

User Manual

September 2007 Revision 1.2



Point – of- Sale Hardware System



P/N: 48201271

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Manual Version 1.2

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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 2004/108/EC with regard to "Electromagnetic compatibility" and 2006/95/EC "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.

Revision History

Revision Number	Description	Revision Date
1.0	Initial released	2007 March
1.1	System Disassembly updated	2007 May
1.2	Cover page updated Connector Pin Definition updated	2007 September

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1. Item Checklist

Take the system unit out of the carton. Remove the unit from the carton by holding it by the foam inserts. The following contents should be found in the carton:

1.1. Standard Items



a. Driver CD



b. System



c. Power Cable



d. User Manual

1.2. Optional Items



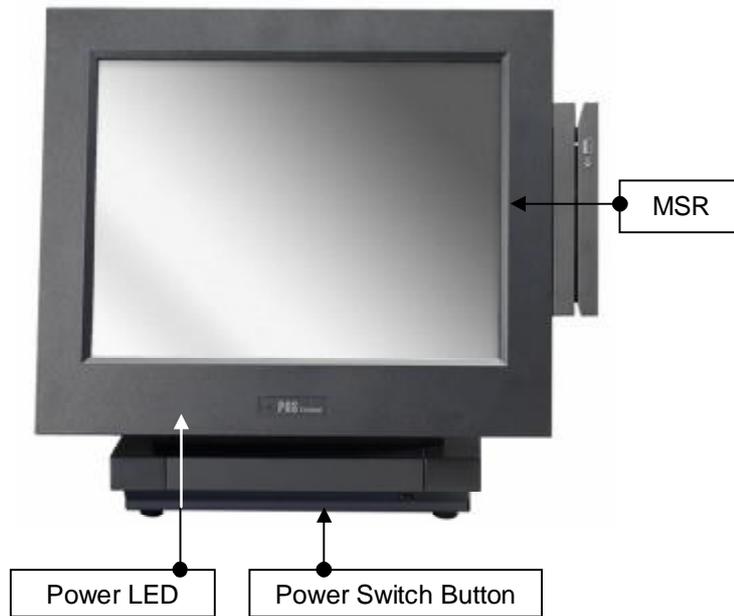
a. CF card holder



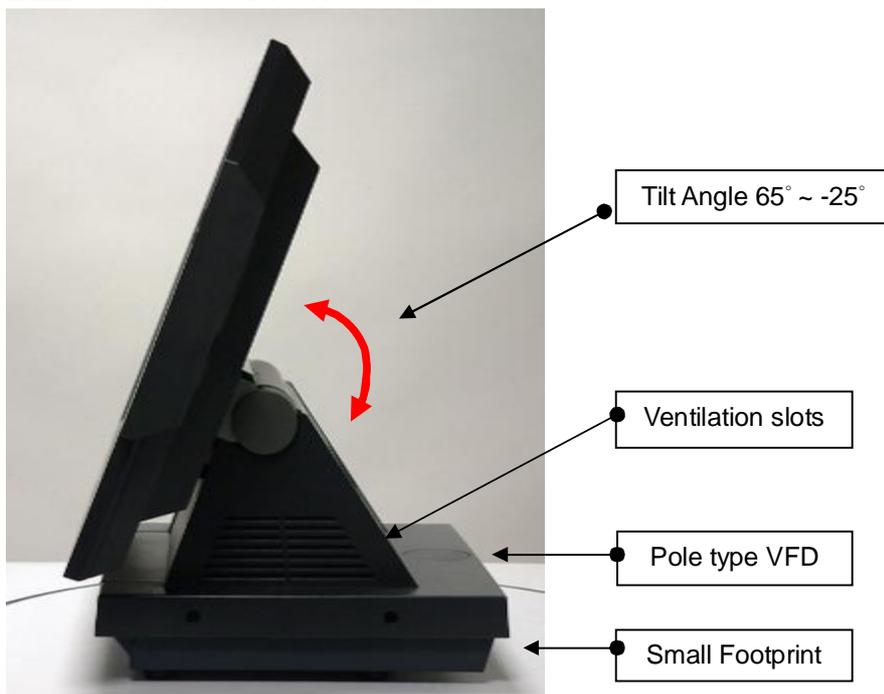
b. MSR

2. System View

2.1. Front View



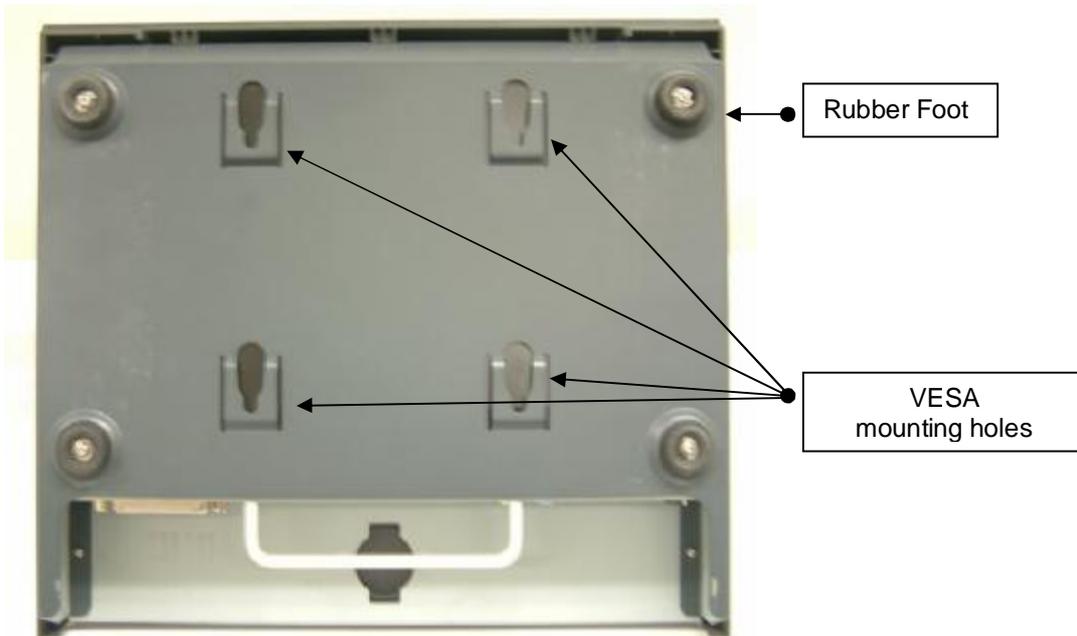
2.2. Side View



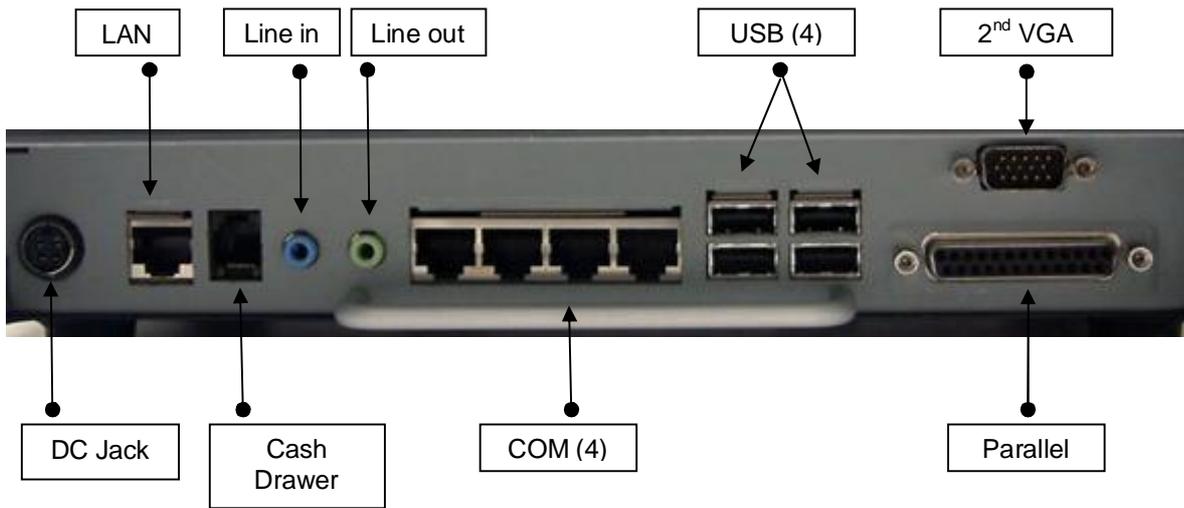
2.3. Rear View



2.4. Bottom View



2.5. I/O View



Note: The maximum current that can be drawn from each COM port is 500 mA.

3. Driver Installation

3.1. Driver List

Folder/File	File Description
<CD>:\POS360_B78.htm	B78 Driver List
<CD>:\COMMON\INTEL\Chipset	Chipset Driver
<CD>:\COMMON\INTEL\USB 20	USB 2.0 Driver
<CD>:\COMMON\INTEL\VGA\i85x	VGA Driver
<CD>:\COMMON\POS_Touch	POSTouch Driver
<CD>:\COMMON\Ac97_codec\Realtek\ALC202A	Audio Driver
<CD>:\COMMON\Lan_driver\R8139_810x	10/100Mb LAN Driver

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

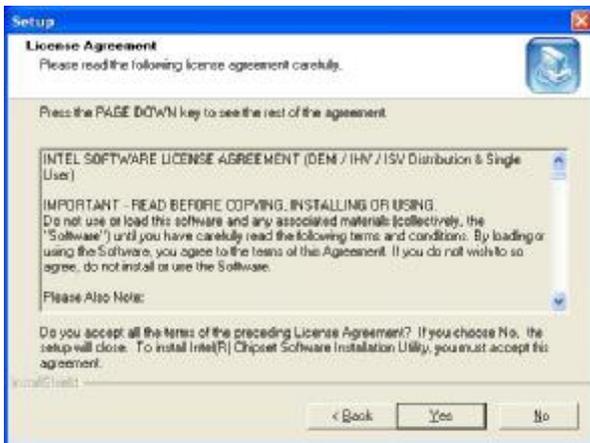
3.2. Chipset Driver Installation



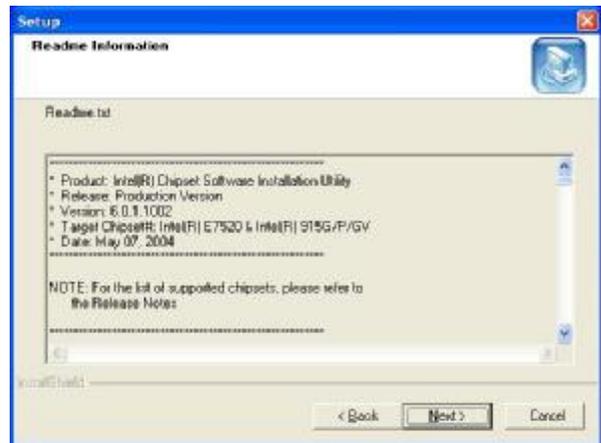
a. Double click “infint_enu_6.0.1.1002” on the My computer window.



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



c. Click the “Yes” button on the License Agreement window.



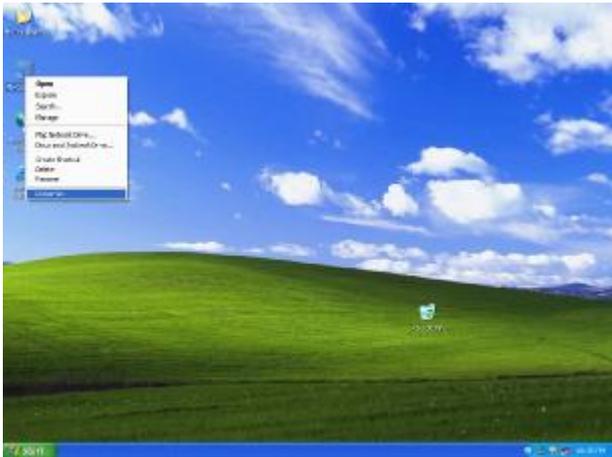
d. Click the “Next” button on the Readme Information window.



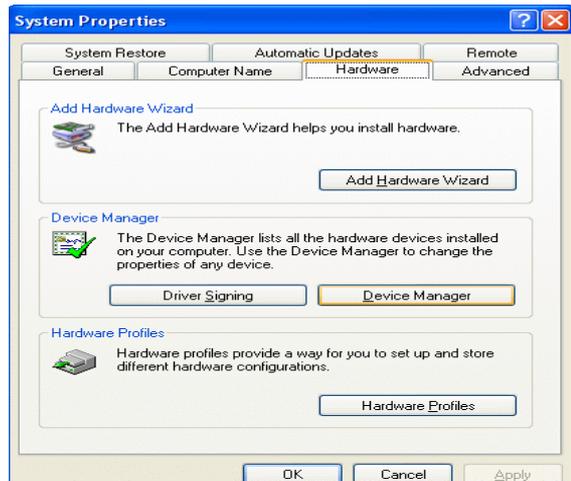
e. Click the “Finish” button and restart your system.

3.3. USB 2.0 Driver Installation OS Requirements

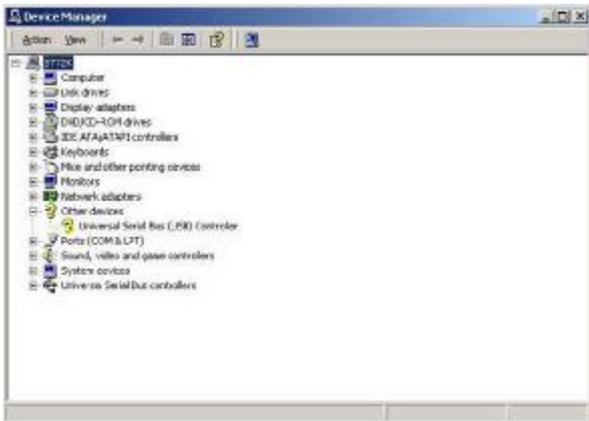
OS	USB 2.0 requirements
Windows XP	USB 2.0 drivers are provided in Service Pack 1 (SP1) for Windows XP, which is available through Windows Update .
Windows 2000	USB 2.0 drivers are available through Windows Update or Service Pack 4.
Windows 98SE/Me	USB 2.0 drivers are available on the Intel developer 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 .



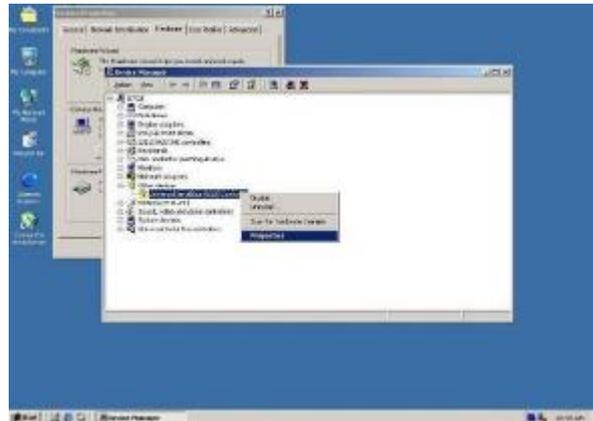
a. Right click My Computer on the desktop and select "Properties"



b. Select "Hardware" and "Device Manager" on System Properties.



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



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



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



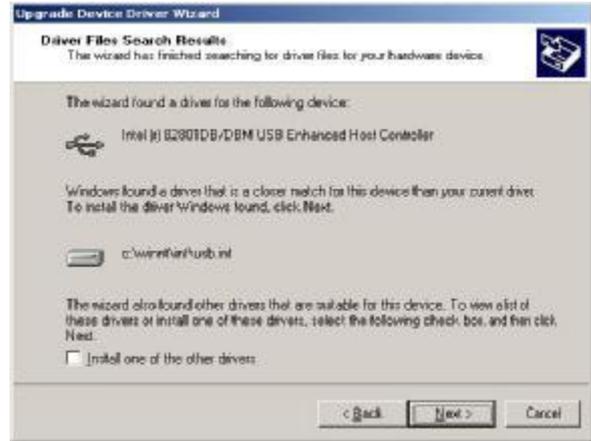
f. Select "Search for a suitable..." and click the "Next" button on the Install Hardware Device Drivers window.



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



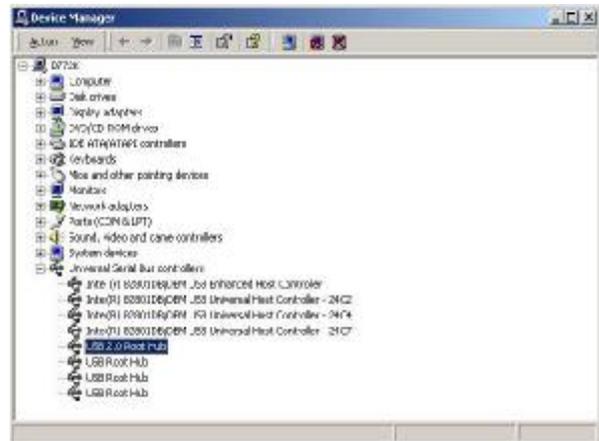
h. Press “Browse” to select the driver and then click the “OK” button to go to the next page.



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

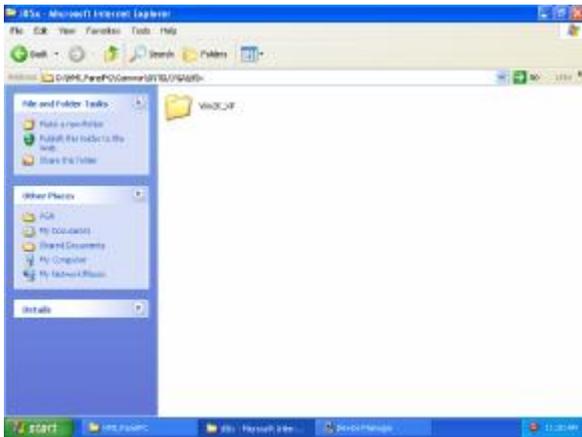


j. Click the “Finish” button to complete this process.

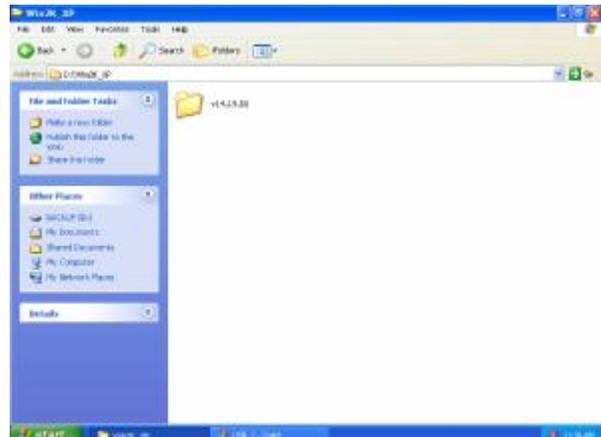


k. Finished.

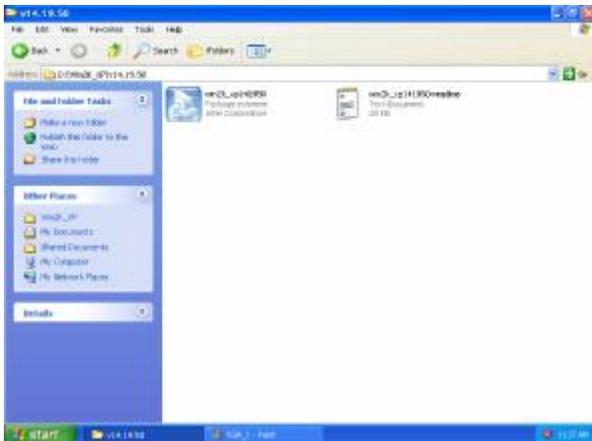
3.4. VGA Driver Installation



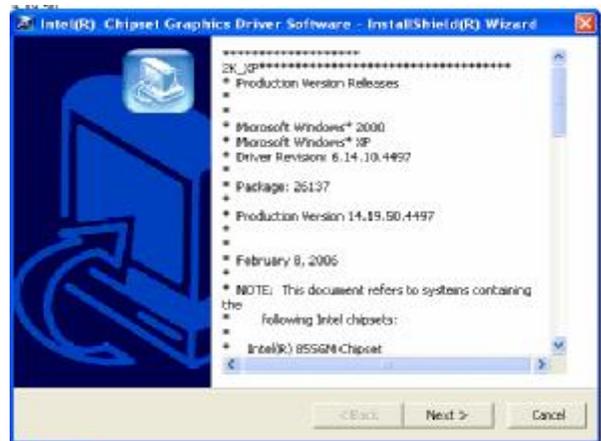
a. Click the “Win2K_XP” on the My Computer window.



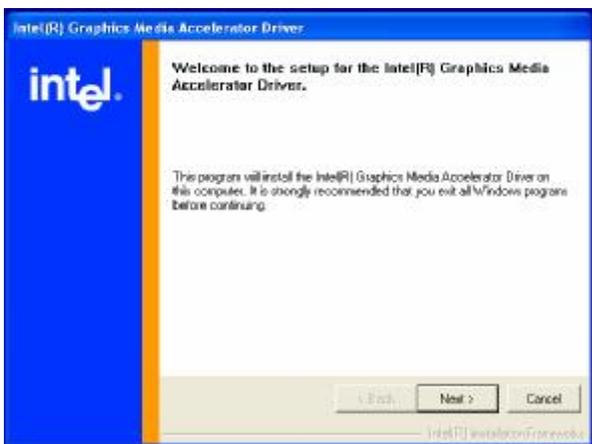
b. Click the “v14.19.50” on the My Computer window.



c. Select “win2k_xp141950” on the v14.19.50 window.



d. Click the “Next” button on the Intel(R) Chipset Graphics Driver Software-InstallShield(R) Wizard window.



e. Click the “Next” button on the Intel(R) Graphics Media Accelerator Driver window.

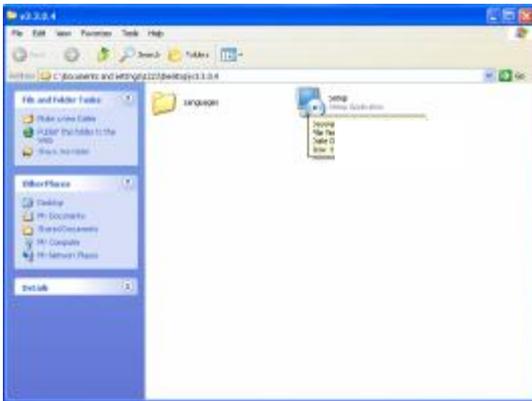


f. Click the “Yes” button on the Intel(R) Graphics Media Accelerator Driver window.



- g. Select “Yes, I want to restart my computer now” and click the “Finish” button on the Intel(R) Graphics Media Accelerator Driver window.

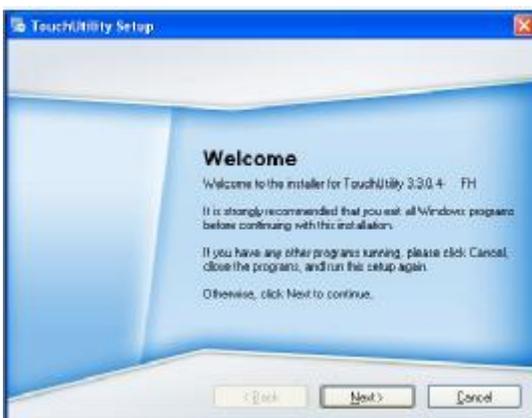
3.5. POSTouch Driver Installation



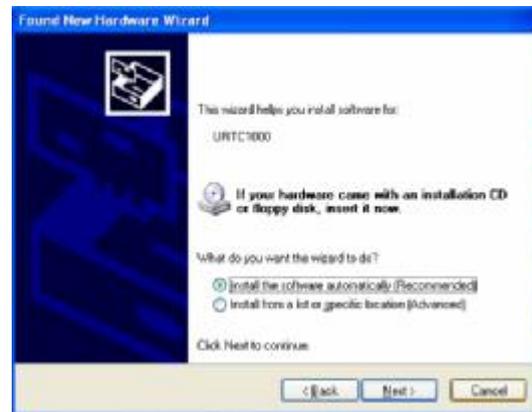
- a. Double click the “Setup” on the “My Computer” window.



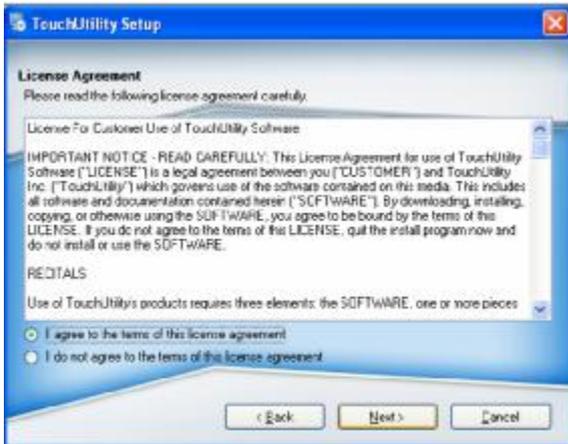
- b. Click the “Next” button on the “Welcome window”.



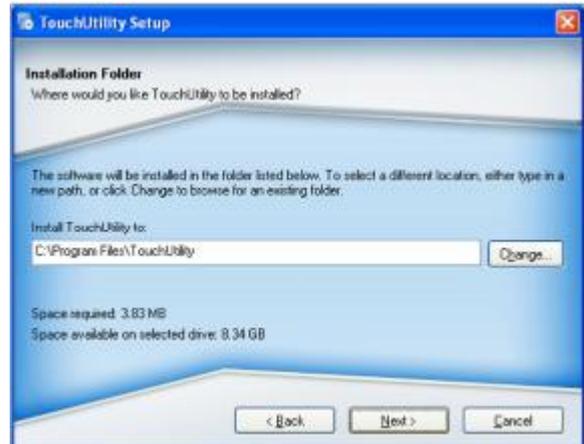
- c. Click the “next” button on the “Wellcome” window.



- d. Select “Install the software automatically” and click the “Next” button on the “URTC1000” window



e. Click the “Next” button on the “License Agreement” window.



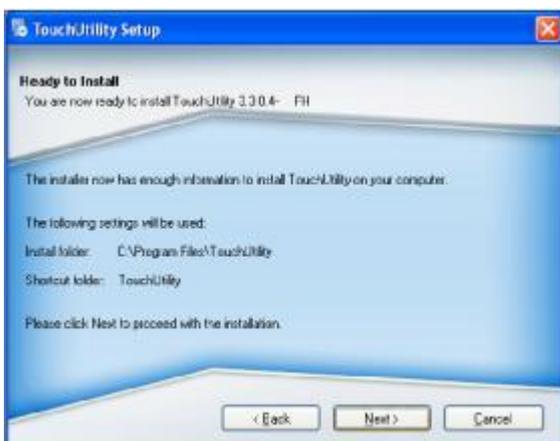
f. Click the “Next” button on the “Install Folder” window.



g. Click the “Next “ button on the “Shortcut Folder” window.



h. Select the “USB” and click the ”Next” button on the “Options” window.



i. Click the “Next” button on the “Ready to Install” window



j. Click the “Continue Anyway” button on the URTC-1000 window

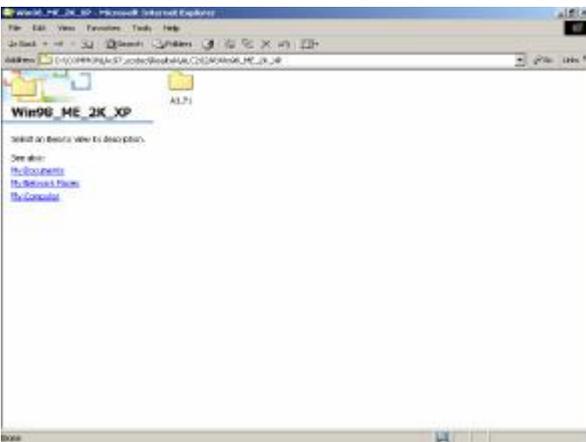


k. Click the "Finish" button on the "Installation Successful" window .

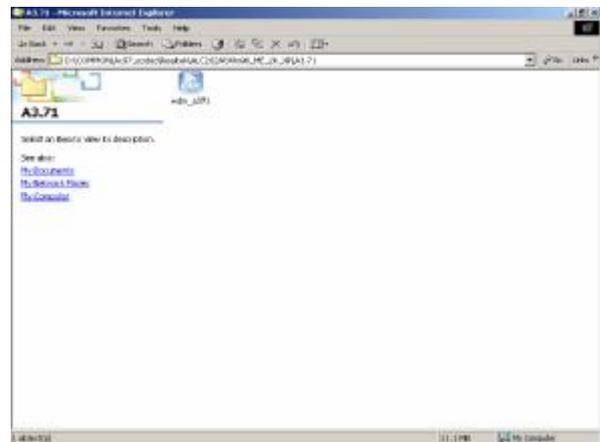


l. Click the "OK" button to reboot your computer

3.6. Audio Driver Installation



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



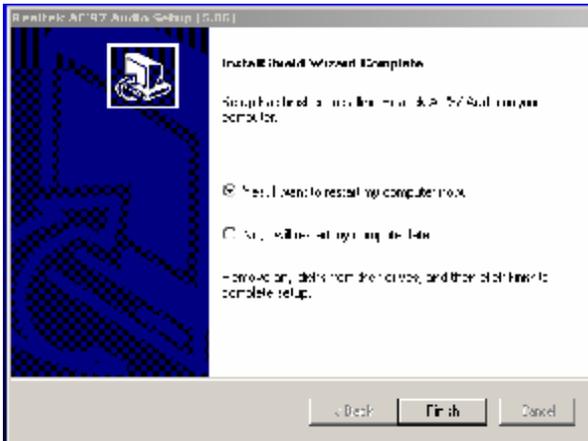
b. Double click "wdm_a371" on the My Computer window.



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

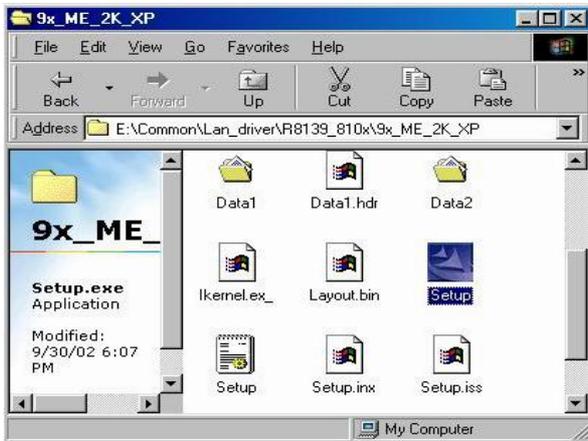


d. Click "Yes" button on the Digital Signature Not Found window.



e. Click “Finish” button on the Realtek AC’97 Audio Setup window.

3.7. 10/100Mb LAN Driver Installation



a. Double click “Setup” on the My Computer window.



b. Click the “Finish” button on the Maintenance Complete window.



c. Click the “OK” button and restart your system.

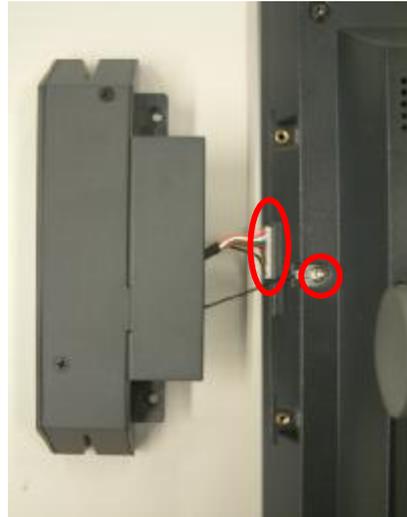
4. Peripherals Installation

4.1. Magnetic Card Reader Installation

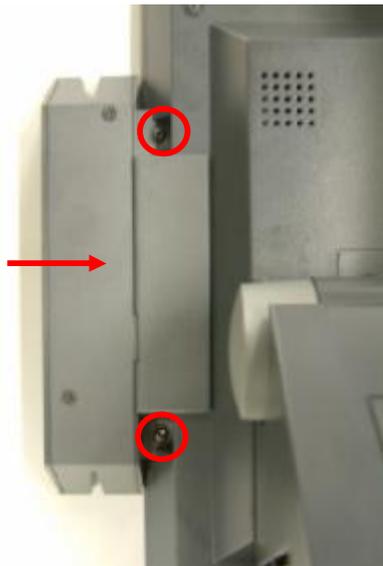
The MSR unit is tested and can be supplied at your request. This MSR is removed during transportation and can be connected by the user. There are two types of MSR Module: RS232 type and keyboard type.



a. Remove the screws (3) from the system.



b. Connect the MSR cable (1) and secure the grounding cable with screw (1).

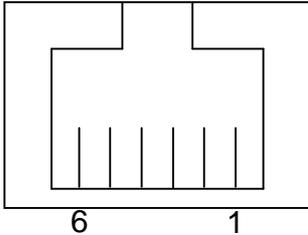


c. Place the MSR into the position and tighten the screws (2).

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
1	GND
2	DOUT bit0
3	DIN bit0
4	12V / 24V
5	DOUT bit1
6	GND

4.2.2. Cash Drawer Controller Register

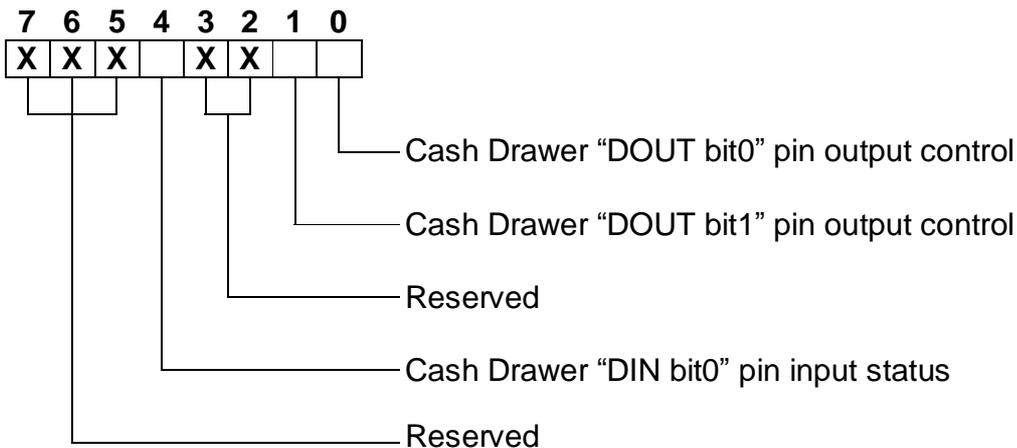
The Cash Drawer Controller use one I/O addresses to control the Cash Drawer.

Register Location: 4B8h

Attribute: Read / Write

Size: 8bit

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



Bit 7: Reserved.

Bit 6: Reserved.

Bit 5: Reserved.

Bit 4: Cash Drawer "DIN bit0" pin input status.
 = 1: the Cash Drawer closed or no Cash Drawer.
 = 0: the Cash Drawer opened.

Bit 3: Reserved.

Bit 2: Reserved.

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

= 1: Opening the Cash Drawer

= 0: Allow closing the Cash Drawer

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

= 1: Opening the Cash Drawer

= 0: Allow closing the Cash Drawer

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 Drawer by "DOUT bit0" pin control.
Ø Set the I/O address 4B8h bit0 = 0 to allow closing Cash Drawer.

Command	Cash Drawer
I 4B8	Check status

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

5. System Disassembly

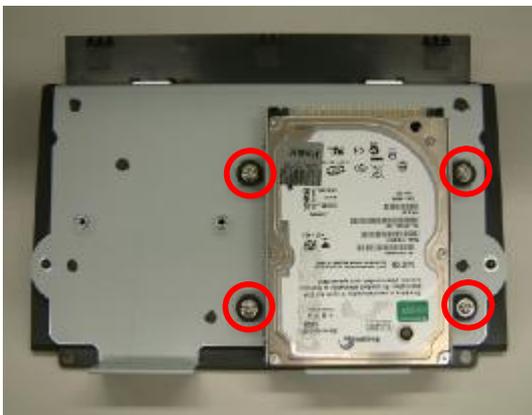
5.1. Replacing HDD



a. Loosen the thumb screws (2) to remove the front side stand cover.



b. Disconnect the IDE cable



c. Remove the screws (4) to release the HDD holders from the front side stand cover

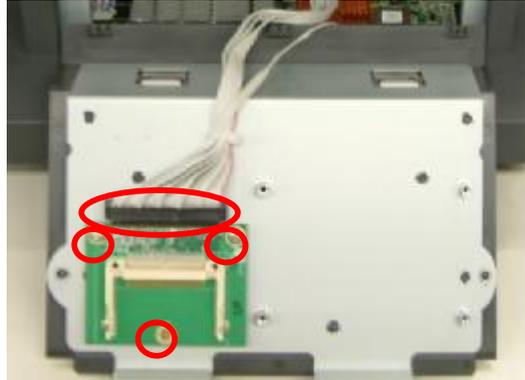


d. Remove the screws(4) (two from each side) to release the HDD holders(2) from the HDD

5.2. Replacing CF Card Holder (Optional)



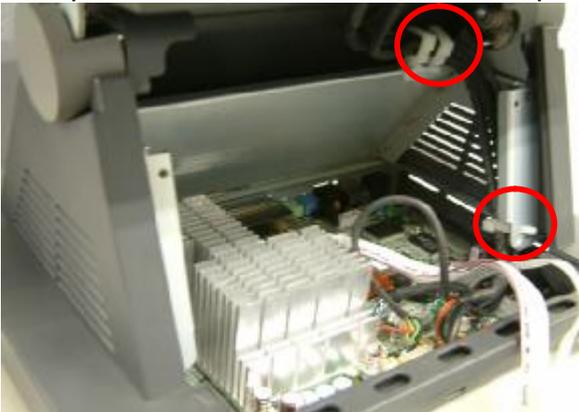
a. Loosen the thumb screws (2) to remove the front side stand cover.



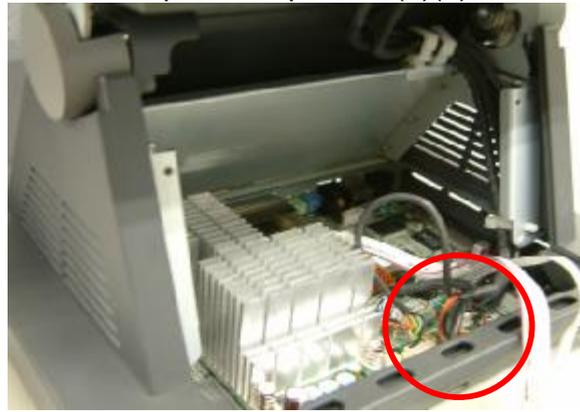
b. Disconnect the IDE cable and remove the screws(3) to replace the CF card holder.

5.3. Replacing Mainboard & I/O Board

To replace Main Board and I/O Board, please follow the steps in chapter 5.1(a)(b)



a. Unhook the clips



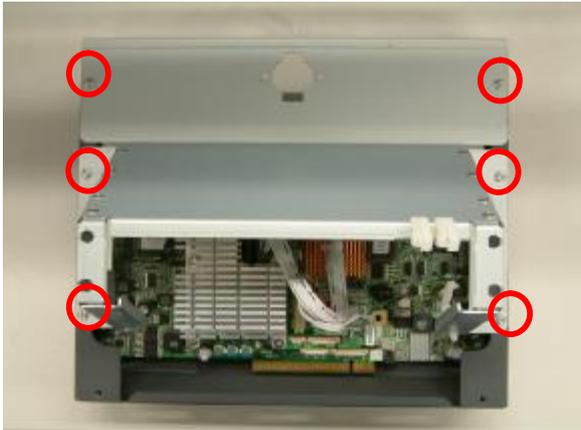
b. Disconnect the cables (5). IDE, LVDS, Inverter cable, touch cable, VFD cable



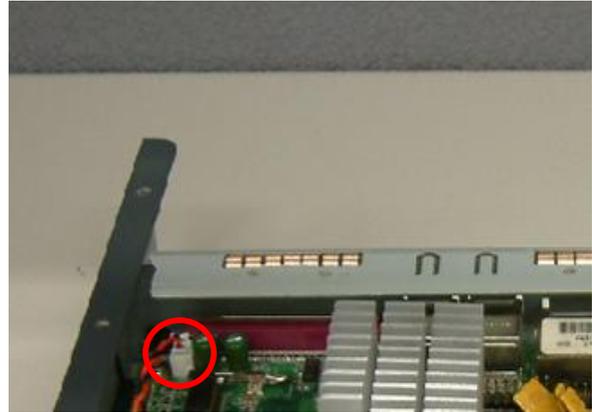
c. Remove the screw (4), 2 on each side, from the base



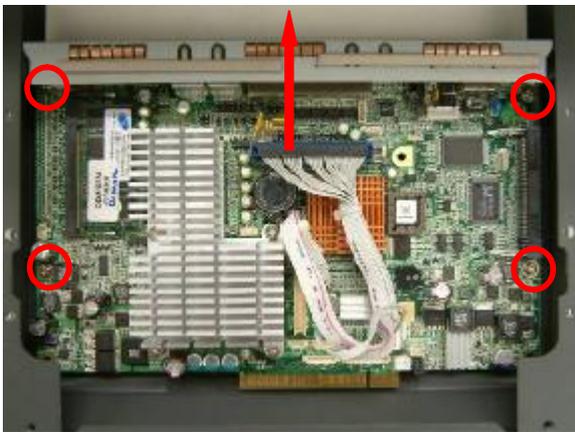
d. Lift the stand cover up to separate it from the stand base



e. Remove the screws (6) to release the metal cover from the stand base



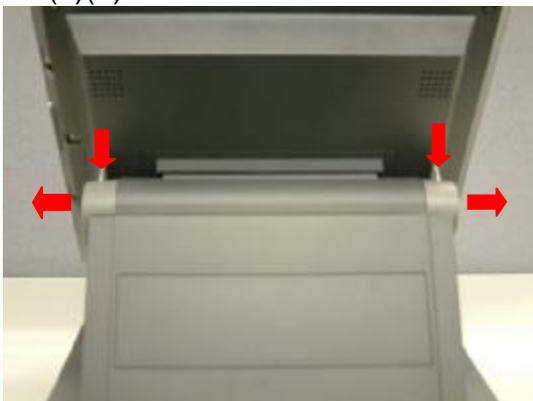
f. Disconnect the power button cable



g. Remove the screws(4), and slide the mainboard in the direction as shown by the arrow.

5.4. Replacing Inverter Board & Touch Screen Board

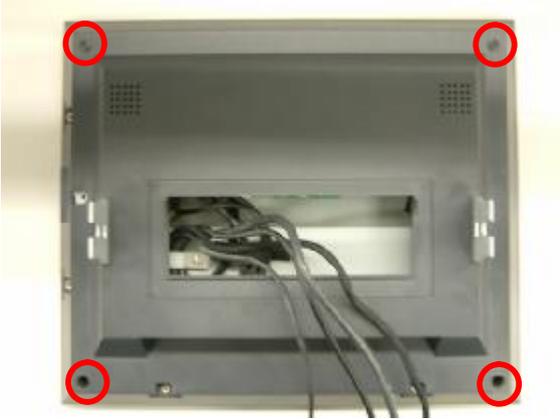
To replace the inverter board and touch screen board, please follow the steps in chapter 5.1(a), 5.2(a)(b)



a. Press and pull to remove the hinge covers(2)



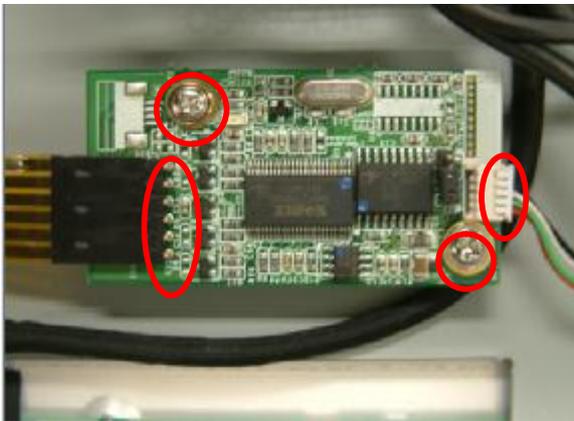
b. Remove the screws(6), 3 from each side to separate the display from the stand



c. Remove the screws(4) and separate the back cover from the display head.



d. Remove the screws (2) and disconnect the cables (3).



e. Remove the screws (2) and disconnect the cables(2).

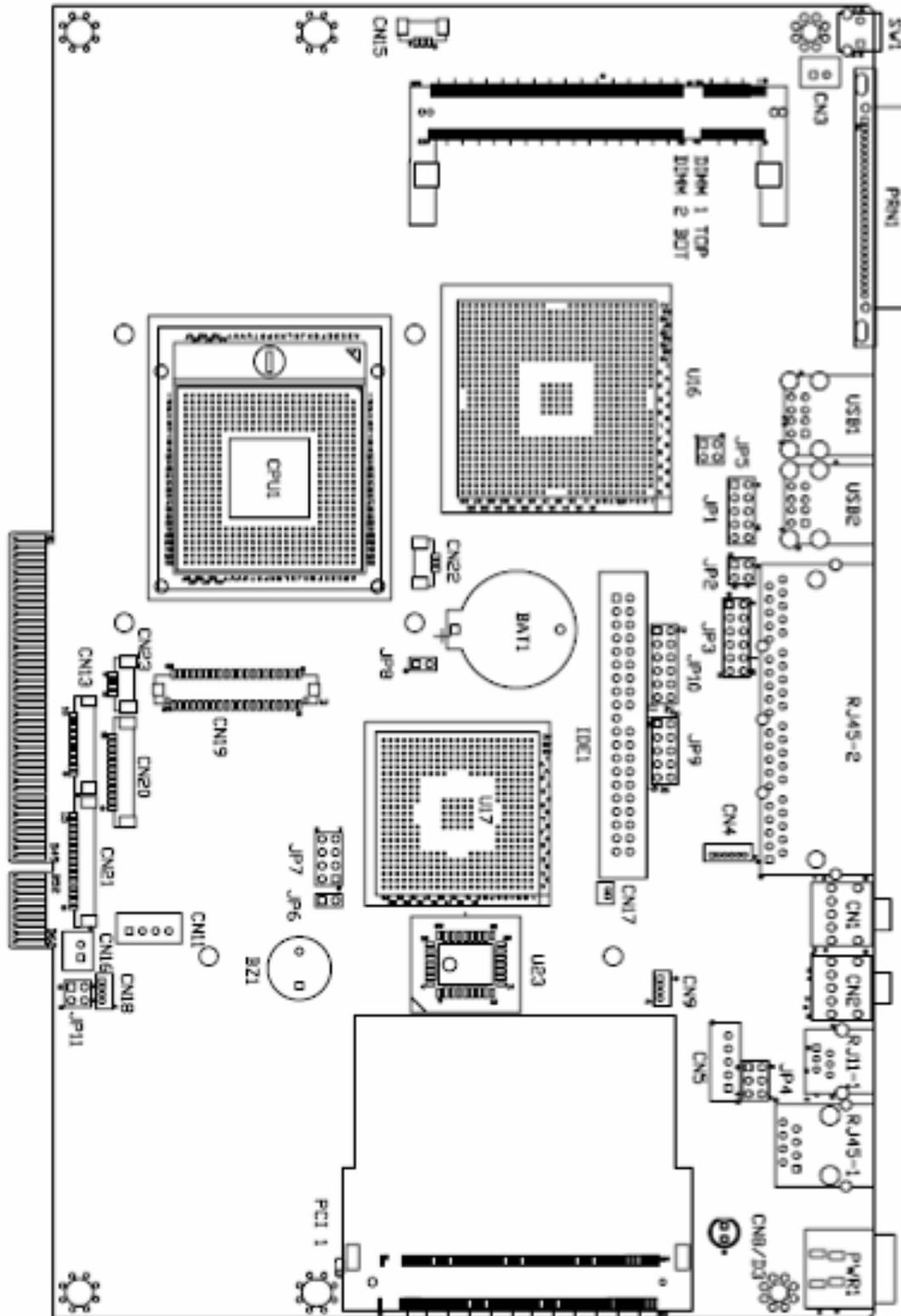
6. Specification

Motherboard	B78	
CPU Support	Intel Celeron M ULV 600MHz/ 1GHz	
Chipset	Intel 852GM + ICH4	
System Memory	256MB DDR RAM, up to 2GB	
Graphic Memory	Shared system memory up to 64MB	
LCD Panel		
LCD Size	12.1" TFT	15" TFT
Brightness	up to 400 cd / m ²	250 - 350 cd / m ²
Maximal Resolution	800 x 600 / 1024 x 768	1024 x 768
Touch Screen Type	Resistive	
Tilt Angle	-25° ~ 65°	
Storage		
HDD	2.5" 40GB or higher	
Flash Memory	Compact Flash (Type I&II)	
Expansion		
Mini-PCI Socket	1	
Base Rear I / O		
USB	4 (V2.0)	
Serial/COM	4 x COM ports RJ-45 connectors (COM1 standard RS-232; COM2 RS232/422/485 selectable by jumper; COM3 & COM4 pin 9 with 5V or 12V power by jumper)	
Parallel	1 x D-sub 25-pin connector	
LAN (10 / 100)	1 x RJ45	
2 nd VGA Output	1	
Cash Drawer	1 x RJ-11 (12V or 24V) by jumper	
Line-in	1	
Line-out	1	
Control/Indicator		
Power Button	1	
Indicator LED	1	
Power		
Power Adapter	90W (DC 19V)	
Dimension (W x D x H)	385 X 265 X 384mm	308 X 265 X 356mm

Peripherals	
Customer Display	Pole mounted type (VFD/ LCD type)
Magnetic Card Reader	3 Tracks (RS-232 (COM6) / PS2 interface)
Environment	
Operating Temperature	5°C ~ 35°C (41°F ~ 95°F)
Storage Temperature	-20°C ~ 55°C (-4°F ~ 140°F)
Operating Humidity	20% - 80% RH non condensing
Storage Humidity	20% - 85% RH non condensing
OS Support	Windows XP, WEPOS, XP Embedded, XP professional for Embedded, WIN 2000/NT 4.0

7. Jumper Settings

B78 Motherboard



7.1. Connectors

Connector	Function
CN1	Audio Line Out
CN2	Audio Line In
CN13	COM5 for Touch
CN15	CPU FAN Connector
CN16	Hardware Reset
CN18	USB2
CN19	LCD Interface Connector
CN20	Inverter Connector
CN21	Card Reader Connector

Connector	Function
IDE1	Primary IDE Connector
PRN1	Parallel Port
PWR1	+19V Power Adapter
RJ11_1	Cash Drawer Connector
RJ45_1	LAN (On Board)
RJ45_2	COM1, COM2, COM3, COM4
USB1	USB3, USB4
USB2	USB5, USB6

7.2. Jumper Settings

7.2.1. CMOS Operation Mode

Function	JP8
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 JP8 jumper setting from N/C to 1-2.
- 4) Wait 1 minute.
- 5) Change the JP8 jumper setting back to N/C.
- 6) Close the cabinet.
- 7) Apply AC power and continue.

7.2.2. Power Mode Setting

Function	JP6
ATX Power	⊙N/C
AT Power	1-2

7.2.3. Cash Drawer Power Setting

Voltage	JP4
+12V	⊙1-2
+24V	3-4
+19V	5-6

7.2.4. COM3 & COM 4 Power Setting

Function	JP3
COM3 PIN10_RI	⊙1-2
COM3 PIN10_+5V	3-4
COM3 PIN10_+12V	5-6
COM4 PIN10_RI	⊙7-8
COM4 PIN10_+5V	9-10
COM4 PIN10_+12V	11-12

7.2.5. Card Reader Setting

Function	⊙Docking	On Board
JP11 (1-2)	N/C	1-2
JP11 (3-4)	N/C	3-4

7.2.6. LCD ID Setting

Panel Number	Resolution	LVDS		JP7			
		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

7.2.7. COM2 RS232 / 485 / 422 Setting

Function	⊙RS232	RS485	RS422
JP9 (1-2)	V		
JP9 (3-4)	V		
JP9 (4-6)		V	
JP9 (5-7)	V		
JP9 (7-8)		V	
JP9 (9-10)			V
JP10 (1-2)	V		
JP10 (3-4)		V	
JP10 (5-6)			V
JP10 (7-8)			V
JP10 (9-10)			V
JP10 (11-12)			V

Note:

OPEN

SHORT



7.3. Connectors Pin Definition

CN4: Speaker & MIC Connector

Pin 1	AMP_ORL	Pin 2	GND
Pin 3	GND	Pin 4	AMP_ORR
Pin 5	GND	Pin 6	MIC1

CN9: CD-IN Connector

Pin 1	CDIN_L	Pin 2	CDIN_REF
Pin 3	CDIN_R	Pin 4	CDIN_REF

CN11: Power Connector For 3.5" HDD

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

CN13: COM5

Pin 1	DCD#
Pin 3	TX#
Pin 5	GND
Pin 7	RTS#
Pin 9	RI

Pin 2	RX#
Pin 4	DTR#
Pin 6	DSR#
Pin 8	CTS#
Pin 10	+5V

CN15: CPU FAN Connector

Pin 1	+5V
Pin 3	GND

Pin 2	Feedback
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CN18: USB 2

Pin 1	+5V_USB1
Pin 3	USB20_R_P1+

Pin 2	USB20_R_P1
Pin 4	GND

CN19: 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 37	+5V_LCDVDD
Pin 39	+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
Pin 38	+3.3V_LCDVDD
Pin 40	+3.3V_LCDVDD

CN20: Inverter Connector

Pin 1	+12V_INV
Pin 3	+12V_INV
Pin 5	Back-Light Enable
Pin 7	N/C
Pin 9	GND
Pin 11	GND

Pin 2	+12V_INV
Pin 4	+12V_INV
Pin 6	N/C
Pin 8	Back-Light Enable
Pin 10	GND
Pin 12	GND

CN21: POS Card Reader Connector

Pin 1	+5V
Pin 3	KDATA_SIO_TO_MSR
Pin 5	KDATA_MSR_TO_GFINGER
Pin 7	RS232_6_RX#
Pin 9	RS232_6_CTS#
Pin 11	KB_EN
Pin 13	USB20_MSR_P0+
Pin 15	GND

Pin 2	+5V
Pin 4	KDATA_SIO_TO_MSR
Pin 6	KCLK_MSR_TO_GHINGER
Pin 8	RS232_6_TX#
Pin 10	RS232_6_RTS#
Pin 12	GND
Pin 14	USB20_MSR_P0-

CN22: System FAN Connector

Pin 1	+5V
Pin 3	GND

Pin 2	Feedback
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CN23: IrDA Connector

Pin 1	+5V
Pin 3	IRDA_TX

Pin 2	IRDA_RX
Pin 4	GND

RJ45_2: COM1(Pin1~10), COM2 RJ232 (Pin11~20)

Pin 1	N/C
Pin 3	RS232_1_DSR#
Pin 5	RS232_1_RTS#
Pin 7	RS232_1_CTS#
Pin 9	GND
Pin 11	N/C
Pin 13	RS232_2_DSR#
Pin 15	RS232_2_RTS#
Pin 17	RS232_2_CTS#
Pin 19	GND

Pin 2	RS232_1_DCD#
Pin 4	RS232_1_RX#
Pin 6	RS232_1_TX#
Pin 8	RS232_1_DTR#
Pin 10	RS232_1_RI
Pin 12	RS232_2_DCD#
Pin 14	RS232_2_RX#
Pin 16	RS232_2_TX#
Pin 18	RS232_2_DTR#
Pin 20	RS232_2_RI

RJ45_2: COM2 RS485 (Pin11~20)

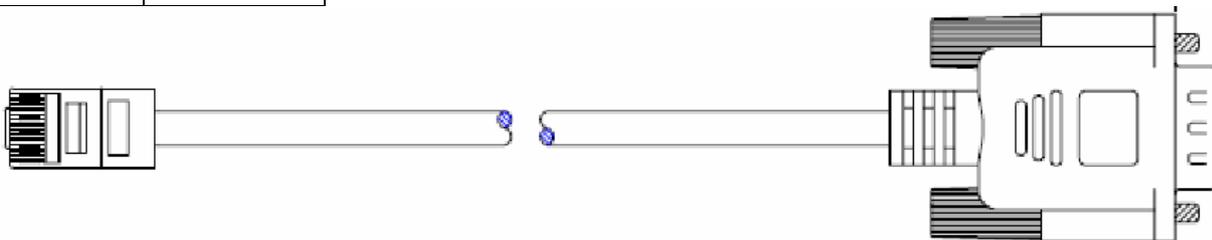
Pin 11	N/C	Pin 12	RS485_TXRX-
Pin 13	N/C	Pin 14	RS485_TXRX+
Pin 15	N/C	Pin 16	N/C
Pin 17	N/C	Pin 18	N/C
Pin 19	GND	Pin 20	N/C

RJ45_2: COM2 RS422 (Pin11~20)

Pin 11	N/C	Pin 12	RS422_TX-
Pin 13	N/C	Pin 14	RS422_TX+
Pin 15	N/C	Pin 16	RS422_RX+
Pin 17	N/C	Pin 18	RS422_RX-
Pin 19	GND	Pin 20	N/C

RJ45 to DB9 Cable for COM Ports

RJ45	DB9
Pin 1	---
Pin 2	Pin 1
Pin 3	Pin 6
Pin 4	Pin 2
Pin 5	Pin 7
Pin 6	Pin 3
Pin 7	Pin 8
Pin 8	Pin 4
Pin 9	Pin 5
Pin 10	Pin 9



RJ45_2: COM3(Pin21~30), COM4(Pin31~40)

Pin 21	N/C
Pin 23	RS232_3_DSR#
Pin 25	RS232_3_RTS#
Pin 27	RS232_3_CTS#
Pin 29	GND
Pin 31	N/C
Pin 33	RS232_4_DSR#
Pin 35	RS232_4_RTS#
Pin 37	RS232_4_CTS#
Pin 39	GND

Pin 22	RS232_3_DCD#
Pin 24	RS232_3_RX#
Pin 26	RS232_3_TX#
Pin 28	RS232_3_DTR#
Pin 30	RS232_3_RI
Pin 32	RS232_4_DCD#
Pin 34	RS232_4_RX#
Pin 36	RS232_4_TX#
Pin 38	RS232_4_DTR#
Pin 40	RS232_4_RI

JP1: VGA Port

Pin 1	GND
Pin 3	GND
Pin 5	GND
Pin 7	GND
Pin 9	GND

Pin 2	CRT_R
Pin 4	CRT_G
Pin 6	CRT_B
Pin 8	CRT_HSYNC
Pin 10	CRT_VSYNC

JP2: VGA Power

Pin 1	+12
Pin 3	+12

Pin 2	GND
Pin 4	GND

8. BIOS Settings

8.1. 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.

8.2. 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.

8.3. When a Problem Occurs

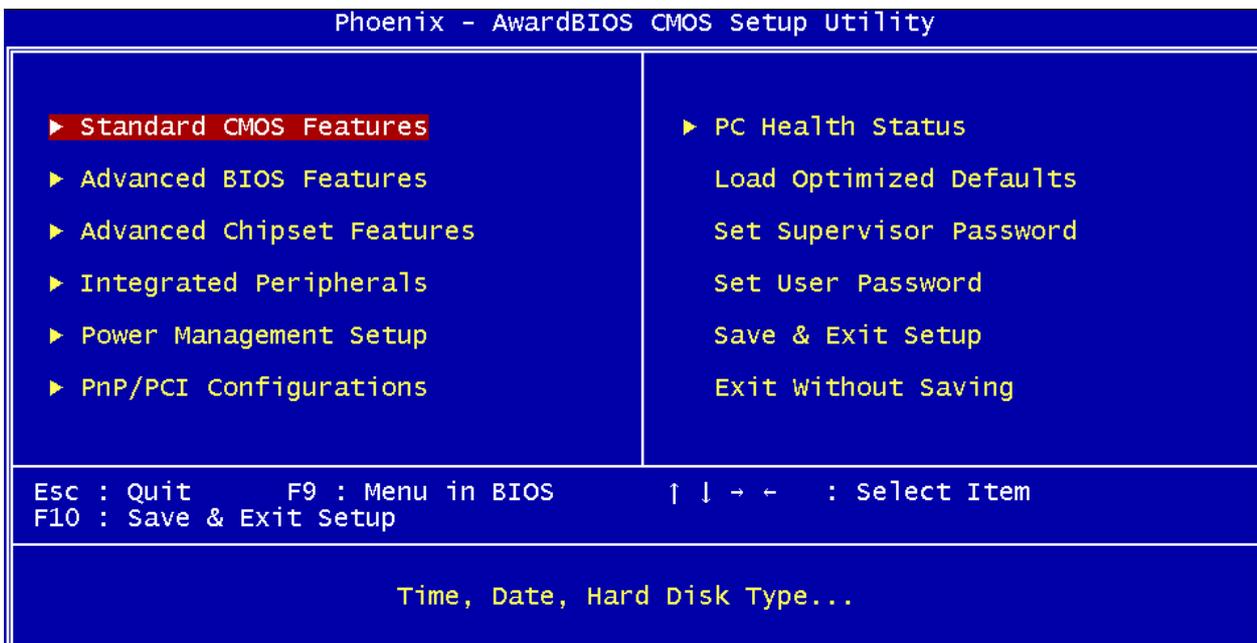
If, after making and saving system changes with the Setup utility, you find that this product no longer boots, start the BIOS setup and execute the following.

Load Optimized Defaults

8.4. 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 B78 BIOS version B78FV10.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.