Type DAC Typy Memory Size: <ur> Unavailable> Adapter String: <ur> unavailable> Bios Information: <ur> <ur> unavailable></ur></ur></ur></ur>	
DAC Typy Memory Size: <ur> Adapter String: <ur> Cunavailable> Bios Information: <ur> <ur> Cunavailable> </ur></ur></ur></ur>	
Memory Size: <ur> <ur> Adapter String: <ur> unavailable> Bios Information: <ur> unavailable></ur></ur></ur></ur>	
Bios Information: <unavailable></unavailable>	_
List Ail Modes Test Display Type	
OK Cancel Apply	
stem Settings Change	B
stell Jettings Change	
You must restart your computer before the new settings will ta effect.	ake
V	
Do you want to restart your computer now?	
Yes No	

5.2 LAN Driver Installation

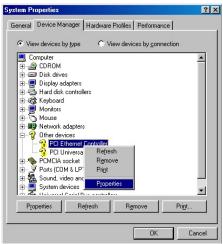
5.2.1 LAN Driver Installation for WIN95/98/2K

 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**.



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.



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 **B**<u>r</u>**owse** button to manually specify the path.





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 W	fizard
Update Device Driver w	Windows driver file search for the device: Realtek RTL8139(A/B/C/8130) PCI Fast Ethernet NIC Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue. Location of driver: D:\HS-260~1\LAN\WIN98\NETRTS5.INF
	< <u>B</u> ack Next> Cancel



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.



 Restart your computer to make the new system settings take effect. Click on the <u>Yes</u> 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

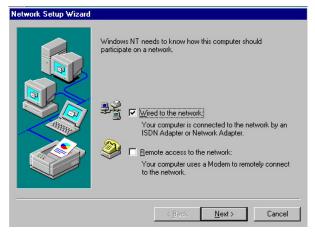
 With the Utility CD Disk still in your CD ROM drive, right click on Network Neighborhood icon from the Windows menu. Select on Properties.



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



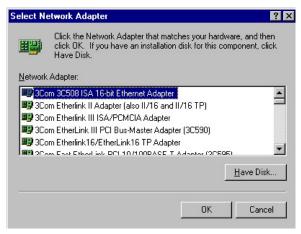
 Tick on the Wired to Network once the following screen appears. Click on the <u>Next></u> to proceed.



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



5. Once setup finishes the search, it will list a number of adapters for you to choose from. Press on the **<u>Have Disk</u>** 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.



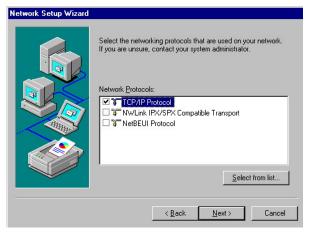
7. When Setup finds the information it needs about the new driver, it will display the device it found on the following screen. Press on the **OK** button to accept and proceed.

Choose a soft	tware supporte	d by this hardw	are manufacturer's	disk.
DTI 0120(A)	P /C /01201 PC	i Fast Ethernet.	Adapter	
HTL8139[A/	167C7813U[PL	. Fast Ethernet .	Adapter	

 Setup then returns to Network Setup Wizard screen and displays your new Network Adapter. Click on <u>Next</u>> to continue.



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



 The Network Setup Wizard then allows you to set the Network Services on your Network, then click on <u>Next</u>> to continue.

Network Setup Wizard	Listed below are the services that will be installed by the system. You may add to this list by clicking the Select from list button.
	Network Services: V
	Select from list



 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 <u>Next</u>> button once you are sure of your devices.

will allow individual components to install and raise dialogs so that they may install correctly.
install selected components. o make changes to your selections.

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



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.





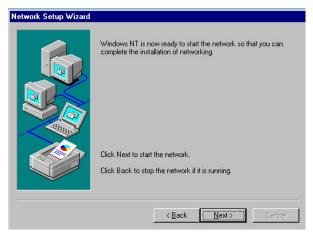
14. When Setup asks if you wish to change the TCP/IP settings of your system, select the appropriately. The default choice is No.



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

You may use this order in which th Show Bindings for The Server The Workst	is computer finds pr: all serv 5 Interface	information on t	
	<u>D</u> isable	Move <u>U</u> p	Move D <u>o</u> wn
	< <u>B</u> ack	<u>N</u> ext >	Cancel

Setup then prompts you that it is ready to start the network. You
may complete the installation thereafter. Click on <u>Next</u>> 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

1. With the Utility CD Disk still in your CD ROM drive, click the chipset "VIA_AC97".



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



-10× VIA Technologies, Inc. VIA Audio Driver Setup Program 5.20b Select Install or Uninstall Instal diver Uninstall drive Cancel

The Select Components dialog box is now displayed. Select on Install driver and then click on $\underline{N}ext\!>\!.$

- 4. After the audio driver installation finishes, select the $\ensuremath{\textit{Finish}}$ button to complete the installation process.

5	tup Complete		
		Setup has finished copping files to your computer.	
	9	Before you can use the program, you must restart Windows or your computer.	
		F Yes, I want to rectart my computer now	
	CONTRACTOR OF	C No, I will restart my computer later.	
	S-11		
	-	Remove any disks from their drives, and then click Finish to complete setup.	
		CBirck Finish	



3.

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.



2. Press "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.



 The Select Components dialog box is now displayed. Tick on VT8233/VT8235 and then click on <u>Next</u>>.





5. After the audio driver installation finishes, tike **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. Put the Utility CD Disk still in your CD ROM drive, click the "VIA 8235 USB2.0".



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

Setup		
3	VIA USB 2.0 Driver Setup is preparing the InstallShield(R) Wizard which will guide you through the rest of the setup process. Please wait.	
	100 %	

 Tick on the "Install USB2.0 Driver" once the following screen appears. Click on the <u>Next</u> to proceed.





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



5.4.2 Win 2000

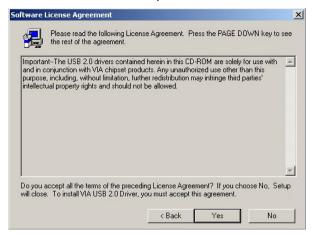
1. With the Utility CD Disk still in your CD ROM drive, click the "VIA 8235 USB2.0".



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



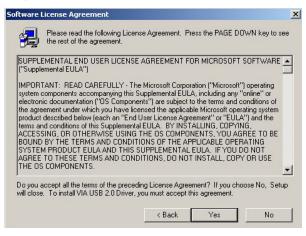
3. When the display below appears on your screen, Setup is already ready to install and copy the related files on to your hard drive, click on the "**Next**" button to proceed.



 Tick on the "Install USB2.0 Driver" once the following screen appears. Click on the <u>Next</u> to proceed.



 When the Software License Agreement screen appears on your screen, press on the <u>Next</u> button to continue.



6. And you also can print End User Legal Agreement after your installation finished.

Print End User Legal Agr	eement	x
	You should 'Print' or 'Archive' for later reference.	
	K Back Next > C	ancel



5.4.3 Win XP

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



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



the Next> button on the screen below.

The programs starts to install the USB2.0 driver when you click



4. 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.

Questio	n		
?	Warning message: In order to complete th this setup program will Do you want to continu	restart your system au	
1	Yes	No	



3.

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