

POS 312

B76

User Manual



P/N: 48200610
2006 September V1.1

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Manual Version 1.1

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Safety

IMPORTANT SAFETY INSTRUCTIONS

1. To disconnect the machine from the electrical power supply, turn off the power switch and remove the power cord plug from the wall socket. The wall socket must be easily accessible and in close proximity to the machine.
2. Read these instructions carefully. Save these instructions for future reference.
3. Follow all warnings and instructions marked on the product.
4. Do not use this product near water.
5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
7. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
9. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

CE MARK



This device complies with the requirements of the EEC directive 89/336/EEC with regard to “Electromagnetic compatibility” and 73/23/EEC “Low Voltage Directive”.

FCC

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

CAUTION ON LITHIUM BATTERIES

There is a danger of explosion if the battery is replaced incorrectly. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

LEGISLATION AND WEEE SYMBOL

2002/96/EC Waste Electrical and Electronic Equipment Directive on the treatment, collection, recycling and disposal of electric and electronic devices and their components.



The crossed dustbin symbol on the device means that it should not be disposed of with other household wastes at the end of its working life. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure.

To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract.

This product should not be mixed with other commercial wastes for disposal.

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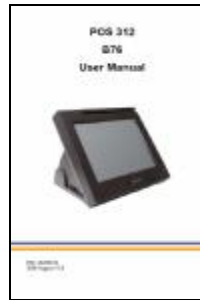
1. Item Checklist

Take out the system unit from the carton. Remove the unit by carefully clutching the foam inserts and remove slowly to protect the system. The following contents should be found in the carton:

1.1. Standard Items



a. Driver CD



b. Manual



c. Power Cable



d. System



e. Power Supply

1.2. Optional Items



a. Programmable Keyboard



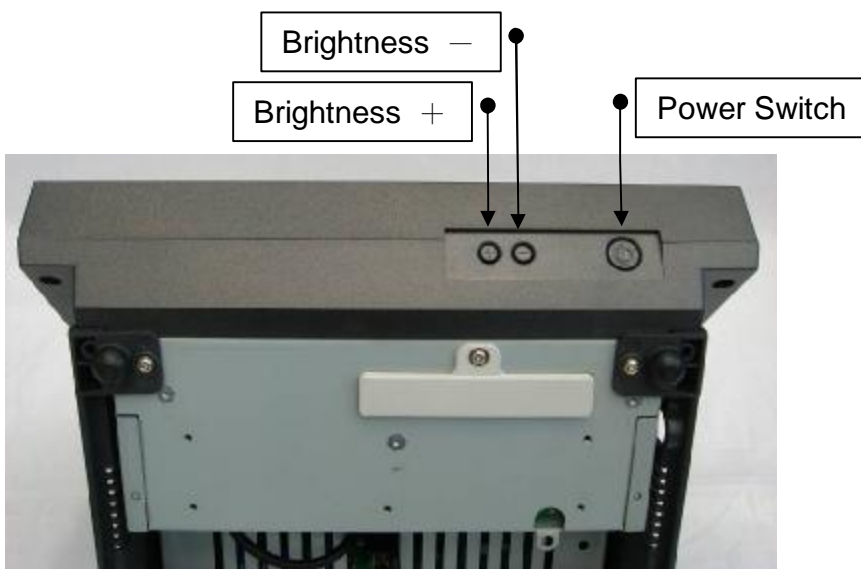
b. Customer Display



c. Magnetic Card Reader

2. System View

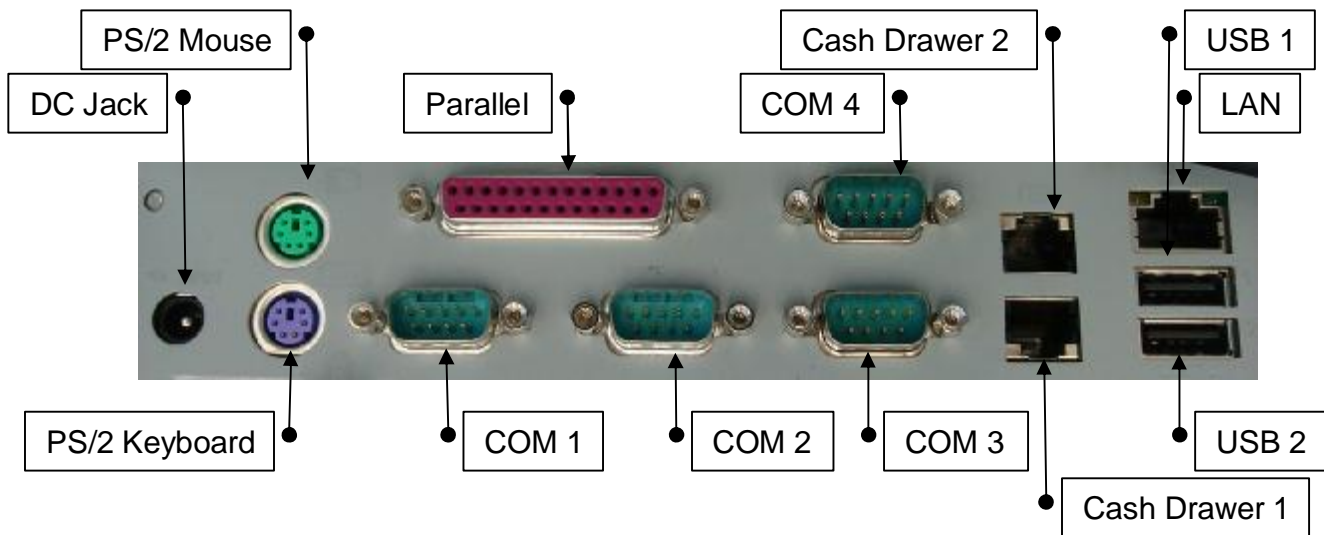
2.1. Front View



2.2. Side View



2.3. Rear View



Note: The maximum current that can be drawn from each COM port is 500 mA. Only one PS/2 keyboard can be connected to the system: either on the side or in the rear.

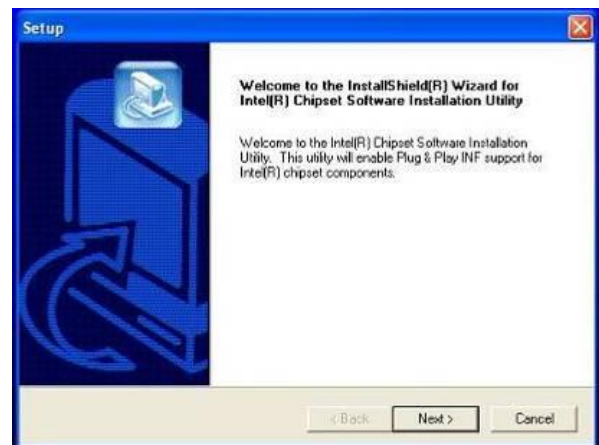
3. Driver Installation

3.1. Driver List

Folder/File	File Description
<CD>:\B76\B76.htm	B76 Driver List
<CD>:\COMMONINTEL\Chipset	Chipset Driver
<CD>:\COMMONINTEL\USB 20	USB 2.0 Driver
<CD>:\COMMONINTEL\VGA\i85x	VGA Driver
<CD>:\COMMON\Ac97_codec\Realtek\ALC202A	Audio Driver
<CD>:\COMMON\POS_Touch	POSTouch Screen Driver
<CD>:\COMMON\Lan_driver\R8139_810x\V3.00.504	10/100Mb LAN Driver

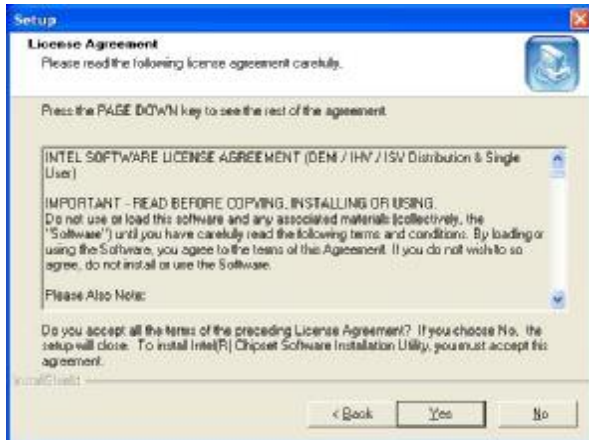
-The following procedures are for Windows 2000/XP, other platforms are similar.

3.2. Chipset Driver Installation

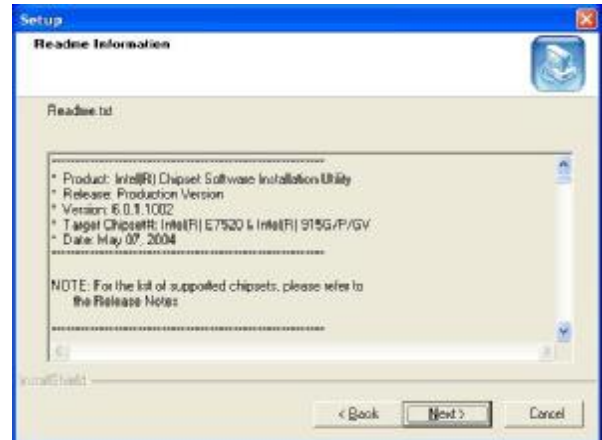


a. Double click “infmat_enu_6.0.1.1002” on the My computer window.

b. Click the “Next” button on the Welcome window.



c. Click the "Yes" button on the License Agreement window.



d. Click the "Next" button on the Readme Information window.

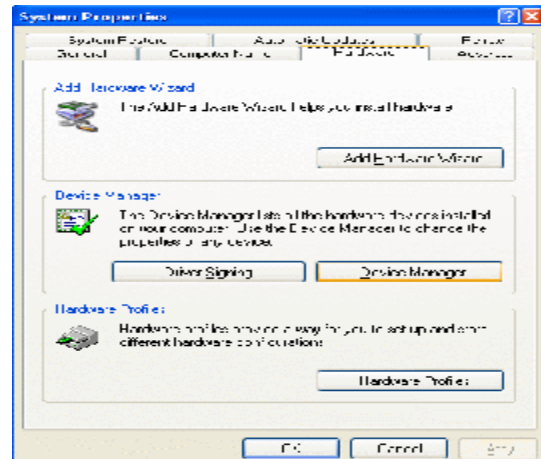
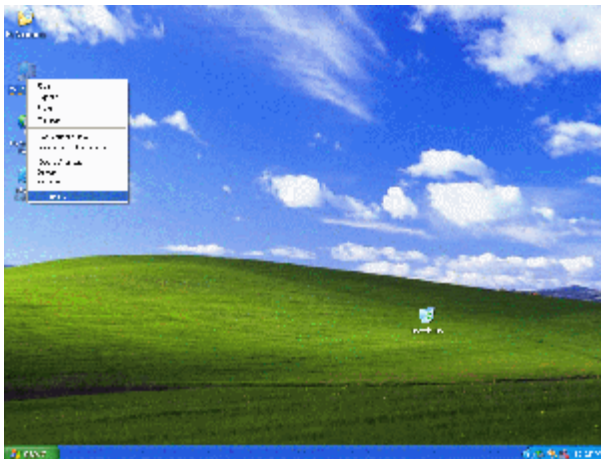


e. Click the "Finish" button and restart your system.

3.3. USB 2.0 Driver Installation

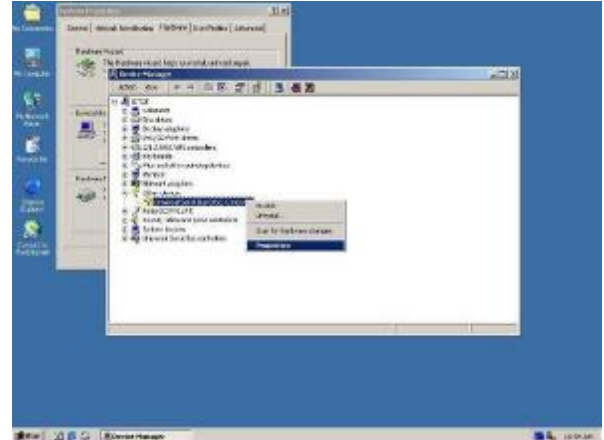
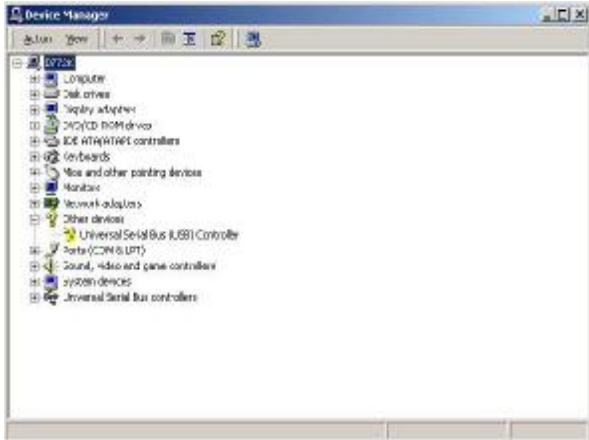
OS Requirements

OS	USB 2.0 requirements
Windows XP	USB 2.0 drivers are provided in Service Pack 1 (SP1) for Windows XP, which is available through Windows Update .
Windows 2000	USB 2.0 drivers are available through Windows Update or Service Pack 4.
Windows 98SE/Me	USB 2.0 drivers are available on the Intel developer site .
Windows 98 (Retail)	Developers and OEMs should contact Orange Ware . For end-users, if your device does not ship with Windows 98 drivers, contact your device or system manufacturer. If USB 2.0 drivers are not available, your device will operate at USB 1.1 speeds
Linux	USB 2.0 support is available in kernel 2.4.19 or later development kernels, or in the 2.4.19 or later production kernel. More information .



a. Right click My Computer on the windows desktop and select “properties”

b. Select “Hardware” à “Device Manager” on system properties.



c. Select "Other Devices" à "Universal Serial Bus (USB) Controller" à "Properties" on Device Manager.

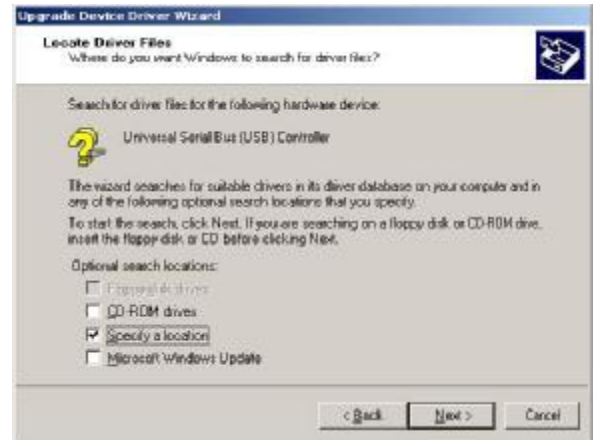


d. Select "Device" à "Update Driver...".

e. Click the "Next" button on the welcome window.



- f. Select “Search for a suitable...” and click the “Next” button on the Install Hardware Device Drivers window.



- g. Select “Specify a location” and click the “Next” button on the Locate Driver Files window.



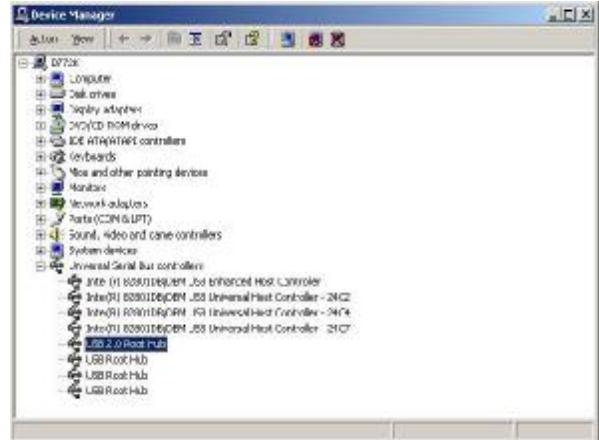
- h. Press “Browse” to select driver and then click the “OK” button to next page.



- i. Click the “Next” button on Driver Files Search Results window.



- j. Click the “Finish” button to complete this process.



- k. Finished.

3.4. VGA Driver Installation



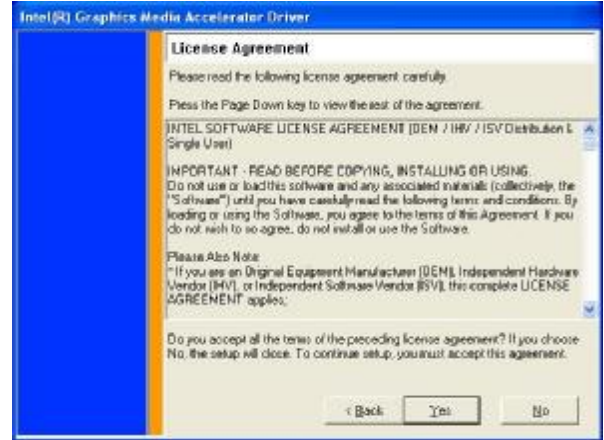
- a. Double click “win2k_xp147” on the My Computer window.



- b. Click the “Next” button on the Welcome window.



c. Click the "Next" button on the Welcome window.

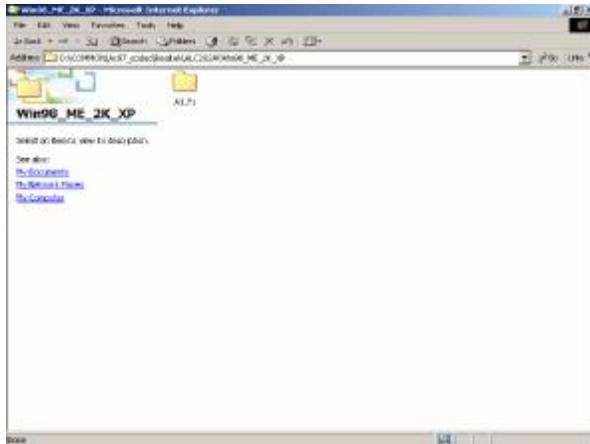


d. Click the "Yes" button on the License Agreement window.

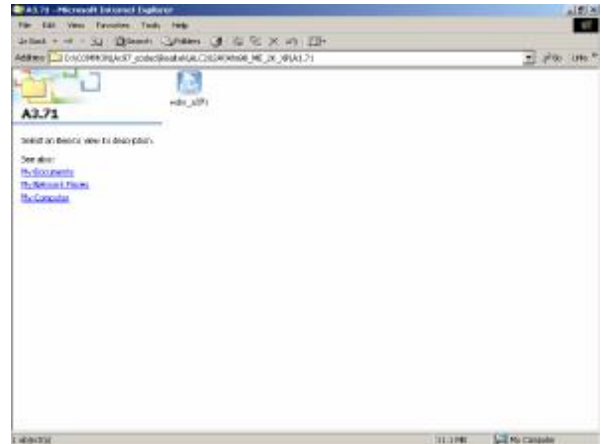


e. Click the "Finish" button and restart your system.

3.5. Audio Driver Installation



a. Click "A3.71" on the My Computer window.



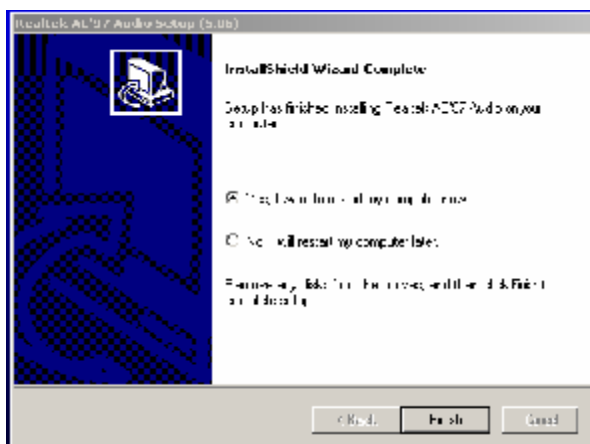
b. Double click "wdm_a371" on the My Computer window.



c. Click "Next" button on the Realtek AC'97 Audio Setup window.



d. Click "Yes" button on the Digital Signature Not Found window.

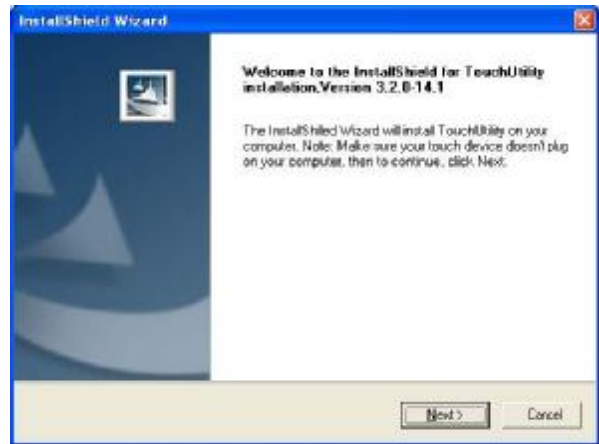


e. Click "Finish" button on the Realtek AC'97 Audio Setup window.

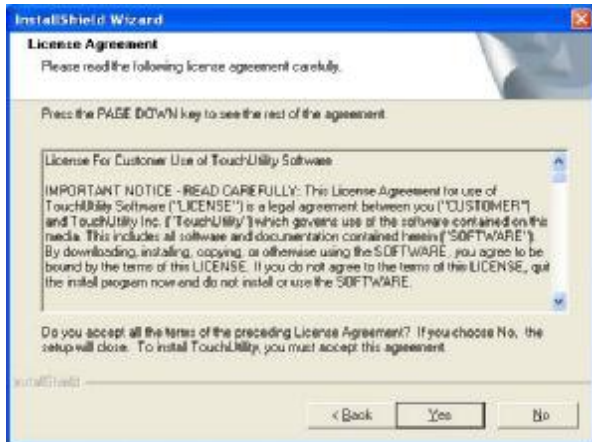
3.6. POSTouch Touch Driver Installation



a. Double click "Setup" on the My computer window.



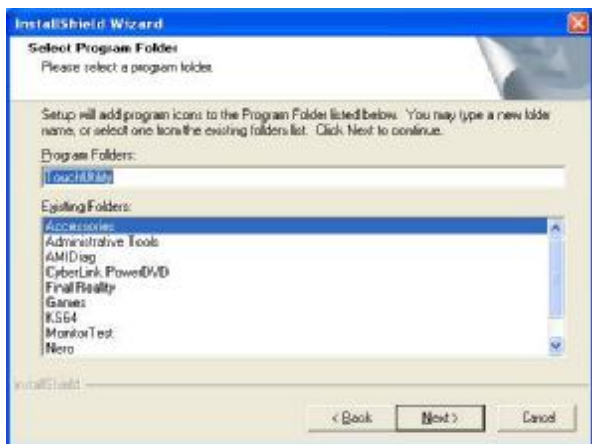
b. Click the "Next" button on the Welcome window.



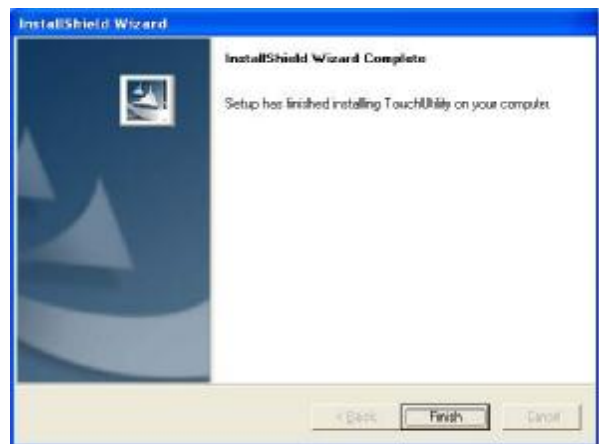
c. Click "Yes" button on the License Agreement window.



d. Click "Next" button on the Choose Destination Location window.



e. Click the "Next" button on the Select Program Folder window.



f. Click the "Finish" button on the InstallShield Wizard Complete window.



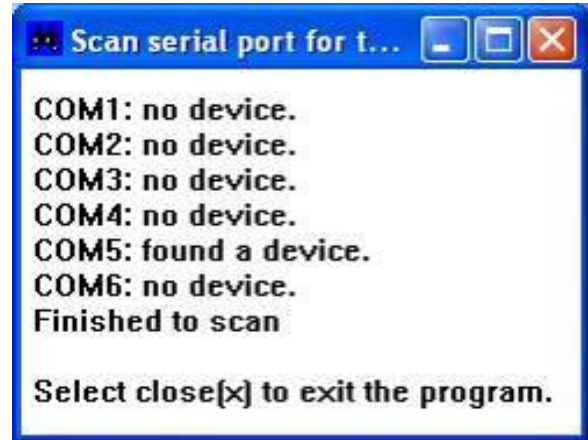
- g. The POSTouch touch driver has been fully tested for compatibility. Please ignore this warning. Click the “Continue Anyway” button on the Hardware Installation window.



- h. Click the “OK” button and restart your system.



- i. After the computer restarted, select “Programs à TouchUtility à Scan RS232 Touch Device”.



- j. Automatically scan serial port for touch.



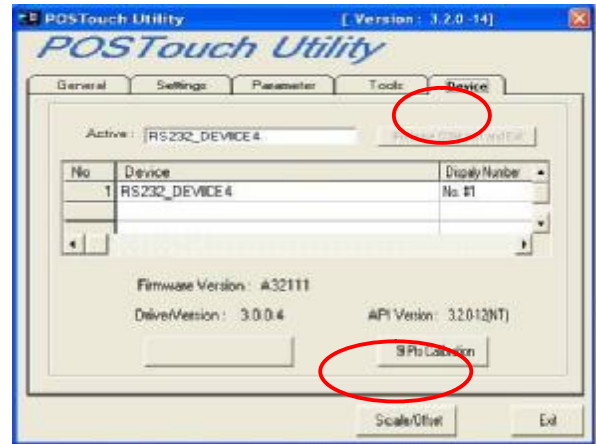
k. Select “Programs à TouchUtility à Touch Utility”.



l. Click “Scale / Offset” on the POSTouch Utility window.



m. Calibrate three red flash points.

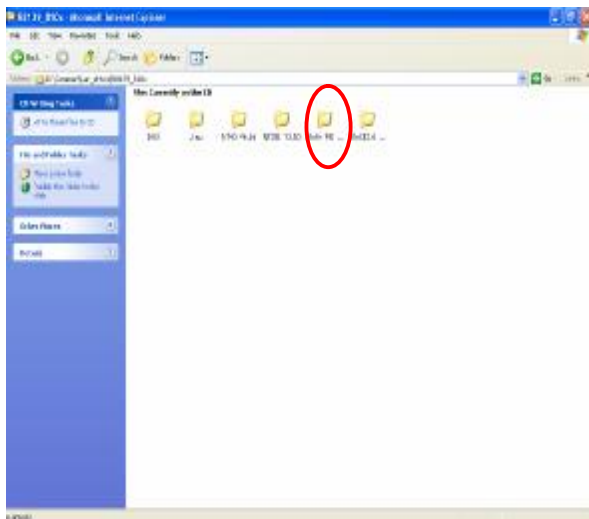


n. Select “Device à 9Pts Calibration” on the POSTouch Utility window.



- o. Calibrate nine red flash points. Then, click “Exit” on the POSTouch Utility window.

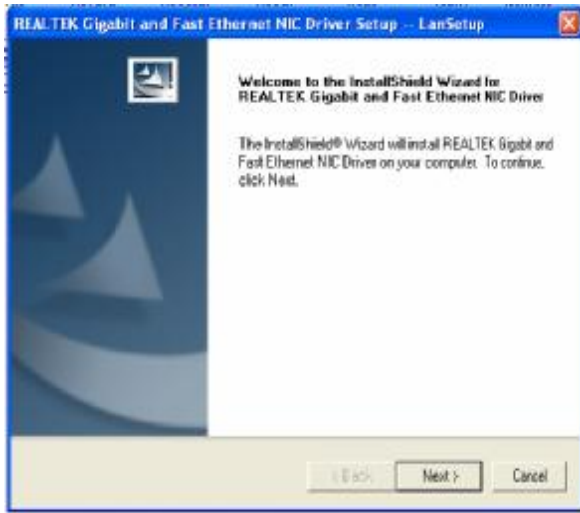
3.7. LAN Driver Installation



- a. Click the “Win9x_ME_...” on the “Rtl8139_810x” window.



- b. Click the "Setup" button on the “Win9x_ME_2K_XP_...” window.



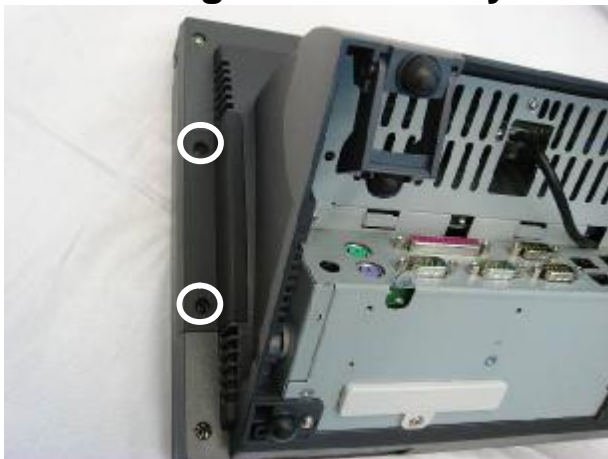
- c. Click the “Next” on the “REALTEK Gigabit and Fast Ethernet NIC Driver Setup” window.



- d. Click the “Finish” on the “REALTEK Gigabit and Fast Ethernet NIC Driver Setup” window.

4. Peripherals Installation

4.1. Programmable Keyboard Installation



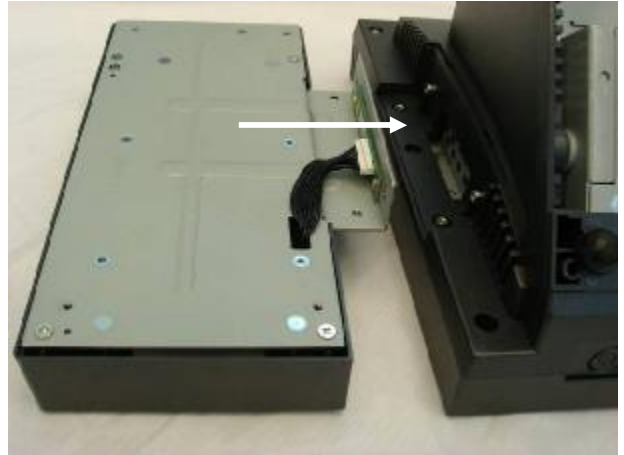
- a. Remove the screws (2).



- b. Remove the screws (4) on the keypad cover.



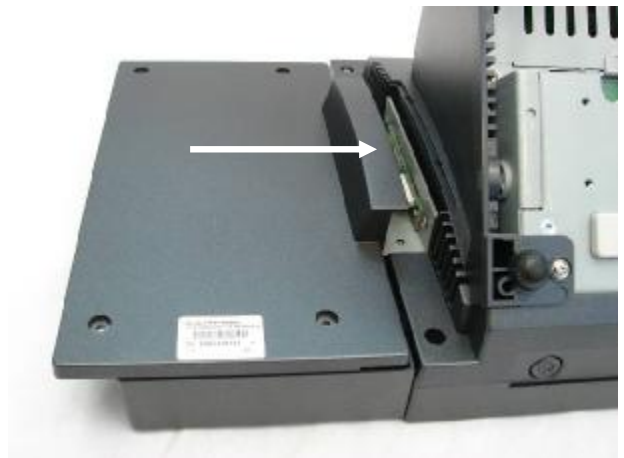
c. Remove the keypad cover.



d. Place the keypad into position.



e. Tighten the screws (2) to secure the keypad.



f. Place the cover into position.

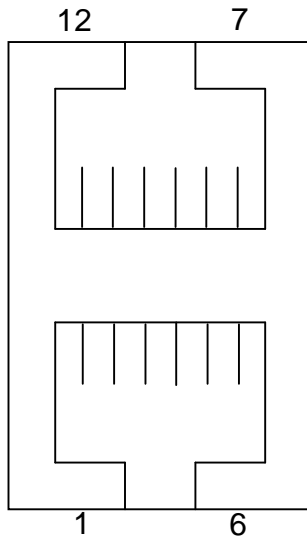


g. Tighten the screws (4).

4.2. Cash Drawer Installation

You can install a cash drawer through the cash drawer port. Please verify the pin assignment before installation.

4.2.1. Cash Drawer Pin Assignment



Pin	Signal	Pin	Signal
1	GND	7	GND
2	DOUT bit0	8	DOUT bit2
3	DIN bit0	9	DIN bit1
4	12V / 24V	10	12V / 24V
5	DOUT bit1	11	DOUT bit3
6	GND	12	GND

4.2.2 Cash Drawer Controller Register

The Cash Drawer Controller use two I/O addresses to control the Cash Drawer – The Cash Drawer Control Register and the Cash Drawer Status Register.

4.2.2.1 Cash Drawer Control Register and Cash Drawer Status Register

Register Location: I/O port 4B8h
 Attribute: Write / Read
 Size: 8bit

BIT	BIT7	BIT6	BIT5	BIT4	BIT3	BIT2	BIT1	BIT0
Attribute	Reserved	Reserved	Read	Read	Write	Write	Write	Write

Bit 7: Reserved.

Bit 6: Reserved.

Bit 5: Cash Drawer2 “DIN bit1” pin input status.

= 1: the Cash Drawer2 closed or no Cash Drawer.

= 0: the Cash Drawer2 opened.

Bit 4: Cash Drawer1 “DIN bit0” pin input status.

= 1: the Cash Drawer1 closed or no Cash Drawer.

= 0: the Cash Drawer1 opened.

Bit 3: Cash Drawer2 “DOUT bit3” pin output control.

= 1: Opening the Cash Drawer2

= 0: Allow closing the Cash Drawer2

Bit 2: Cash Drawer2 "DOUT bit2" pin output control.

= 1: Opening the Cash Drawer2

= 0: Allow closing the Cash Drawer2

Bit 1: Cash Drawer1 "DOUT bit1" pin output control.

= 1: Opening the Cash Drawer1

= 0: Allow closing the Cash Drawer1

Bit 0: Cash Drawer1 "DOUT bit0" pin output control.

= 1: Opening the Cash Drawer1

= 0: Allow closing the Cash Drawer1

Note: Please follow the Cash Drawer control signal design to control the Cash Drawer.

4.2.3 Cash Drawer control command example

Use Debug.EXE program under DOS or Windows98

Command	Cash Drawer
O 4B8 01	Opening
O 4B8 00	Allow to closing
Ø Set the I/O address 4B8h bit0 =1 for opening the Cash Drawer1 by "DOUT bit0" pin control.	
Ø Set the I/O address 4B8h bit0 = 0 to allow closing Cash Drawer1.	

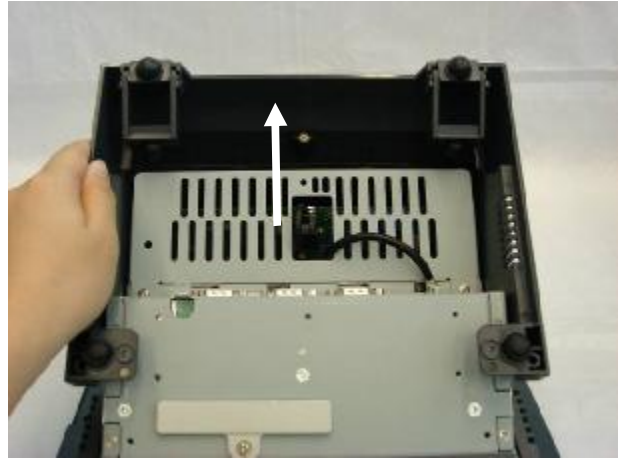
Command	Cash Drawer
I 4B8	Check status
Ø The I/O address 4B8h bit4 =1 means the Cash Drawer1 is closed or no Cash Drawer.	
Ø The I/O address 4B8h bit4 =0 means the Cash Drawer1 is open.	

5. System Disassembly

5.1. Remove Base Chassis



a. Remove the screws (3).



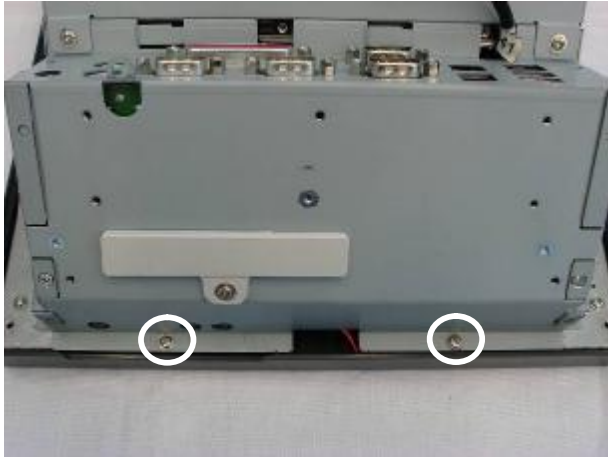
b. Lift the base cover up and remove it.



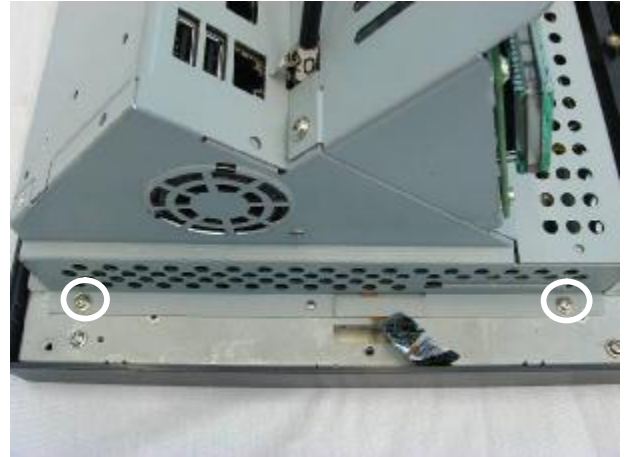
c. Remove the screws (5).



d. Remove the screws (2) to lift the LCD back cover up.



e. Remove the screws (2).



f. Remove the screws (2).



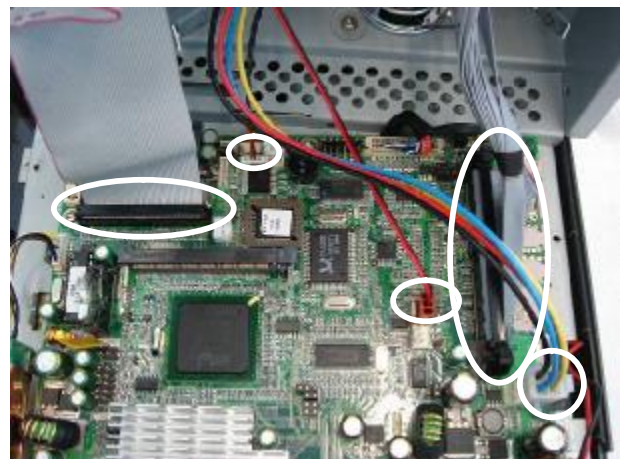
g. Remove the screws (2).



h. Remove the screws (2).



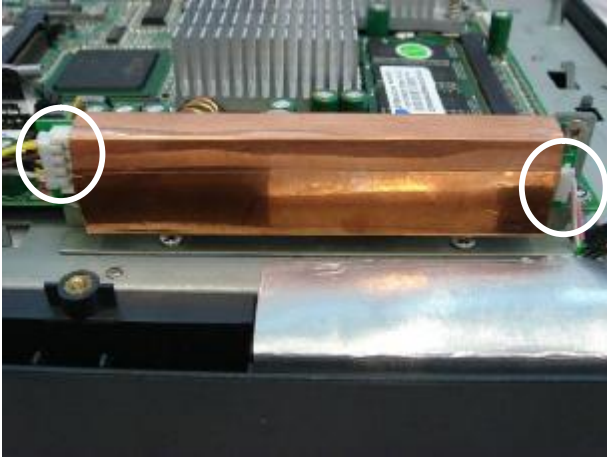
i. Lift the base chassis to disengage it from the LCD chassis and place it next to the LCD chassis, taking care not to stretch the cables which are still connected.



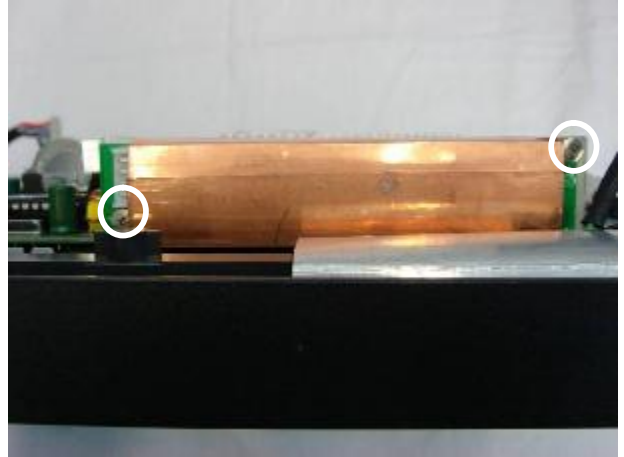
j. Disconnect the cables (5): fan cable, PWR1 cable, 100pin cable, speaker & MIC cable and IDE cable.

5.2. Replace Inverter Board & MSR

To replace the inverter board and the MSR, please first follow the steps in chapter 5.1.



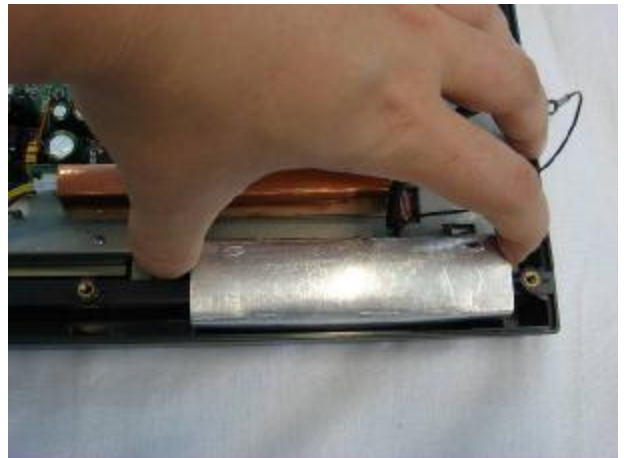
a. Disconnect the cables (2).



b. Remove the screws (2) to replace the inverter board.



c. Disconnect the card reader cable (1).



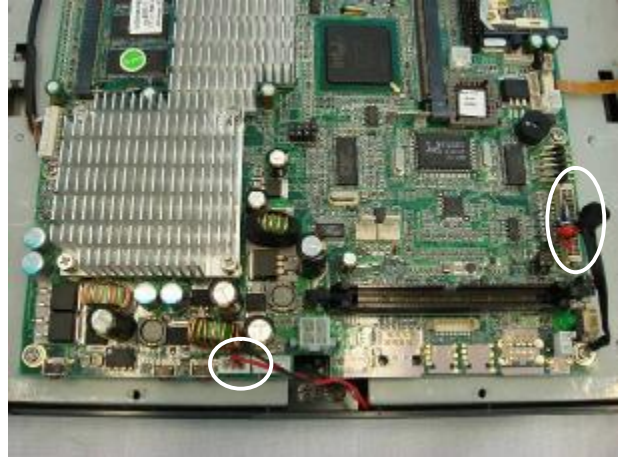
d. Remove the MSR.

5.3. Replace Mainboard

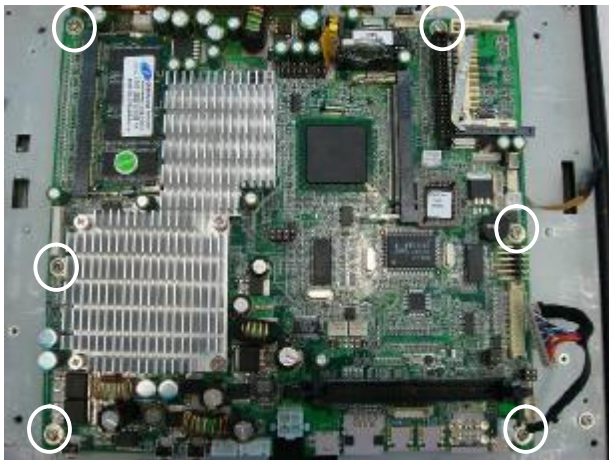
To replace the mainboard, please first follow the steps in chapter 5.1.



a. Disconnect the cables (3): card reader cable, inverter cable and touch cable.



b. Disconnect the cables (2): power/LAN LED cable and LCD Interface cable.



c. Remove the screws (6) to replace the mainboard.

5.4. Replace the Touch Screen & LCD Panel

To replace the touch screen and the LCD panel, please first follow the steps in chapter 5.1.



a. Disconnect the cables (2): card reader cable and touch cable.



b. Disconnect the cables (2): power/LAN LED cable and LCD Interface cable.



c. Remove the screws (4) to separate the LCD panel and touch screen.



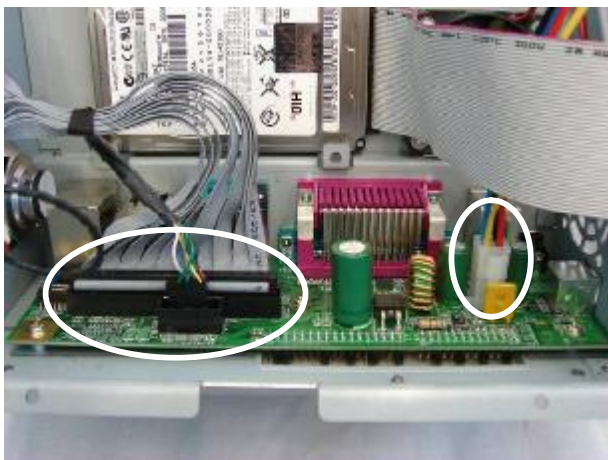
d. Remove the screws (4) to replace the LCD panel.



- e. Remove the screws (9) to replace the touch screen.

5.5. Replace I/O Board

To replace the I/O board, please first follow the steps in chapter 5.1.



- a. Disconnect the cables (3): 100pin cable, customer display cable and PWR cable.



- b. Remove the screws (3).



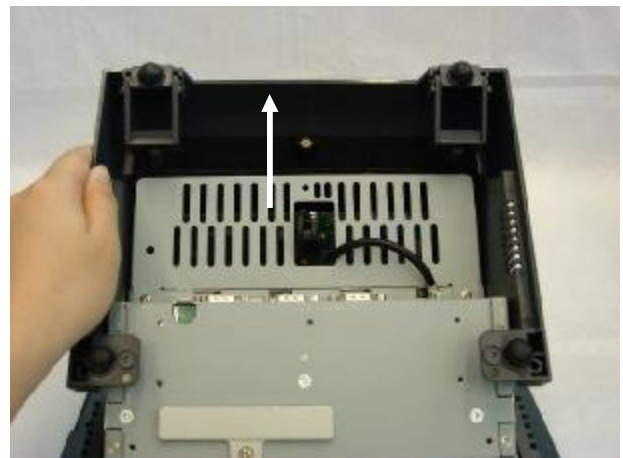
c. Remove the hex screws (10) to replace the I/O board.

5.6. Replace Customer Display & HDD & FAN

To replace the customer display, the HDD and the fan, please first follow the steps in chapter 5.1.



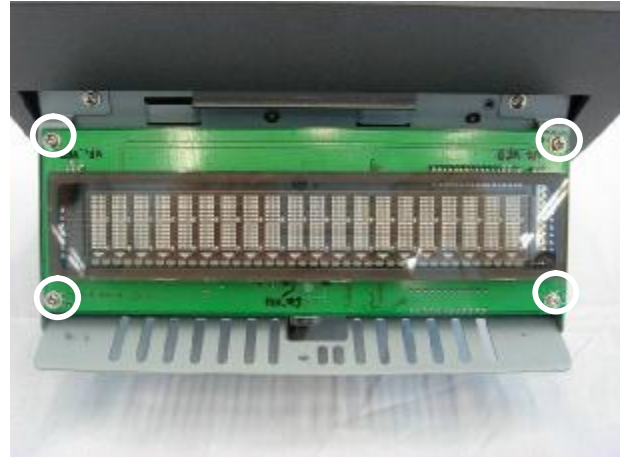
a. Remove the screws (3).



b. Lift the base cover up and remove it.



c. Disconnect the cable (1).



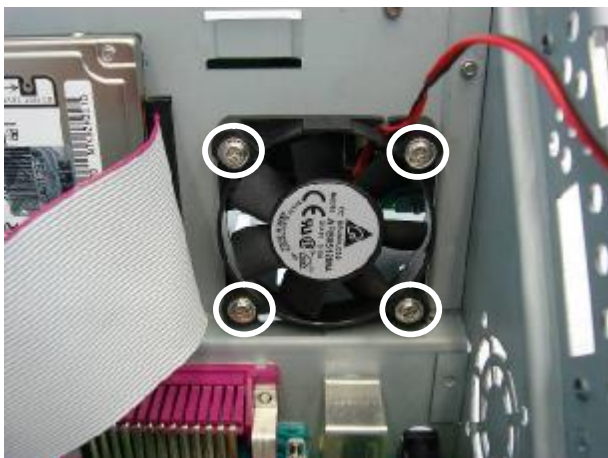
d. Remove the screws (4) to replace the customer display.



e. Disconnect the cable (1).



f. Remove the screws (4) to replace the HDD.



g. Remove the screws (4) to replace the fan.

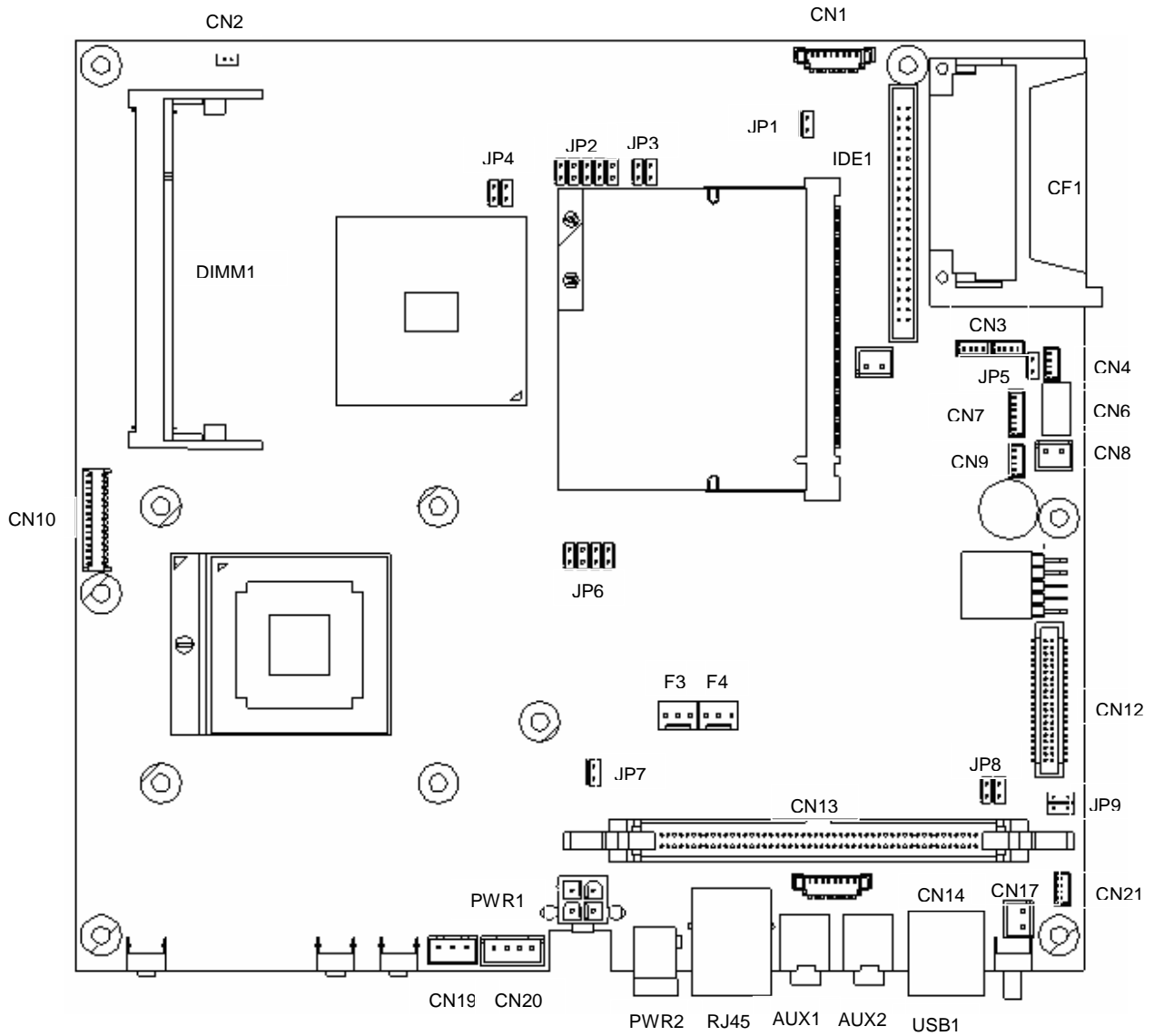
6. Specification

Mainboard	B76
CPU Supports	Intel ULV BGA Celeron M 800MHz / 1.0GHz
Chipset	Intel 852GM&ICH4 FSB 400Mhz
System Memory	1 x SO-DIMM socket supported with memory size up to 1GB
LCD Touch Panel	
LCD Size	10.4" TFT
Brightness	230 cd / m ²
Maximal Resolution	800 x 600
Touch Screen Type	Resistive
Tilt Angle (Degree)	55° ~ 65°
Storage	
HDD	1 x Slim HDD Drive Bay
Flash Memory	Compact Flash (Type I & II)
Expansion	
Mini-PCI Socket	1
External I/O Ports	
PS/2 Keyboard	2 (either one on rear or side)
PS/2 Mouse	1
USB	2 (2.0)
Serial / COM	4 (Pin 1 / 9 with 5V / 12V)
Parallel	1
LAN (10 / 100)	1
Cash Drawer Port	2 (12V / 24V)
Internal Speaker	1 x 1W
DC Jack	1 (19V)
Control / Indicator	
Power Button	1
Indicator LED	Power
Power	
Power Adapter	External 90W AC
Environment	
EMC & Safety	FCC, Class B, CE, LVD
Operating Temperature	5°C ~ 35°C (41°F ~ 140°F)

Environment	
Storage Temperature	-10°C ~ 60°C (14°F ~ 140°F)
Operating Humidity	10% - 90% RH non condensing
Storage Humidity	10% - 90% RH non condensing
Peripheral	
Magnetic Card Reader	3 track RS232 / Keyboard type
Programmable Keyboard	32 keys with key lock
Smart Card Reader	Embedded 32 keys programmable keyboard
Customer Display	Fix mounted type
Wireless LAN	Mini PCI 802.11 a / b / g WI-FI card and antenna
Dimensions (W x D x H)	274 x 230 x 240 mm / 10.8" x 9.1" x 9.4"
Weight	N.W. 6Kg / 13.2lbs G.W. 6.5Kg / 14.3lbs
OS Support	Windows XP, WEPOS, Windows XP Embedded, Windows XP Professional Embedded, Windows 2000 Professional Embedded; Linux

7. Connectors & Jumper Settings

1. B76 Motherboard



2. Connectors

Connector	Function
CN1	Inverter CONN
CN2	LED
CN3	USB5/6
CN4	LINE-IN CONN
CN6	4WIRE TOUCH
CN7	Speaker & MIC CONN
CN8	I-Bottom CONN
CN9	Support VFD (COM6)
CN10	Card Reader Connector (PS2, COM4)
CN12	LCD Interface
CN13	100 pin Connector to IO Board (USB, COM...etc.)
CN14	COM5 CONN for Touch
CN17	Power Switch
CN19	For Power/LAN LED CONN

Connector	Function
CN20	Power Connector For Extend COM Port
CN21	Programmable Keyboard (PS2)
F3	CPU FAN CONTROL
F4	SYSTEM FAN CONTROL
DIMM1	DDR Memory
IDE1	2.5" IDE Device
PWR1	PWR CONN
PWR2	DC JACK
RJ45_1	LAN Connector
CF1	CF CARD CONN
AUX1	LINE OUT
AUX2	MIC IN
USB1	USB 3 / USB4 port

3. Motherboard Jumper Settings

1. CMOS Operation Mode

Function	JP1
CMOS Normal	⊙N/C
CMOS Reset	1-2

To clear the CMOS:

- 1) Remove AC power from the unit.
- 2) Open the cabinet.
- 3) Change the JP1 jumper setting from N/C to 1-2.
- 4) Wait 1 minute.
- 5) Change the JP1 jumper setting back to N/C.
- 6) Close the cabinet.
- 7) Apply AC power and continue.

2. Compact Flash Master / Slave Setting

Function	JP5
Master	⊙1-2
Slave	N/C

3. Power Mode Setting

Function	JP7
ATX Power	⊙N/C
AT Power	1-2

4. I-Button Setting

Function	JP8
Use I-Button	N/C
No I-Button	⊙1-2 3-4

5. LCD ID Setting

Panel Number	Resolution	LVDS		JP6			
		Bits	Channel	1-2	3-4	5-6	7-8
0	640 x 480	18	Single	SHORT	SHORT	SHORT	SHORT
1	800 x 600	18	Single	SHORT	SHORT	SHORT	OPEN
2	1024 x 768	18	Single	SHORT	SHORT	OPEN	SHORT
3	1280 x 1024	24	Dual	SHORT	SHORT	OPEN	OPEN
4	1024 x 768	24	Single	SHORT	OPEN	SHORT	SHORT
5	800 x 600	24	Single	SHORT	OPEN	SHORT	OPEN

6. Programmable Keyboard Setting

Function	JP9
Use P-KB	N/C
No P-KB	⊙1-2 3-4

Note:



OPEN



SHORT

4. I/O Jumper Settings

1. Cash Drawer Power / COM2 / COM1 (SHORT)

⊙ Factory Default Setting

JP 1	NC	NC
	CD_PWR	+24V ⊙
		+24V ⊙
		+12V
		+12V
	COM2_9	+12v
		+5v
		RI ⊙
	COM2_1	+12V
		+5V
		DCD ⊙
	COM1_9	+12v
		+5v
		RI ⊙
	COM1_1	+12V
+5V		
DCD ⊙		

2. COM4 / COM3 (SHORT)

JP2	COM4_9	+12v
		+5v
		RI ⊙
	COM4_1	+12V
		+5V
		DCD ⊙
	COM3_9	+12v
		+5v
		RI ⊙
	COM3_1	+12V
		+5V
		DCD ⊙

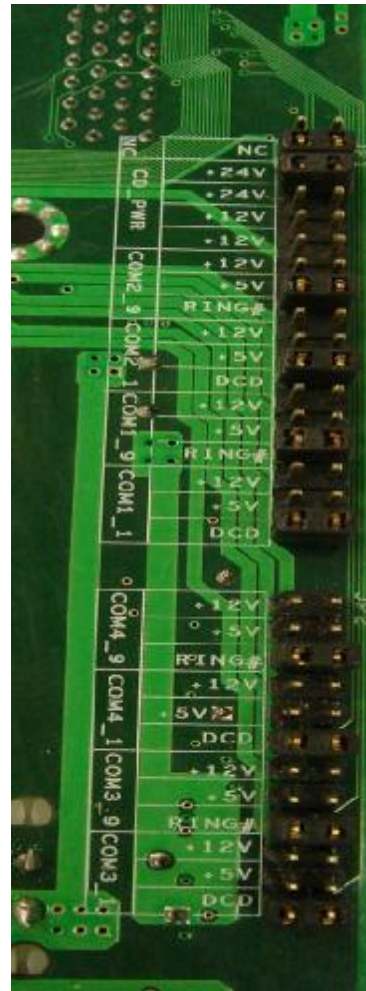
Note:



OPEN



SHORT



5. Connectors Pin Definition

CN1: Inverter CONN

Pin 1	+12V_INV
Pin 3	+12V_INV
Pin 5	VRSET
Pin 7	GND

Pin 2	+12V_INV
Pin 4	BKLEN
Pin 6	GND
Pin 8	GND

CN3: USB 5 / USB 6

Pin 1	+5V_USB 4
Pin 3	USB20_R_P4+
Pin 5	+5V_USB 5
Pin 7	USB20_P5+

Pin 2	USB20_R_P4-
Pin 4	GND
Pin 6	USB20_P5-
Pin 8	GND

CN4: Line-In CONN

Pin 1	GND
Pin 3	LINE_IN_L

Pin 2	LINE_IN_R
Pin 4	GND

CN6: 4 Wire Touch

Pin 1	ESD 1
Pin 3	ESD 3

Pin 2	ESD 2
Pin 4	ESD 4

CN7: Speaker & MIC CONN

Pin 1	AMP_ORL
Pin 3	GND
Pin 5	GND

Pin 2	GND
Pin 4	AMP_ORR
Pin 6	MIC 1

CN9: Support VFD

Pin 1	+12V
Pin 3	RS232_4_RX#

Pin 2	RS232_4_TX#
Pin 4	GND

CN10: Card Reader Connector

Pin 1	+5V
Pin 3	KDATA_SIO_TO_MSR
Pin 5	KDATA_MSR_TO_IBT
Pin 7	RS232_CR_RX#
Pin 9	RS232_CR_CTS#
Pin 11	KB_EN
Pin 13	USB 20_MSR_P4+
Pin 15	GND

Pin 2	+5V
Pin 4	KCLK_SIO_TO_MSR
Pin 6	KCLK_MSR_TO_IBR
Pin 8	RS232_CR_TX#
Pin 10	RS232_CR_RTS#
Pin 12	GND
Pin 14	USB20_MSR_P4+

CN11: Internal Touch

Pin 1	ESD 1
Pin 3	ESD 2
Pin 5	ESD 3
Pin 7	ESD 4
Pin 9	ESD 5
Pin 11	NC

Pin 2	ESD 1
Pin 4	ESD 2
Pin 6	ESD 3
Pin 8	ESD 4
Pin 10	ESD 5
Pin 12	NC

CN12: LVDS Interface

Pin 1	LVDS_B0+
Pin 3	LVDS_B0-
Pin 5	GND
Pin 7	LVDS_B1+
Pin 9	LVDS_B1-
Pin 11	GND
Pin 13	LVDS_B2+
Pin 15	LVDS_B2-
Pin 17	GND
Pin 19	LVDS_B3+
Pin 21	LVDS_B3-
Pin 23	GND
Pin 25	LVDS_CLKB+
Pin 27	LVDS_CLKB-
Pin 29	GND
Pin 31	+5V_LCDVDD
Pin 33	+5V_LCDVDD
Pin 35	+5V_LCDVDD

Pin 2	LVDS_A3+
Pin 4	LVDS_A3-
Pin 6	GND
Pin 8	LVDS_CLKA+
Pin 10	LVDS_CLKA-
Pin 12	GND
Pin 14	LVDS_A2+
Pin 16	LVDS_A2-
Pin 18	GND
Pin 20	LVDS_A1+
Pin 22	LVDS_A1-
Pin 24	GND
Pin 26	LVDS_A0+
Pin 28	LVDS_A0-
Pin 30	GND
Pin 32	+3.3V_LCDVDD
Pin 34	+3.3V_LCDVDD
Pin 36	+3.3V_LCDVDD

CN12: LVDS Interface

Pin 37	+5V_LCDVDD	Pin 38	+3.3V_LCDVDD
Pin 39	+5V_LCDVDD	Pin 40	+3.3V_LCDVDD

CN14: COM 5 CONN for External Touch

Pin 1	RS232_5_DCD#	Pin 2	RS232_5_RX#
Pin 3	RS232_5_TX#	Pin 4	RS232_5_DTR#
Pin 5	GND	Pin 6	RS232_5_CTS#
Pin 7	RS232_5_RTS#	Pin 8	RS232_5_CTS#
Pin 9	RS232_5_RI	Pin 10	+5V

CN16: USB 4

Pin 1	+5V_USB3	Pin 2	USB20_P3-
Pin 3	USB20_P3+	Pin 4	GND

CN18: USB 3

Pin 1	+5V_USB2	Pin 2	USB20_P2-
Pin 3	USB20_P2+	Pin 4	GND

CN19: For Power/LAN LED CONN

Pin 1	GND	Pin 2	+5V
Pin 3	LAN_LINK#		

CN20: Power Connector For Extend COM Port

Pin 1	+12V	Pin 2	GND
Pin 3	GND	Pin 4	+5V

8. BIOS Settings

1. BIOS Setup Utility

The BIOS setup defines how the system is configured. You need to run this program the first time you configure this product. You may need to run it again if you change the configuration.

You need to connect a PC keyboard to the keyboard connector to run the BIOS setup utility.

2. Starting the BIOS Setup

1. Turn on or reboot this product.
2. Press the DEL key immediately after the product is turned on, or press the DEL key when the following message is displayed during POST (the Power on Self-Test).

Press DEL to enter SETUP.

3. The main menu of the BIOS setup is displayed.
4. If the supervisor password is set, you must enter it here.

3. When a Problem Occurs

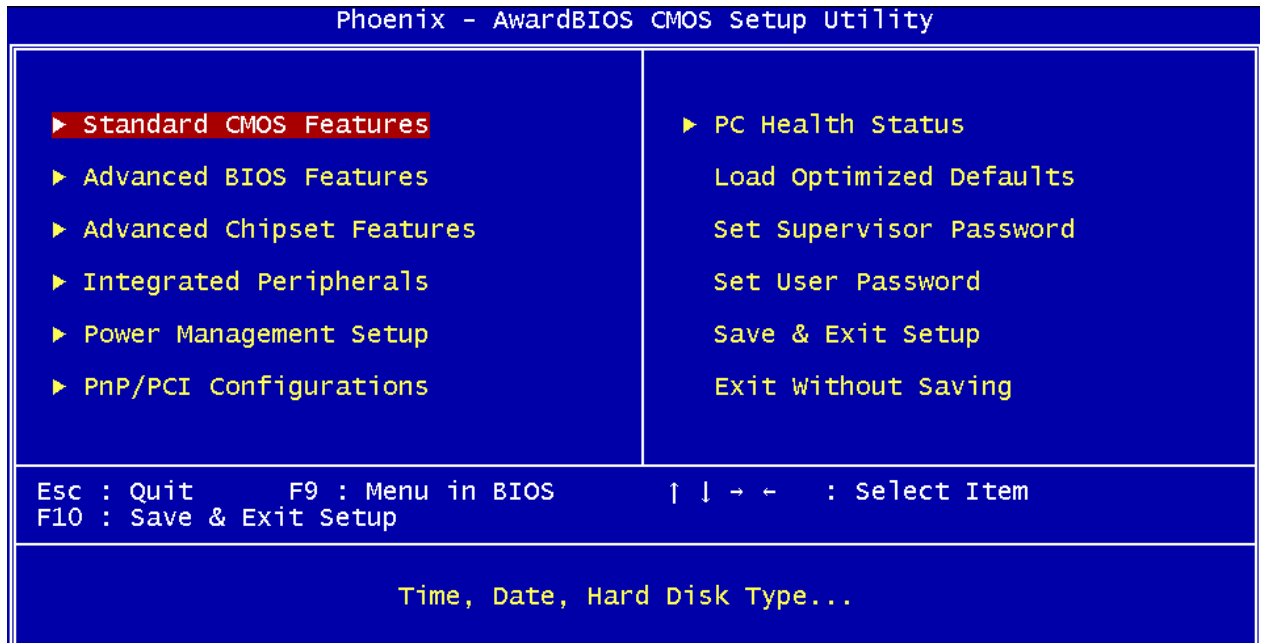
If, after making and saving system changes with the Setup utility, you find that this product no longer boots, start the BIOS setup and execute the following.

Load Optimized Defaults

4. BIOS Main Menu

When the BIOS Main Menu is displayed, the following items can be selected. Use the arrow keys to select items and the Enter key to accept and enter the sub-menu.

Note: The BIOS menu below is from B76 BIOS version B76MV10.BIN. If you have a different BIOS version, the contents of the menu may differ.



Standard CMOS Features

Use this menu for basic system configuration.

Advanced BIOS Features

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

Advanced Chipset Features

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

Integrated Peripherals

Use this menu to specify your settings for integrated peripherals.

Power Management setup

Use this menu to specify your settings for power management.

PnP/PCI Configurations

This entry appears if your system supports Plug and Play and PCI Configuration.

PC health status

Displays CPU, System Temperature, Fan Speed, and System Voltages Value.

Load Optimized Defaults

Use this menu to load the BIOS default values, i.e., factory settings for optimal performance system operations. While Award has designed the custom BIOS to maximize performance, the factory has the option to change these defaults to meet their needs.

Set Supervisor Password

Enables you to change, set, or disable the supervisor or user password.

Set Password

Change, set, or disable the password. It allows you to limit access to the system and to the setup, or just to the setup.

Save & exit setup

Save CMOS value changes to CMOS and exits setup.

Exit without saving

Ignores all CMOS value changes and exits setup.