POS 46X
Series Manual

Point-of-Sale
Hardware System

P/N: 48201122
2006 July V2.1

Manual Version 2.1

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TRADEMARK

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Safety

IMPORTANT SAFETY INSTRUCTIONS

1. To disconnect the machine from the electrial 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.

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.

CE MARK

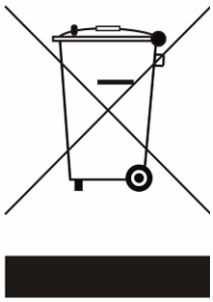
CE This device complies with the requirements of the EEC directive 89/336/EEC with regard to “Electromagnetic compatibility” and 73/23/EEC “Low Voltage Directive”.

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.

Table of Contents

1. Item Checklist

Take the system out of 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

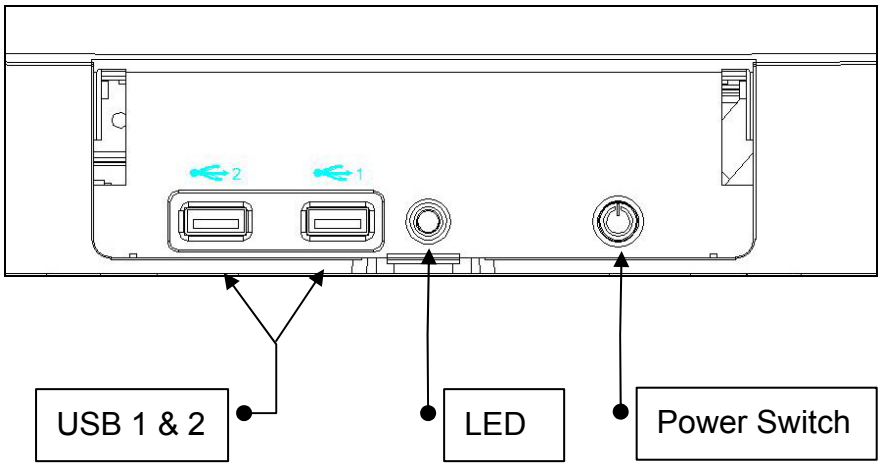
a. Driver CD

b. Manual

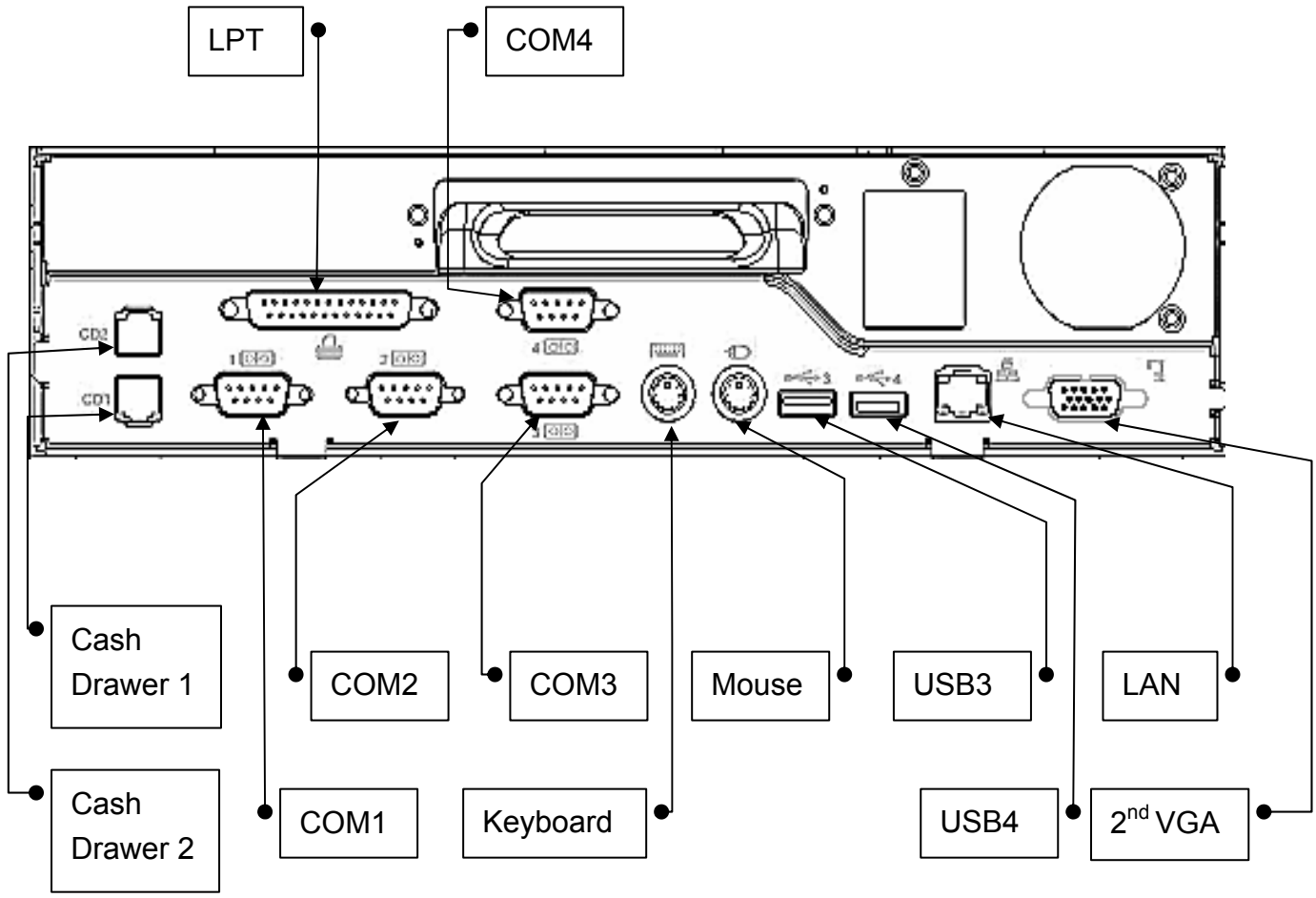
c. Power Cable

2. System View

2.1 Front View



2.2 Rear View



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

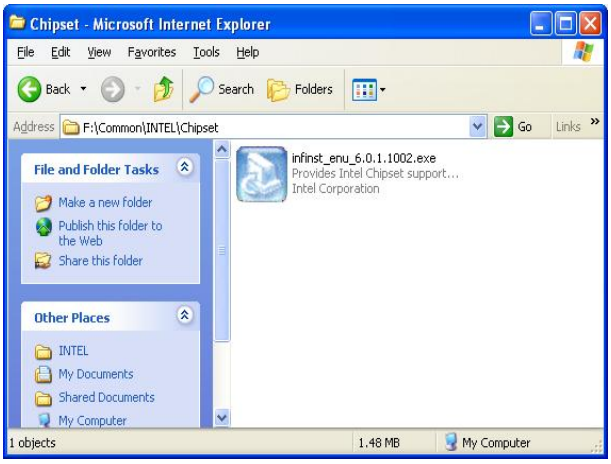
3. Drivers Installation

3.1 Driver list

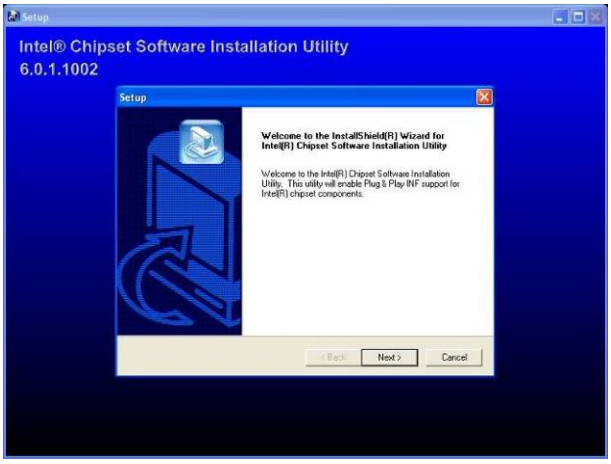
Folder/File	File Description
<CD>:\B81.htm	B81 Driver List
<CD>:\Common\INTEL\Chipset	Chipset Driver
<CD>:\Common\INTEL\VGA\i85x	VGA Driver
<CD>:\Common\Lan_driver\R8139_810x	10/100Mb LAN Driver
<CD>:\Common\INTEL\USB20	USB 2.0 Driver
<CD>:\Common\SmartCard\USB	USB Smart Card Reader Driver
<CD>:\Common\Elo_Touch	ELO Touch Screen Driver
<CD>:\Common\POS_Touch	POSTouch Touch Screen Driver

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

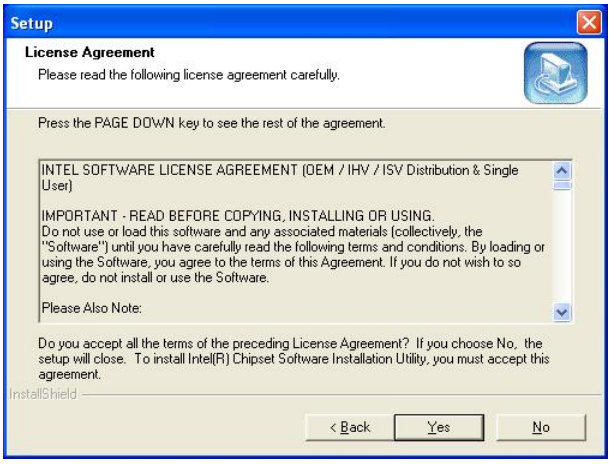
3.2 Chipset Driver Installation



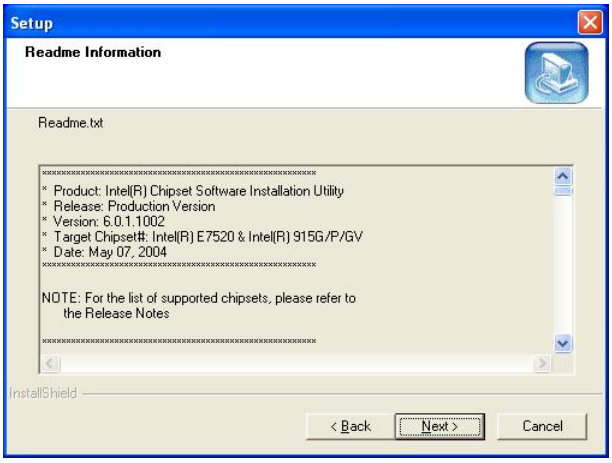
a. Double click "infinst_enu_6.0.1.1002" on the My Computer window.



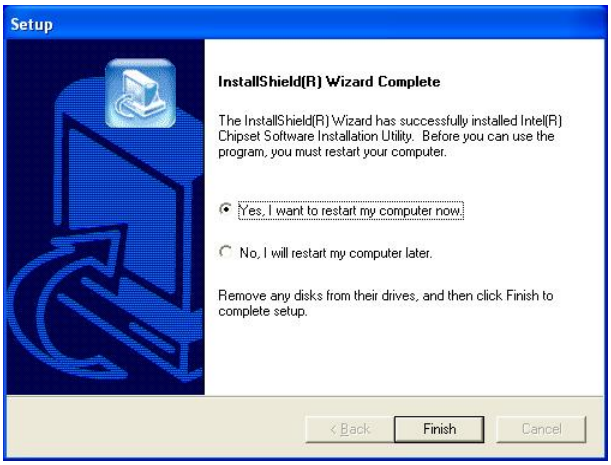
b. Click the "Next" button on the Welcome window.



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

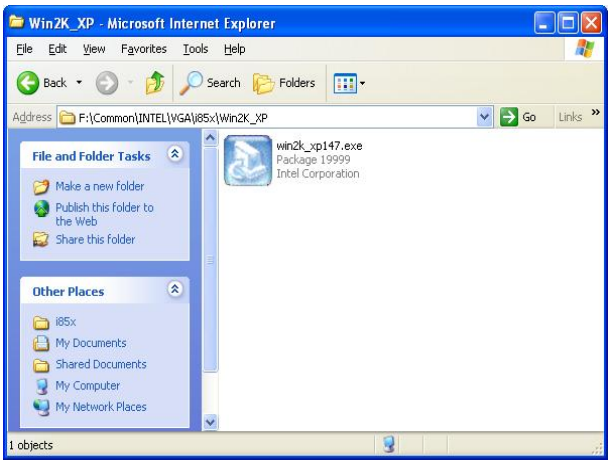


d. Click the ”Next” button on the Readme Information window.

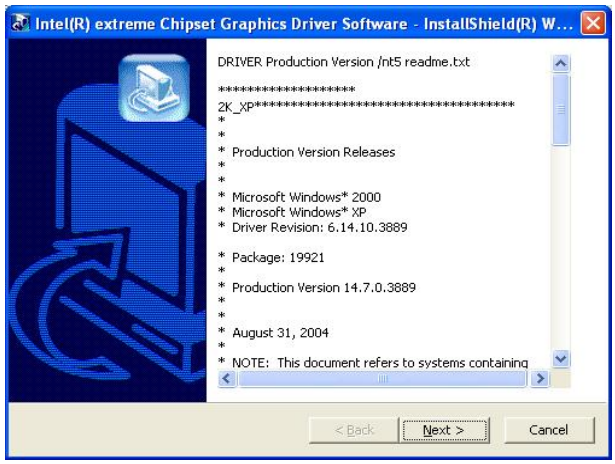


e. Click the “Finish” button and restart your system.

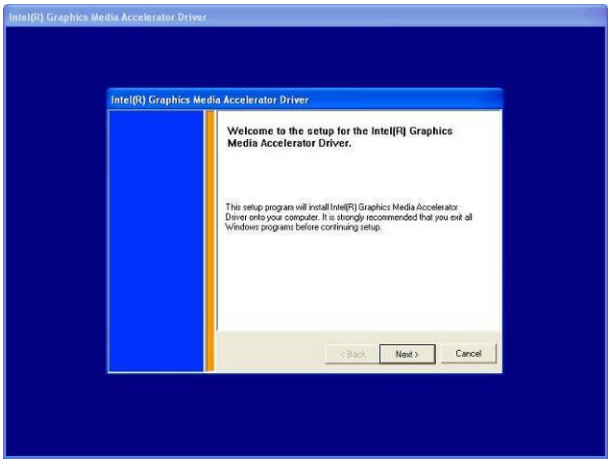
3.3 VGA Driver Installation



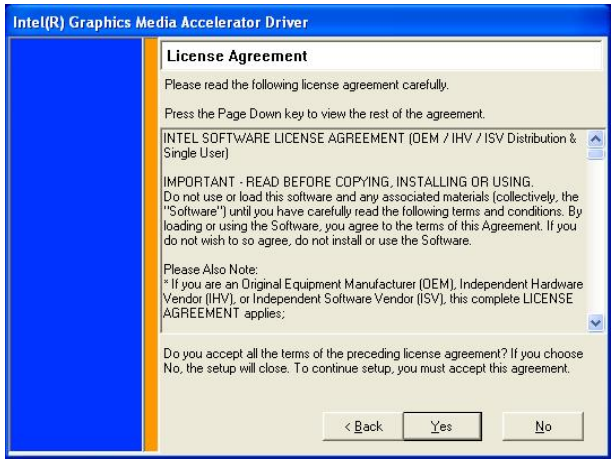
a. Double click "win2k_xp147" on the My Computer window.



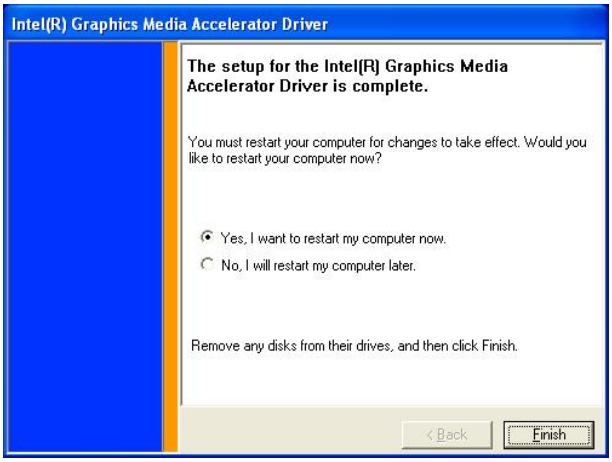
b. Click the "Next" button on the Welcome window.



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

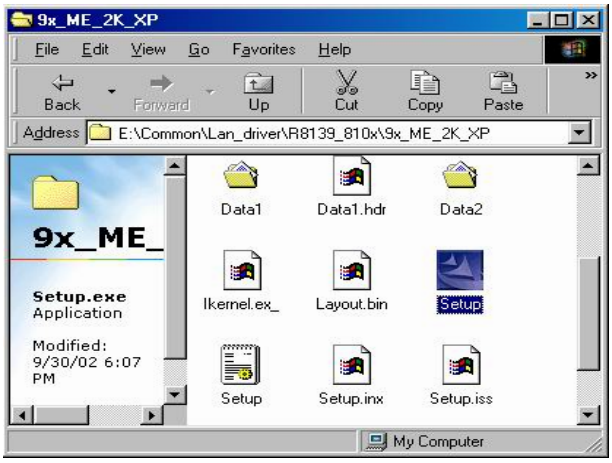


d. Click the ”Yes” button on the License Agreement window.

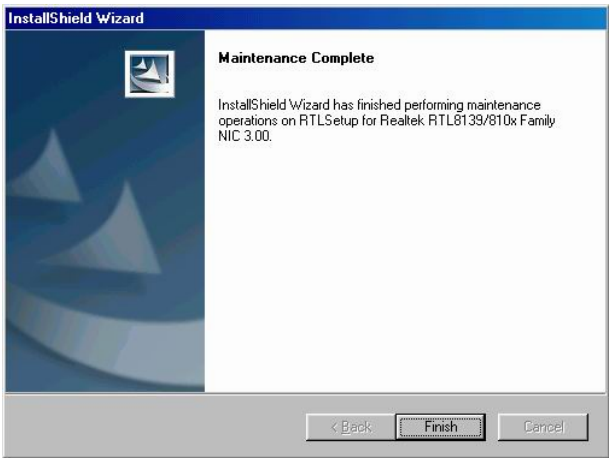


e. Click the ”Finish” button and restart your system.

3.4 LAN Driver Installation



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



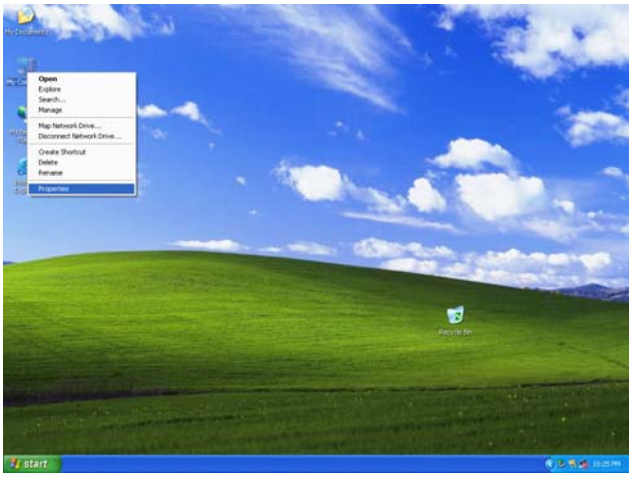
b. Click the "Finish" button on the Maintenance complete window.

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

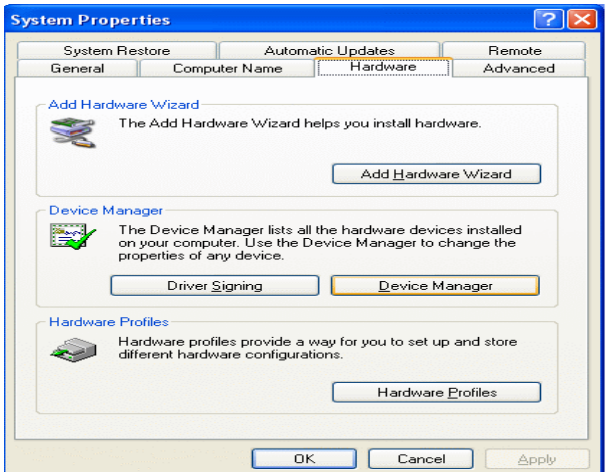
3.5 USB2.0 Driver Installation

OS Requirements

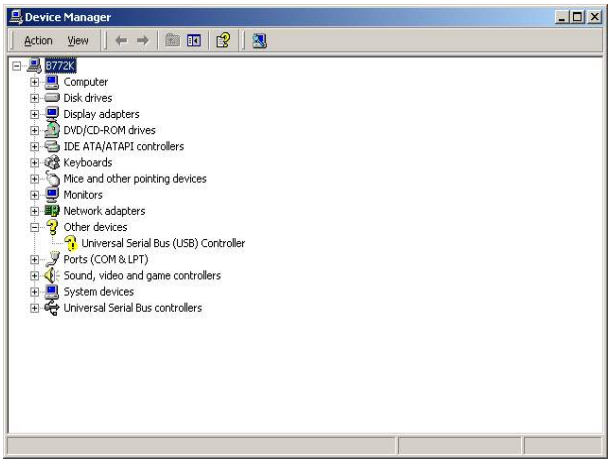
OS	USB 2.0 requirements
Windows XP	USB 2.0 drivers are provided in Service Pack 1 (SP1) for Windows XP, which is available through Windows Update.
Windows 2000	USB 2.0 drivers are available through Windows Update or Service Pack 4.
Windows 98SE/Me	USB 2.0 drivers are available on the Intel developer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

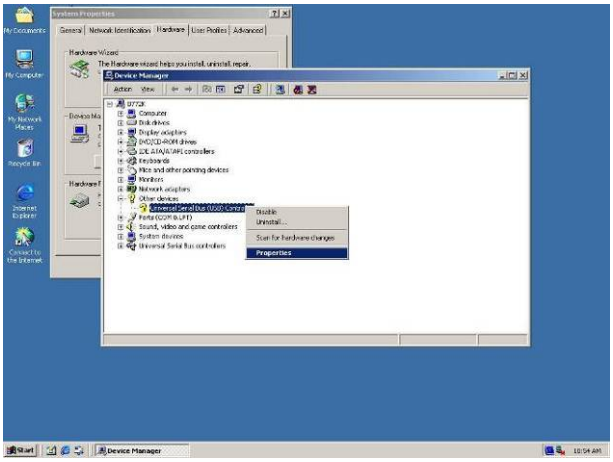


a. Right click My Computer on the windows desktop and select “properties”

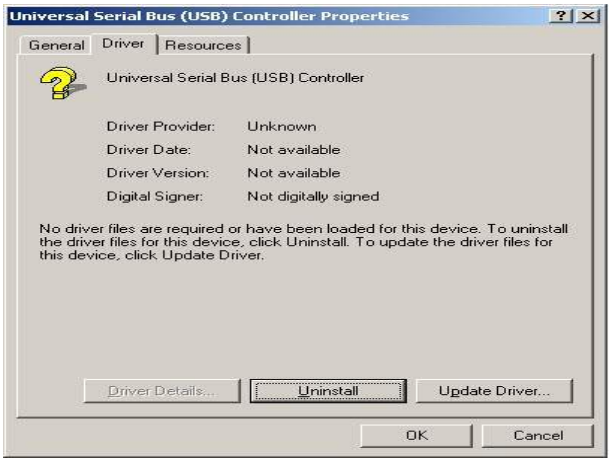


b. Select “Hardware”→”Device Manager” on system properties.





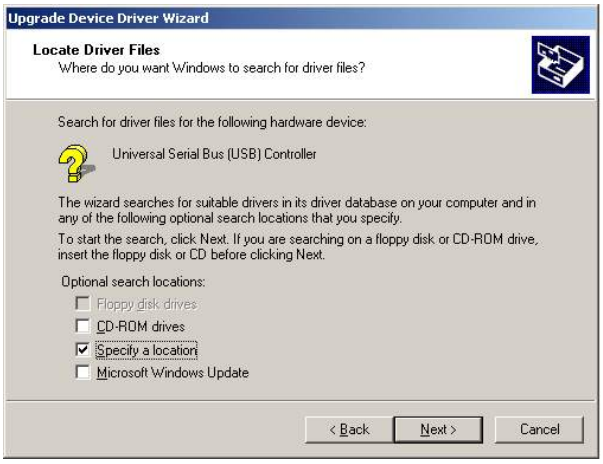
c. Select ”Other Devices” → “Universal Serial Bus (USB) Controller” →”Properties” on Device Manager.



d. Select “Device”→ “Update Driver…”.

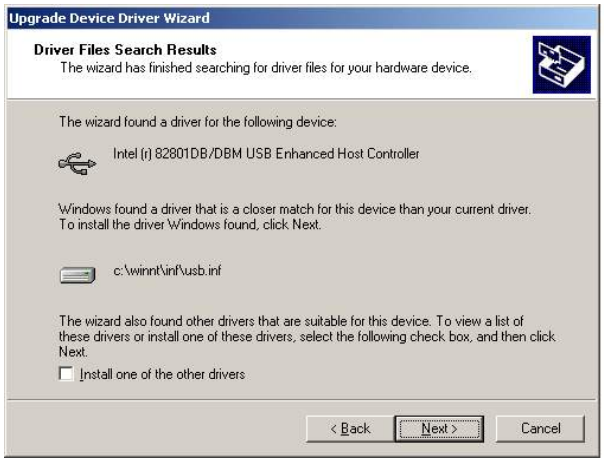
e. Click the ”Next” button on the welcome window.

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



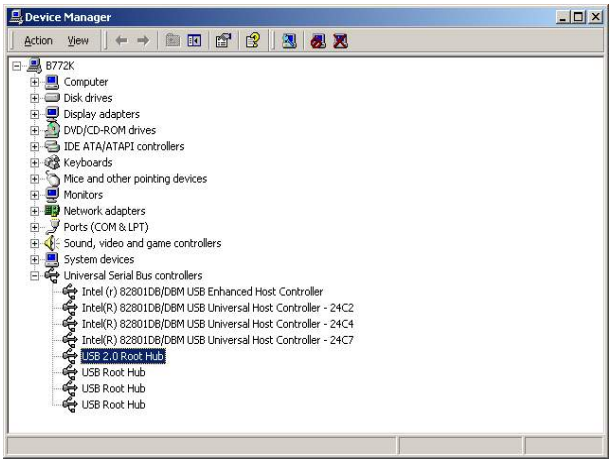
g. Select “Specify a location” and click the “Next” button on the Locate Driver Files window.

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



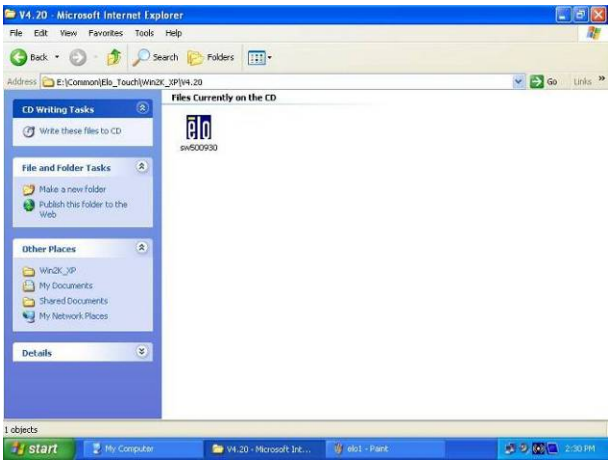
i. Click the “Next” button on Driver Files Search Results window.

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



k. Finished.

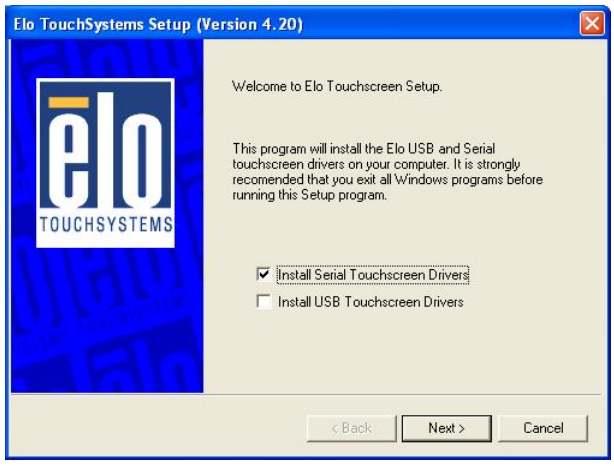
3.6 ELO Touch Screen Driver Installation



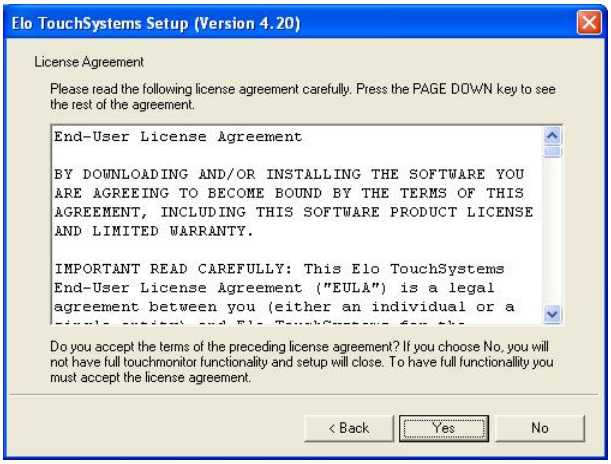
a. Click ”sw500930” on the My Computer window.

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

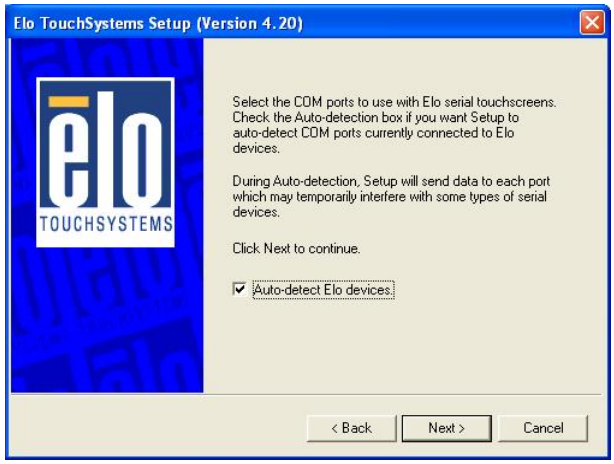
c. Click the ”Unzip” button on the WinZip Self-Extractor window.



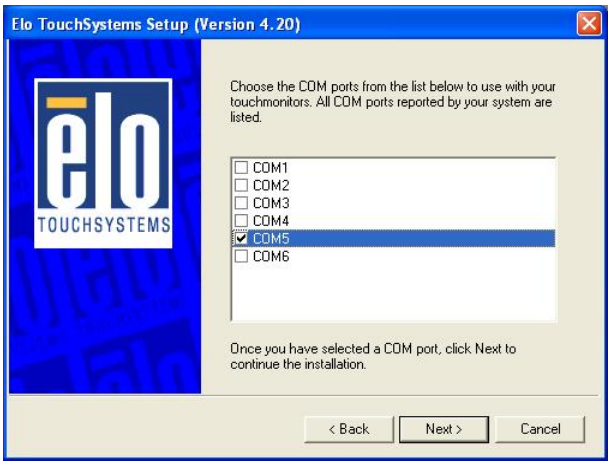
d. Select “Install Serial Touchscreen Drivers” and then click the “Next” button on the Welcome window.



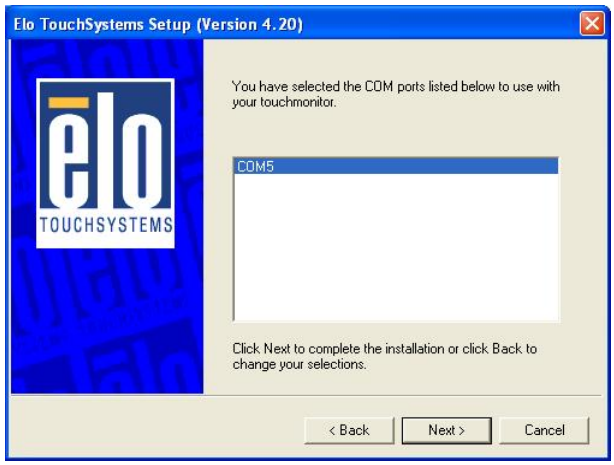
e. Click the “Yes” button on the License Agreement window.



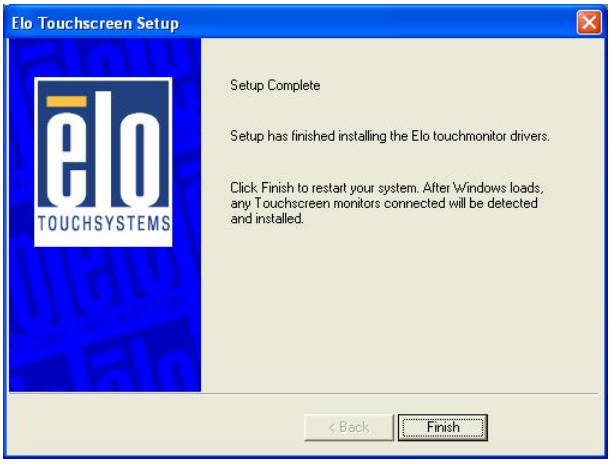
f. Click the “Next” button on the on the “Select the COM ports…” window.



g. Select “COM5” and click the “Next” button on the Choose the COM ports… window.



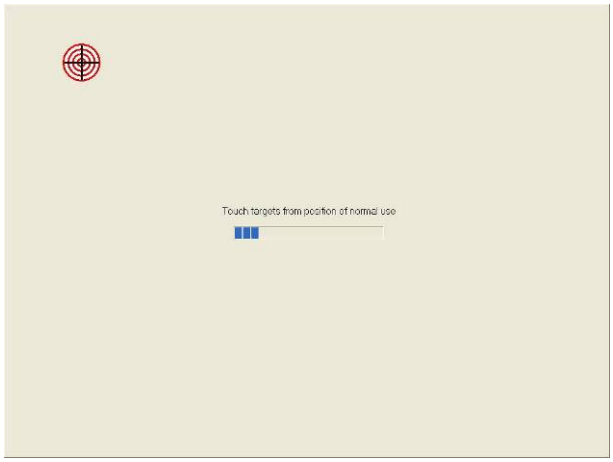
h. Click the “Next” button on the You have selected the COM ports…window.



i. Click the “Finish” button on the Setup Complete window

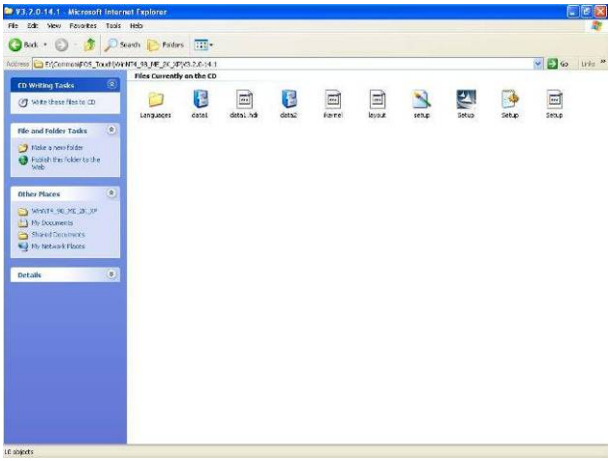
j. Click the “Yes” button and restart your system.

k. After the computer restarted, click “Align” on the Elo Touchscreen Properties window.

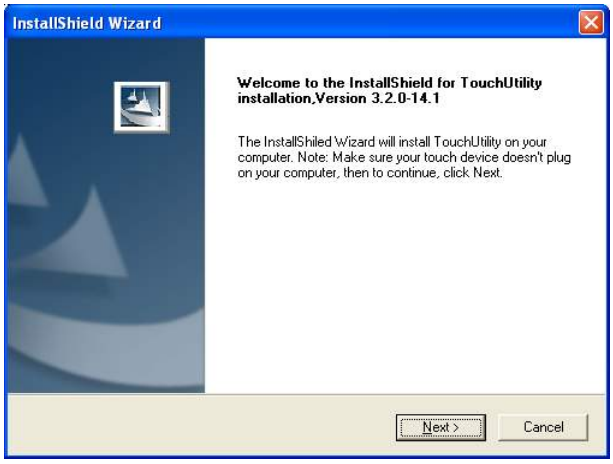


l. Calibrate three red points.

3.7 POSTouch Touch Screen Driver Installation

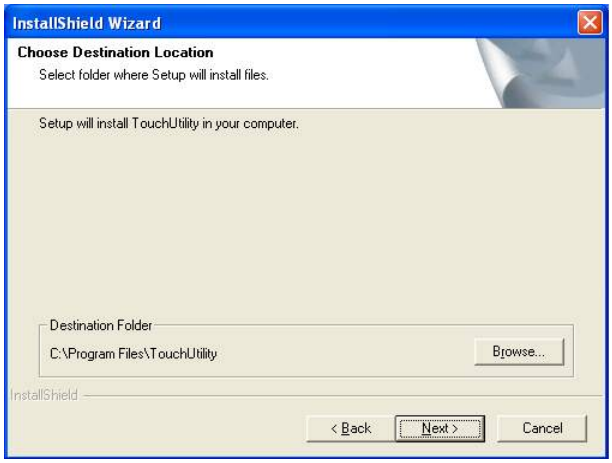


a. Double click ”Setup” on the My Computer window.



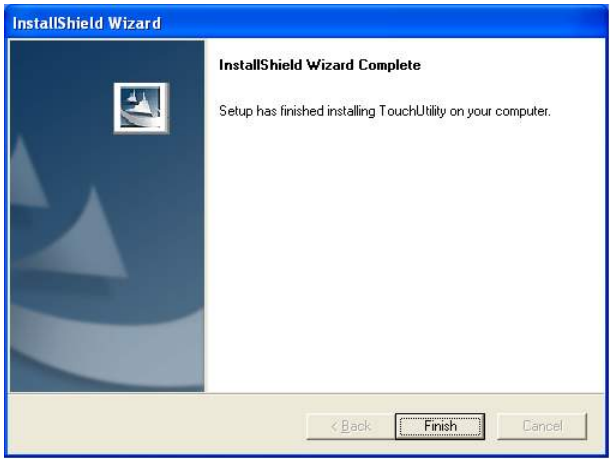
b. Click the “Next“ button on the Welcome window.

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



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

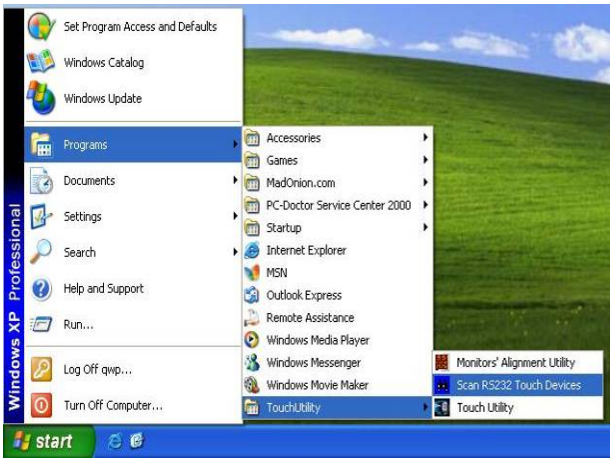
e. Click the “Next” button on the Select Program Folder window.



f. Click the “Finish” button on the InstallShield Wizard Complete window.

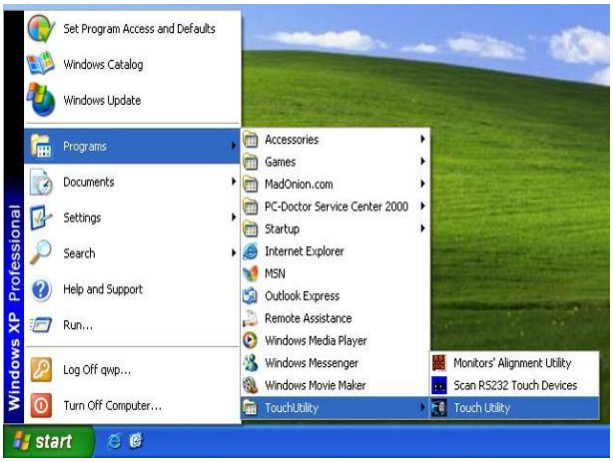
g. Click the “Continue Anyway “ button on the Hardware Installation window

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

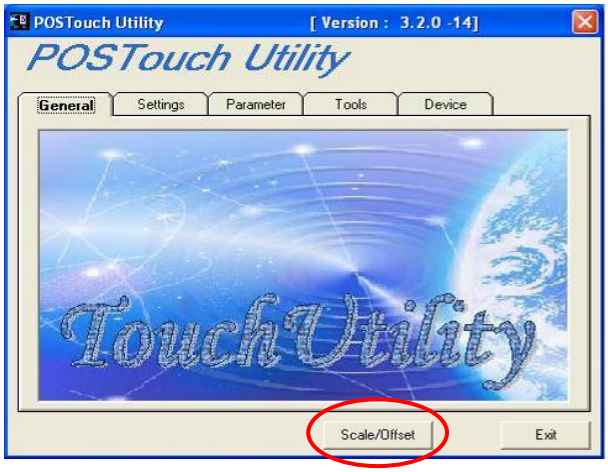


i. After the computer restarted, select “Programs →TouchUtility →Scan RS232 Touch Device”.

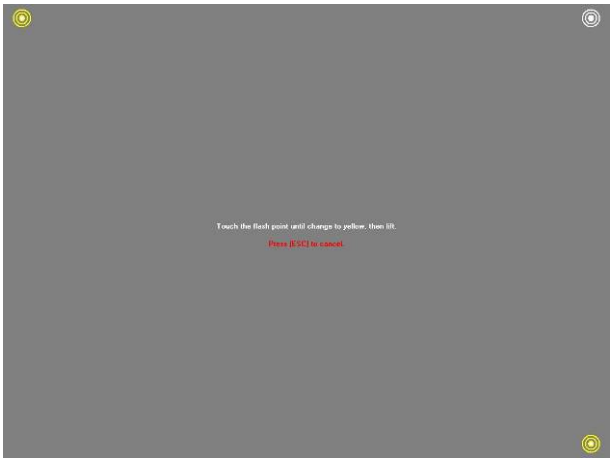
j. Automatically scan serial port for touch.



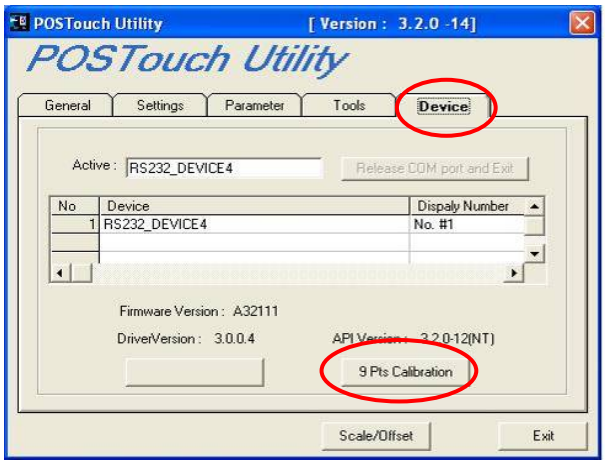
k. Select “Programs →TouchUtility →Touch Utility”.



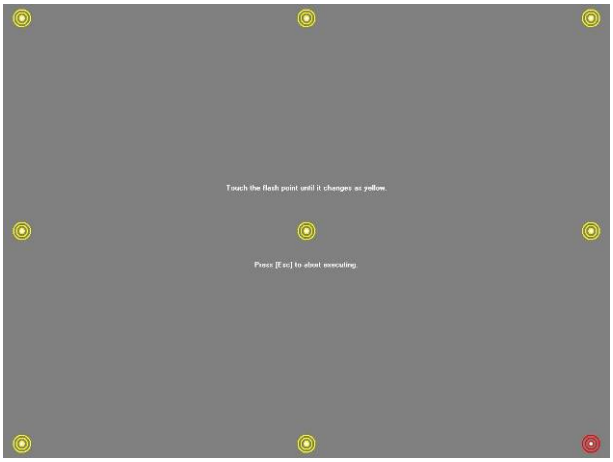
l. Click “Scale / Offset” on the POSTouch Utility window.



m. Calibrate three red flash points.

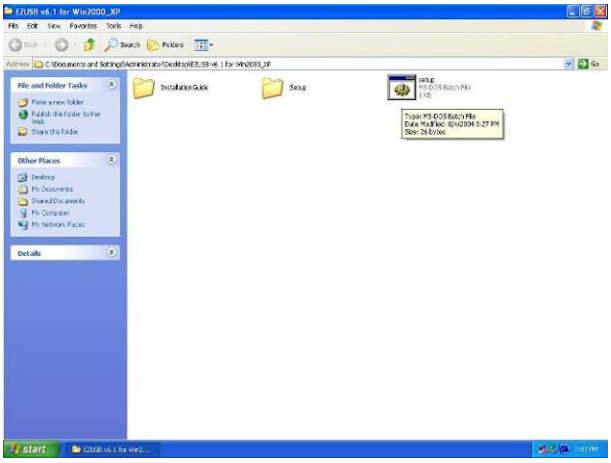


n. Select “Device →9Pts Calibration” on the POSTouch Utility window.



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

3.8 USB Smart Card Reader Driver Installation



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

b. Click the “yes” button on the window.

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

4. Peripherals Installation

4.1 Magnetic (Smart) Card Reader / I-Button Installation

The module unit is tested and can be supplied at your request. This module is removed during transportation and can be connected by the user.

a. Remove the screws (2) of the plastic cover on the right side of the display.

b. Slide the cover out as shown in the picture.

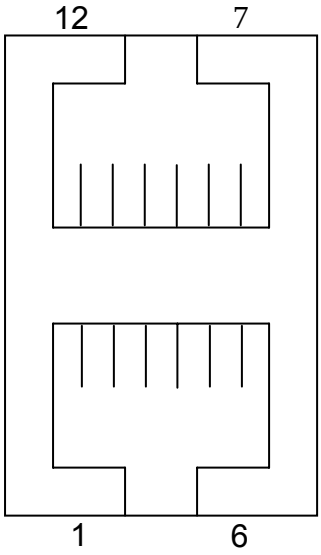
c. Connect the MSR connector on the right side of the system.

d. Slide the MSR into position as shown in the picture, and fasten it to the display housing by tightening 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	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 one I/O addresses to control the Cash Drawer.
The Cash Drawer Control Register and the Cash Drawer Status Register.

Register Location: I/O port 4B8h
Attribute: Read / Write
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 1**
O 4B8 01	Opening
O 4B8 00	Allow to closing

- Set the I/O address 4B8h bit0 =1 for opening the Cash Drawer1 by “DOUT bit0” pin control.
- Set the I/O address 4B8h bit0 = 0 to allow closing Cash Drawer1.

Command	**Cash Drawer 1**
I 4B8	Check status

- The I/O address 4B8h bit4 =1 means the Cash Drawer1 is closed or no Cash Drawer.
- The I/O address 4B8h bit4 =0 means the Cash Drawer1 is open.

4.3 Customer Display Installation

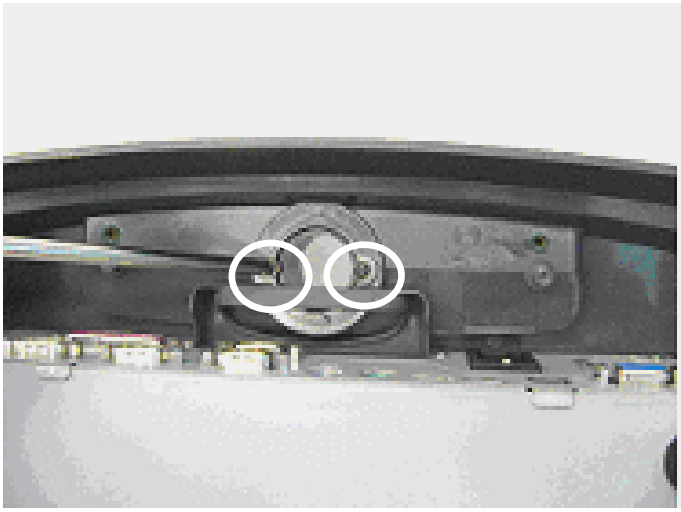
a. Take out the rubber cover.

b. Take out the round plastic cover.

c. Remove the screws (2).

d. Release the VFD cover.

e. Install the stand base.



f. Tighten the screws (2) to fix the stand base.

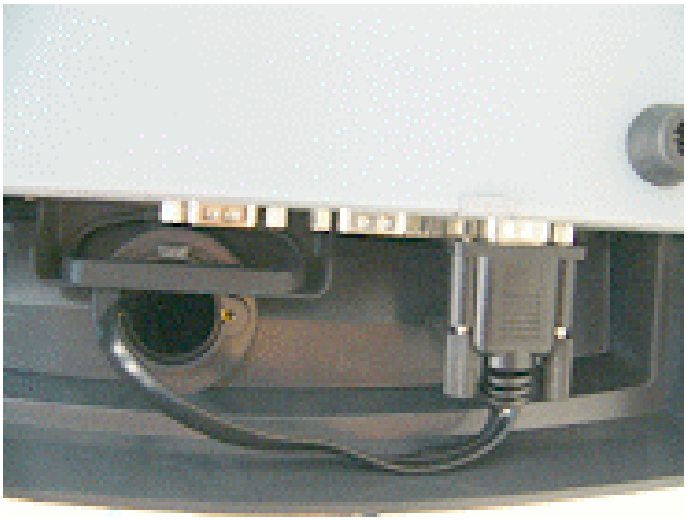
g. Install the VFD cover and tighten it with the screws (2).

h. Install the stand stud.

i. Install the VFD cable.

j. Install the short or the long pole.

k. Assemble the VFD.



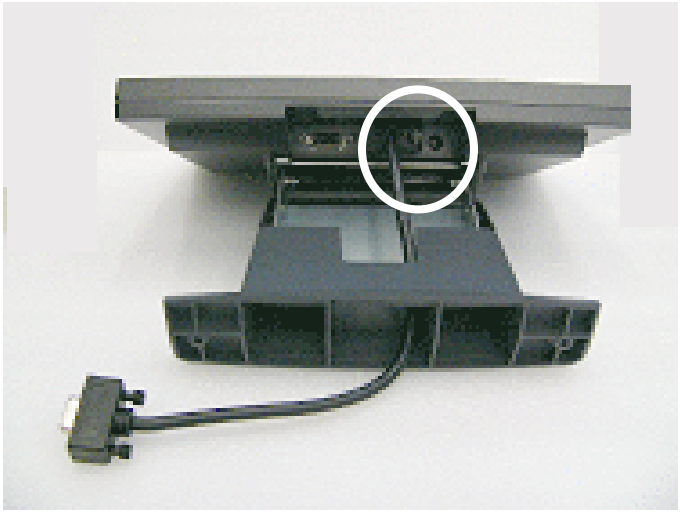
l. Connect VFD cable to the COM port. Don’t forget to setup the COM port power.

m. Finished.

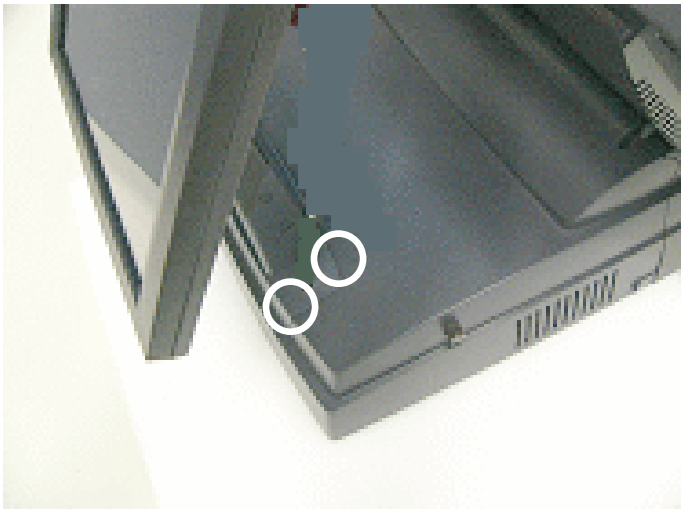
4.4 Second Display Installation

Please ensure that the system power is turned off before connecting the second display. Failure to do so may damage the electronics of the system, and is not covered by the product warranty.

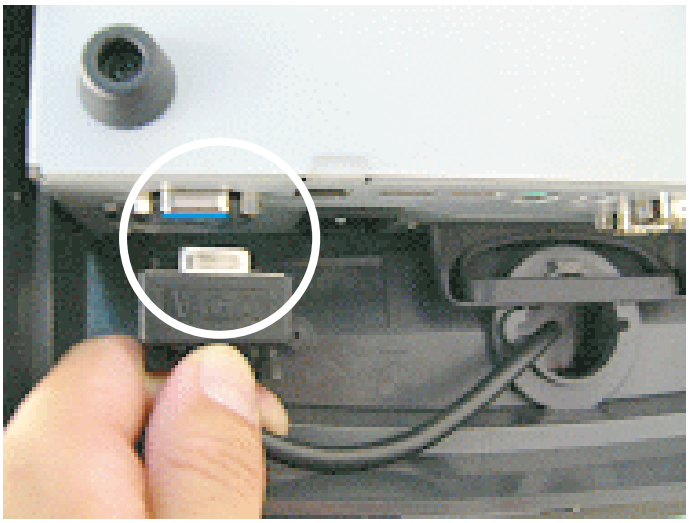
Note: Please set motherboard Jumper 15 to 1-2 (Refer to P.38 Item 12. Second Display Power Setting).



a. Insert the male head of the VGA cable into the VGA port.



b. Mount the second display on the rear of the system and tighten the screws (5) on the supporter.

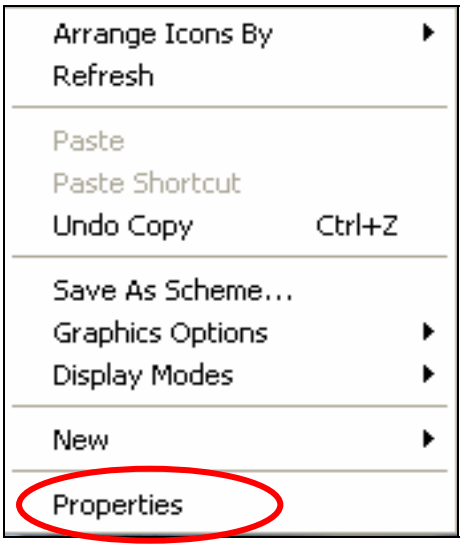


c. Insert the other end of the VGA cable (male) into the VGA port of the system to establish the connection.

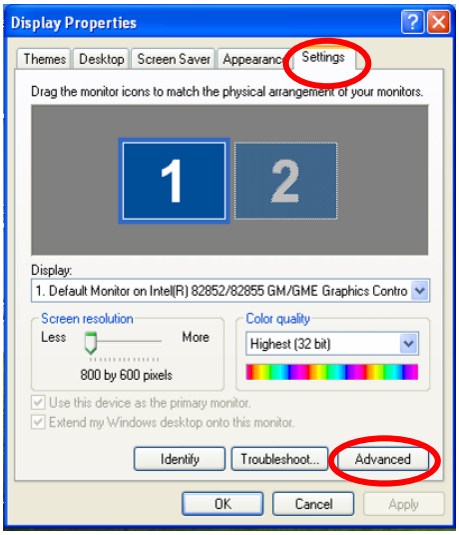
Note: The procedure below is valid only for POS462 with Sanyo Torisan LCD Panel.

After installing the second display with Sanyo Torisan LCD panel and the VGA driver under Windows XP, please set the monitor contents for second display as follows.

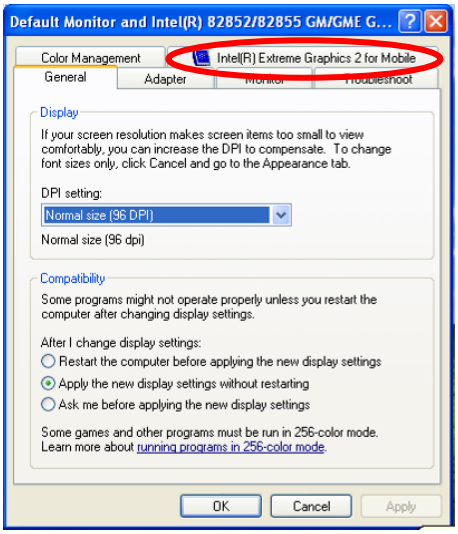
Do not set the monitor contents from the Intel [R] Extreme Graphics 2 for Mobile icon in the taskbar, but follow the instructions below.



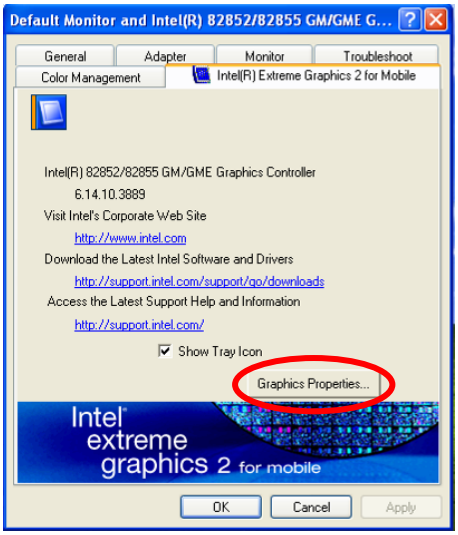
a. Click on the desktop with the right mouse button.
Select “Properties”.



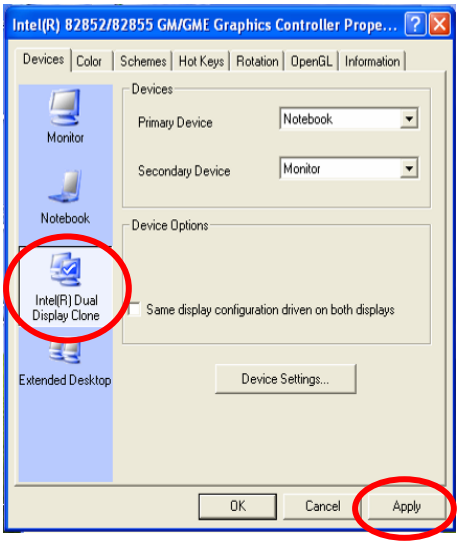
b. Select the “Settings” tab, then click on the “Advanced” button on the Display Properties window.



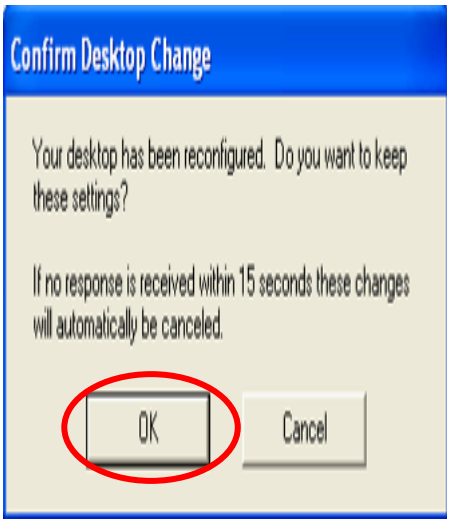
c. Select “Intel [R] Extreme Graphics 2 for Mobile” on the Default Monitor and Intel [R]… window.



d. Select “Graphic Properties” on the Default Monitor and Intel [R]… window.



e. Select “Intel [R] Dual Display Clone” and click “Apply” on the Intel [R] 82852/82855 GM/GME Graphics Controller… window.



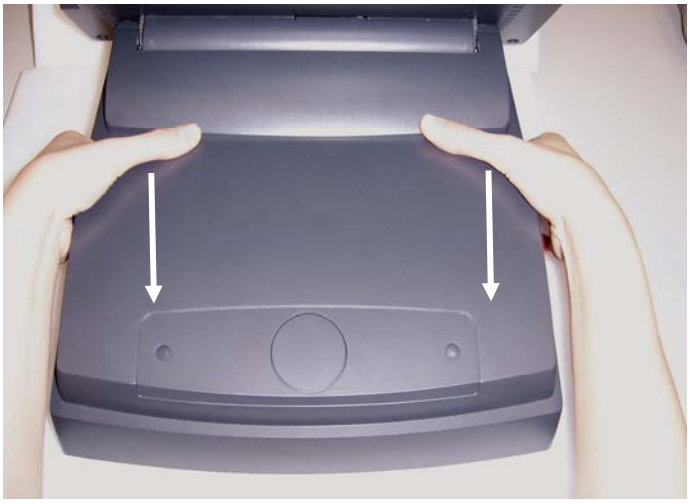
f. Click “OK” on the Confirm Desktop Change window.

5. System Disassembly

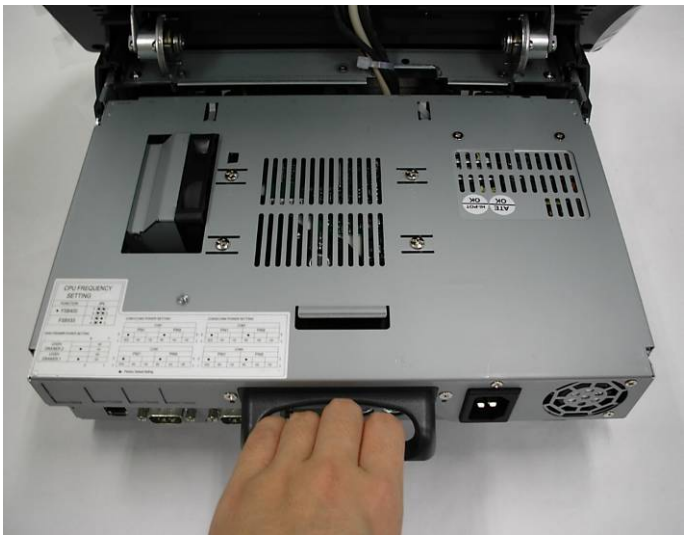
5.1 Open the Chassis Box

The HDD, Power Supply, CPU + Cooler, Memory and Mini PCI SCSI Card can be replaced by opening the chassis box, which is located in the top part of the main modular box.

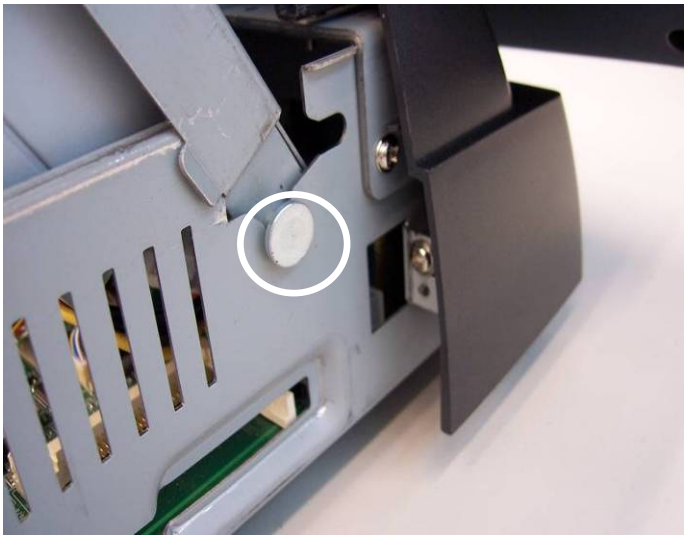
a. Loosen the screws (2).



b. Press the buttons and remove the rear cover towards you.



c. Pull the chassis box cover towards you by the handle, and lift it up.



d. Fix the chassis box cover in the open position as shown in the picture.

e. Replace the HDD and the power supply.

5.2 Replace the HDD

Open the chassis box as described in chapter 5.1.

a. Disconnect the cables (2) as shown in the picture.

b. Remove the screws (4) to remove the HDD.

5.3 Replace the Power Supply

Open the chassis box as described in chapter 5.1.

a. Disconnect the cables (2) as shown in the picture.

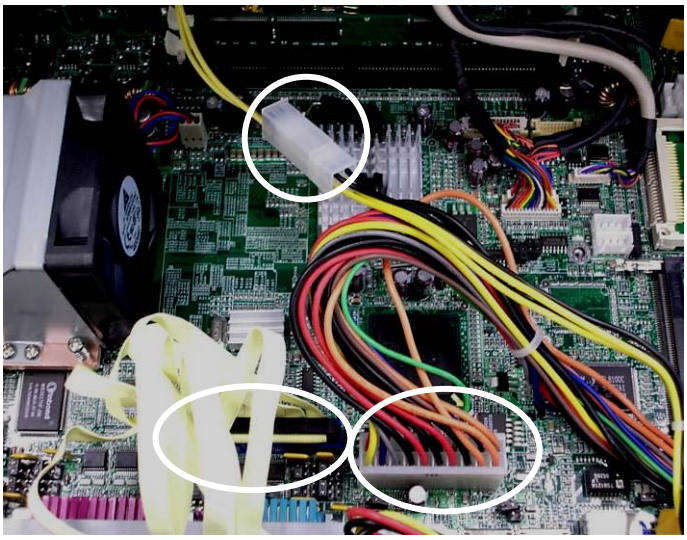
b. Remove the screws (3).

c. Remove the screws (2) to remove the power supply.

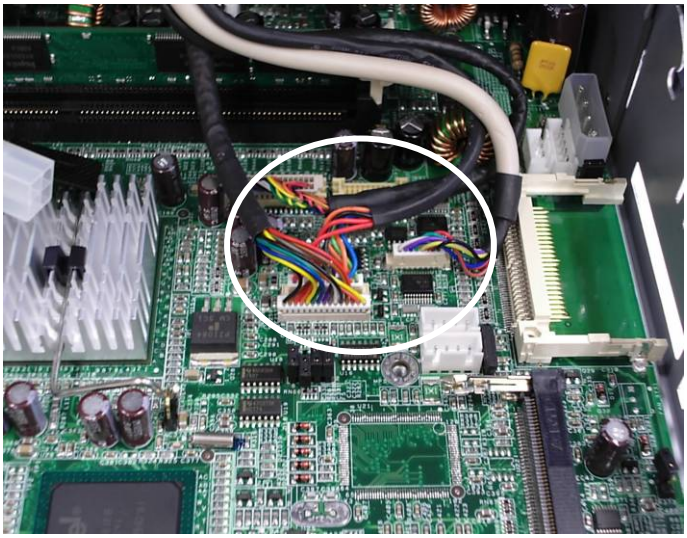
5.4 Replace the Motherboard Tray

Open the chassis box as described in chapter 5.1.

a. Lift the chassis box cover to disengage it from the chassis box.



b. Disconnect the cables (3) as shown in the picture.



c. Disconnect the cables (4) as shown in the picture.

d. Remove the screw (1) on the right side.

e. Remove the screw (1) on the left side.

f. Remove the screw (1) on the motherboard.

g. Pull the motherboard tray towards you to remove the motherboard.

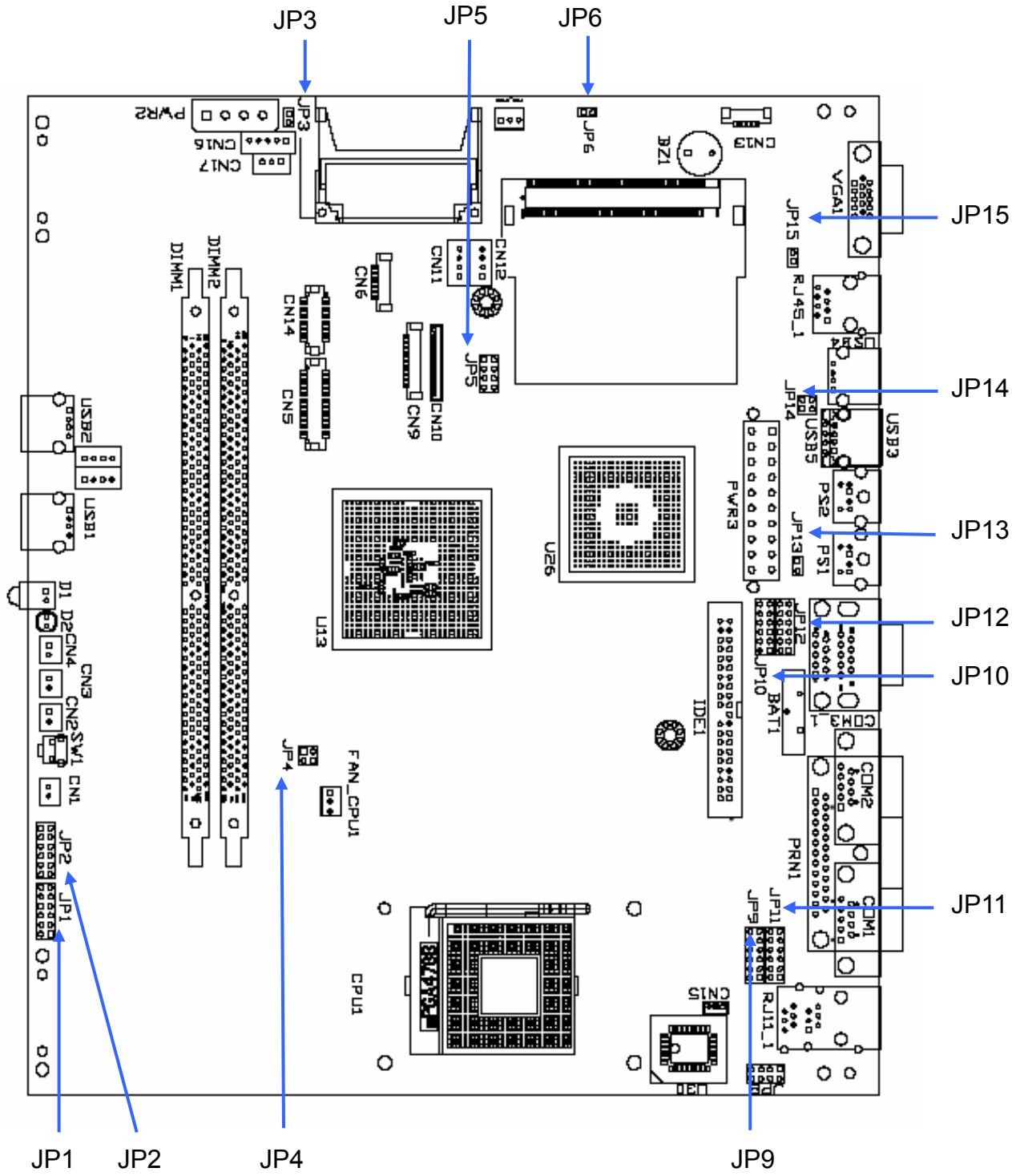
Appendix A: Specification

Main Name	POS 462	POS 465
Mainboard	**B81**	
CPU Supports	P4 2A / 2.6G, Celeron 2.0 / 2.4 / 2.5G, Mobile Celeron 1.2G	
Chipset	Intel 852GM & ICH4 FSB 400Mhz	
System Memory	2 x DDR DIMM sockets supported with memory size up to 2GB	
Graphic Memory	UMA Share Memory up to 64MB	
LCD Touch Panel		
LCD Size	12.1” TFT	15” TFT
Brightness	150 – 400 cd/㎡	250 – 350 cd/㎡
Maximal Resolution	800 x 600 / 1024 x 768	1024 x 768
Touch Screen Type	Resistive	
Tilt Angle (Degree)	0° ~ 70°	
Storage		
HDD	1 x 3.5” Drive bay	
Flash Memory	Compact Flash (Type I & II)	
Expansion		
Mini-PCI Socket	1	
External I/O Ports		
Front I/O		
USB	2 (V2.0)	
Rear I/O		
PS/2 Keyboard	1	
PS/2 Mouse	1	
USB	2 (V2.0)	
Serial / COM	4 x powered COM ports (pin 1 / pin9 support +5Vv / +12V by Jumper)	
Parallel	1	
LAN (10 / 100)	1 (RJ45)	
2 nd VGA Output	1 female type connector with power	
Cash Drawer Port	2 x RJ11 (with 12V / 24V)	
Internal Interface		
USB	USB 5 / 6	
COM	COM5 for touch, COM6 for MSR	
Control / Indicator		
Power Button	1	
Indicator LED	1	

Power	
Power Supply	Internal 180W ATX switching mode power supply
Environment	
EMC & Safety	FCC, Class A, CE, LVD
Operating Temperature	5℃~ 35℃ (41℉ ~ 95℉)
Storage Temperature	-20℃~ 60℃ (-4℉~95℉)
Operating Humidity	20% ~ 80% RH non condensing
Storage Humidity	20% ~ 80% RH non condensing
Peripheral	
Input Device	
Second Display	8.4”/ 10.4”/12.1”TFT LCD
Magnetic Card Reader	3 Tracks (RS-232 / PS2 Interface)
Smart / IC Card Reader	USB Interface Half-Insert Type
3 in 1 MSR / IC Card / I-Button	MSR (RS-232) / Smart IC Card (USB) / I-Button (PS2)
Output Device	
Customer Display	VFD / LCD Pole Display
Communication	
Wireless LAN	Mini PCI 802.11a / b / g WI-FI card and antenna
Dimension (W x D x Hmm/inch)	POS462: 323x355x182-288mm
	POS465: 378x365x182-305mm
Weight	POS462: N.W. 8kgs / 3.64lbs / G.W. 9kgs / 4.10lbs
	POS 465: N.W. 9kgs / 4.10lbs / G.W. 10kgs / 4.55lbs
OS Support	Windows XP, WEPOS, XP Embedded, XP Professional for Embedded, WIN 2000 Professional Embedded, WIN NT 4.0, Linux, Redhat 7.2

Appendix B: Jumper Settings

B81 Motherboard



Jumper Settings

1.CPU Frequency Setting ◎ Factory Default Setting

Function	JP4 (SHORT)
FSB400	◎1-2, 3-4
FSB533	3-4

2. Compact Flash Master/Slave Setting

Function	JP3 (SHORT)
Master	◎1-2
Slave	N/C

3. CMOS Operation Mode

Function	JP6 (SHORT)
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 JP6 jumper setting from N/C to 1-2.
4. Wait 1 minute.
5. Change the JP6 jumper setting back to N/C.
6. Close the cabinet.
7. Apply AC power and continue.

4. POWER USB Power Setting (Reserved)

Function	JP14 (SHORT)
+24V	1-2
+12V	3-4

5. Cash Drawer Power Setting

Function		JP8 (SHORT)
Cash Drawer 1	+12 V	◎1-2
	+24V	3-4
Cash Drawer 2	+12 V	◎5-6
	+24V	7-8

6. COM1 Power Setting

Pin	Function	JP9 (SHORT)
1	DCD#	◎1-2
	+5V	3-4
	+12V	5-6
9	RI#	◎7-8
	+5V	9-10
	+12V	11-12

7. COM2 Power Setting

Pin	Function	JP11(SHORT)
1	DCD#	◎1-2
	+5V	3-4
	+12V	5-6
9	RI#	◎7-8
	+5V	9-10
	+12V	11-12

8. COM3 Power Setting

Pin	Function	JP10 (SHORT)
1	DCD#	◎1-2
	+5V	3-4
	+12V	5-6
9	RI#	◎7-8
	+5V	9-10
	+12V	11-12

9. COM4 Power Setting

Pin	Function	JP12 (SHORT)
1	DCD#	◎1-2
	+5V	3-4
	+12V	5-6
9	RI#	◎7-8
	+5V	9-10
	+12V	11-12

10. CPU Voltage Setting

CPU Type	JP1 (SHORT)	JP2 (SHORT)
◎P4	1-2, 3-4, 5-6, 7-8, 9-10, 11-12	N/C
Mobile Celeron 1.2G (1.3V)	N/C	3-4, 9-10

11. LCD ID Setting

Panel Number	Resolution	LVDS		JP5			
		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

12. Second Display Power Setting

Function	JP15 (SHORT)
+12V	1-2
NC	◎1

13. ACPI Mode Setting

Function	JP7 (SHORT)
Disable	1-2
Enable	◎N/C

14. Power Mode Setting

Function	JP13 (SHORT)
ATX Power	◎N/C
AT Power	1-2

Note:

OPEN

SHORT

Appendix C: 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

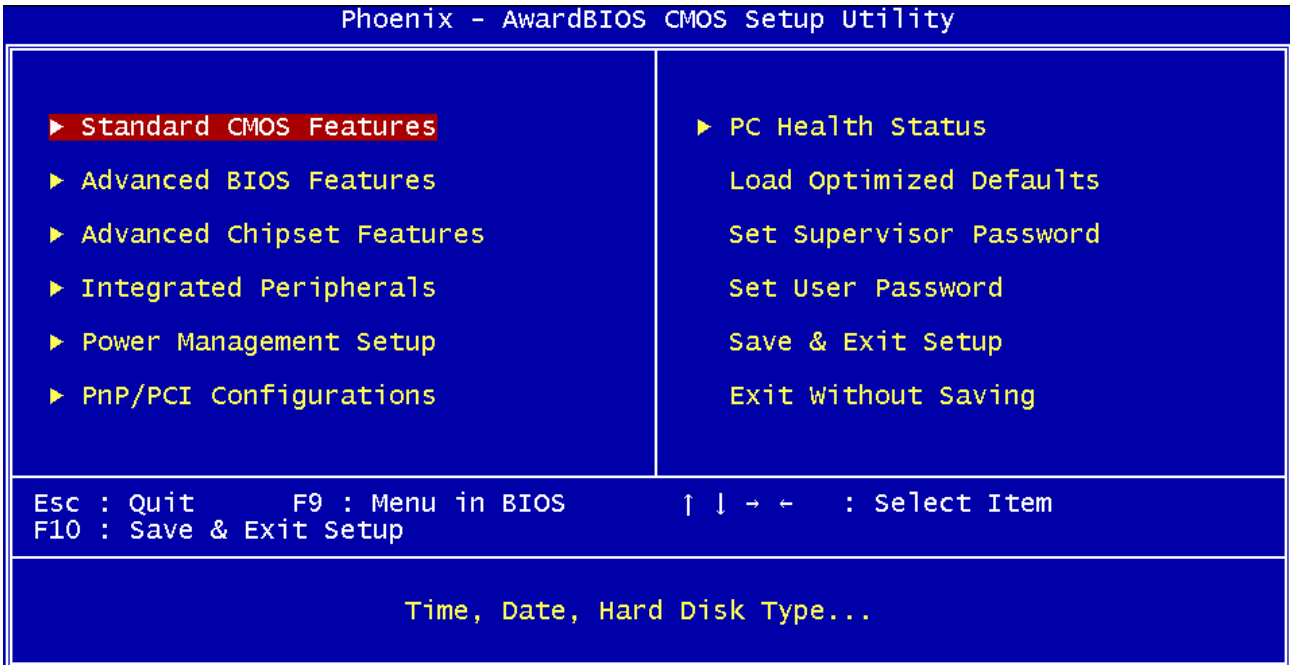
If, after making and saving system changes with the Setup utility, you find that this product no longer boots, start the BIOS setup and execute the following.

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 B81 BIOS version B81FV10D.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.