

# **POS600/605 B75/B77 User Manual**



## **Point-of-Sale Hardware System**

Copyright 2006 September  
All Rights Reserved  
Manual Version 1.3

The information contained in this document is subject to change without notice. We make no warranty of any kind with regard to this material, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. We shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

This document contains proprietary information that is protected by copyright. All rights are reserved. No part of this document may be photocopied, reproduced or translated to another language without the prior written consent of the manufacturer.

### **TRADEMARK**

Intel®, Pentium® and MMX are registered trademarks of Intel® Corporation. Microsoft® and Windows® are registered trademarks of Microsoft Corporation. ELO Touch is the registered trademark of ELO Touch Systems.

# 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. Keep 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



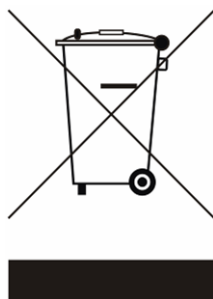
This device complies with the requirements of the EEC directive 89/336/EEC with regard to “Electromagnetic compatibility” and 73/23/EEC “Low Voltage Directive”.

## 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. Dispose of 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 centres 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.

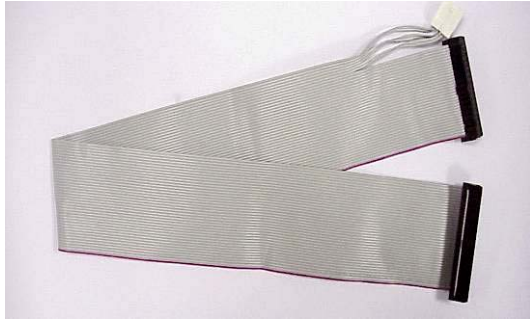
Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

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 .....	6
2. SYSTEM VIEW .....	7
2.1. FRONT VIEW .....	7
2.2. REAR VIEW .....	7
2.3. SIDE VIEW .....	8
3. SPECIFICATION .....	8
3.1. SYSTEM MEMORY COMBINATION.....	10
4. PERIPHERALS INSTALLATION .....	11
4.1. SYSTEM FDD INSTALLATION (B75 ONLY) .....	11
4.2. MAGNETIC CARD READER INSTALLATION .....	12
4.3. MAGNETIC CARD READER / I-BUTTON INSTALLATION.....	13
4.4. CASH DRAWER INSTALLATION .....	13
4.5. CUSTOMER DISPLAY (FLAT TYPE) INSTALLATION.....	18
4.6. CUSTOMER DISPLAY (POLE TYPE) INSTALLATION .....	19
4.7. SECOND DISPLAY INSTALLATION.....	20
5. DRIVER INSTALLATION .....	21
5.1. DRIVER LIST .....	21
5.2. CHIPSET DRIVER INSTALLATION .....	22
5.3. USB2.0 DRIVER INSTALLATION.....	23
5.4. VGA DRIVER INSTALLATION.....	26
5.5. AUDIO DRIVER INSTALLATION.....	27
5.6. ELO TOUCH SCREEN DRIVER INSTALLATION.....	28
5.7. POSTOUCH TOUCH DRIVER INSTALLATION .....	30
5.8. LAN DRIVER INSTALLATION .....	33
5.9. MINIPCI IEEE802.11G WLAN DRIVER INSTALLATION.....	34
5.10. SMART CARD READER DRIVER INSTALLATION .....	35
5.11. B75 NETMos DRIVER INSTALLATION .....	36
6. JUMPER SETTINGS.....	37
6.1. B75 MAIN BOARD.....	37
6.2. B77 MAIN BOARD.....	39
6.3. CONNECTOR JUMPER SETTINGS.....	42
7. BIOS SETTINGS.....	44

# 1. Item Checklist



a. External Floppy Cable



b. Power Cord



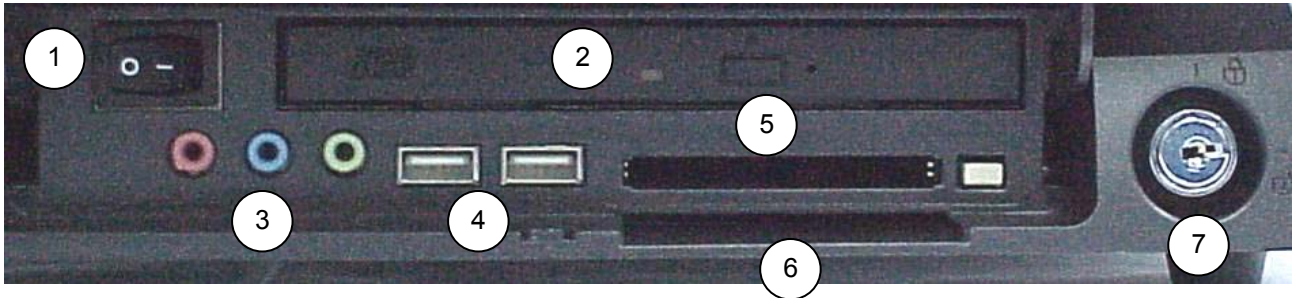
c. Driver CD



d. Manual

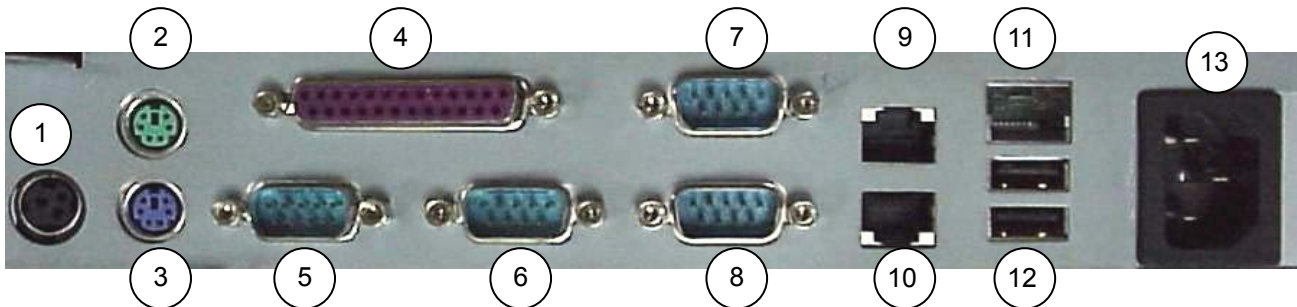
## 2. System View

### 2.1. Front View



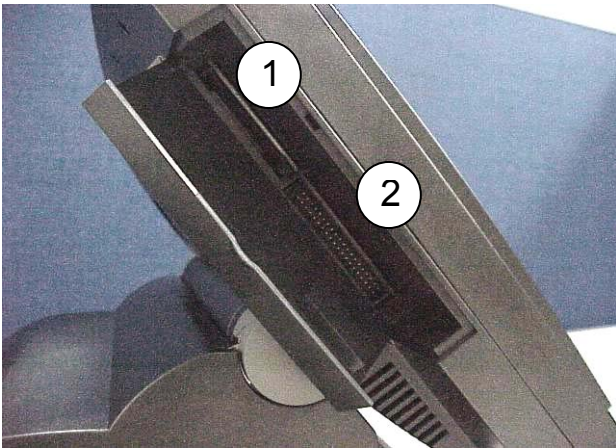
#	Function	#	Function
1	Power Switch	2	CD-ROM Drive
3	MIC/Line-In/Line-Out	4	USB 3 & 4
5	PCMCIA slot	6	Smart Card slot
7	Key Lock		

### 2.2. Rear View



#	Function	#	Function
1	DC Output 24V/2.0A	2	PS/2 Mouse
3	PS/2 Keyboard	4	LPT
5	COM1	6	COM2
7	COM3 / Optional 2 <sup>nd</sup> Display	8	COM4 / Optional Internal Smart Card Reader
9	Cash Drawer 1	10	Cash Drawer 2
11	LAN	12	USB 1 & 2
13	AC Inlet		

## 2.3. Side View



#	Function
1	Compact Flash Slot
2	External FDD Connector

## 3. Specification

Mainboard	B75	B77
CPU Supports	Intel SK478 CPU Up to P4 2.6G, Celeron 2.5G	Intel SK478 CPU Up to P4 2.6G, Celeron 2.5G, Mobile Celeron 1.2G
Chipset	SIS 65 & SIS961 / FSB400 MHz	Intel 852GM & ICH4 / FSB400 MHz
System Memory	2 x DDR DIMM sockets supported with memory size up to 2GB	2 x DDR DIMM sockets supported with memory size up to 1GB
Graphic Memory	UMA Shared Memory up to 64MB	
<b>LCD Touch Panel</b>		
LCD Size	12.1" / 15" TFT LCD	
Brightness	POS 600: 200 cd/m <sup>2</sup>	
	POS 605: 250 cd/m <sup>2</sup>	
Resolution	800 x 600 / 1024 x 768	
Touch Screen	Resistive type	
Tilt Angle	0° - 60°	
<b>Storage Devices</b>		
HDD	1 x 3.5" Drive Bay	
ODD	1 x Slim CD-ROM / CD-RW / DVD-ROM Drive Bay	

<b>Storage Devices</b>		
FDD	External FDD Connector	N/A
Flash Memory	Compact Flash (Type I / II)	
<b>Expansion</b>		
Mini-PCI Socket	N/A	1
PCMCIA	One Slot, Type II (Optional)	N/A
<b>External I/O Ports</b>		
<b>Front I/O</b>		
USB	2 (V1.1)	2 (V2.0)
Audio	1	
Line in	1	
Line out	1	
Mic in	1	
<b>Rear I/O</b>		
PS/2 Keyboard	1	
PS/2 Mouse	1	
USB	2 (V1.1)	2 (V2.0)
Serial / COM	4 x powered COM ports (pin 1 / pin 9 support +5V / +12V by Jumper)	
Parallel	1	
LAN (10 / 100)	1 (RJ45)	
2 nd VGA Output	1 x female type connector with power	
Cash Drawer Port	2 x RJ11 (with 12V / 24V)	
Internal Speaker	2 x 2W	
POS Printer Jack	+24V DC Output	
<b>Internal Interface</b>		
USB	N/A	USB5 / USB6
COM	B77: COM5 for touch, COM6 for MSR	
	B55 / B75: COM3 for Smart IC Card Reader ; COM4 for MSR ; COM5 for touch	
2 nd VGA	1 x 10 pin header	
<b>Control / Indicator</b>		
Power Button	1	
Indicator LED	2 (Power, HDD for POS600) ; 1 (Power for POS605)	1 (Power)
<b>Power</b>		
Power Supply	Internal 180W ATX switching mode power supply	

<b>Environment</b>		
EMC & Safety	FCC, Class A, CE, LVD	
Operating Temperature	5°C ~ 35°C (41°F ~ 95°F)	
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)	
Operating Humidity	20% ~ 80% RH non condensing	
Storage Humidity	20% ~ 80% RH non condensing	
<b>Peripheral</b>		
Magnetic Card Reader	3 Tracks (RS-232 / PS2 Interface)	
I-Button	Dallas Key PS2 Interface	
Customer Display	VFD / LCD Display	
Wireless LAN	N/A	Mini PCI Card
Dimension (W x D x H)	POS 600: 300 x 301 x 201 – 297mm / 11.8" x 11.9" x 7.9" – 11.7"	
	POS 605: 379 x 363 x 213 – 324mm / 14.9" x 14.3" x 8.4" – 12.8"	
Weight	POS 600: N.W. 8kgs / 17.6lbs / G.W. 9kgs / 19.8lbs	
	POS 605: N.W. 9kgs / 19.8lbs / G.W. 10kgs / 22lbs	
OS Support	Windows XP, WEPOS, XP Embedded, XP Professional for Embedded, WIN 2000 Professional Embedded, WIN NT 4.0, Linux, Redhat 7.2	

- This specification is subject to change without prior notice.

### 3.1. System Memory Combination

RAM Size Slot	128MB		256MB			512MB			1024MB	2048MB
	X	128	128	256	X	256	512	X	512	1024
DIMM1	X	128	128	256	X	256	512	X	512	1024
DIMM2	128	X	128	X	256	256	X	512	512	1024

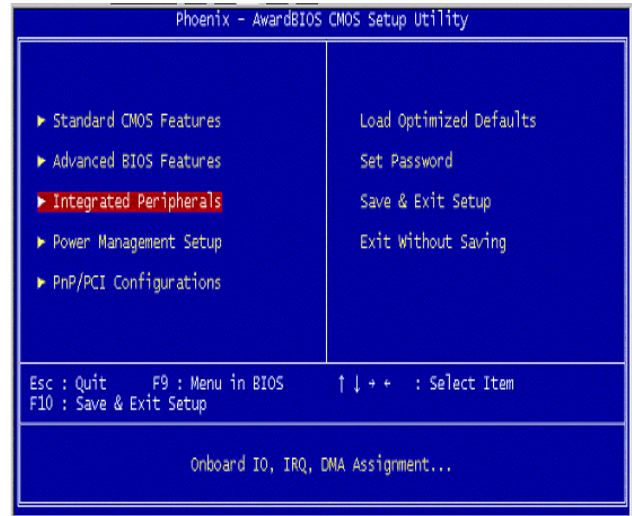
- Note: 1. The DIMM1 of POS600 does not support RAM over 27 mm in height.  
2. The DIMM2 of POS600 does not support RAM over 31 mm in height.

## 4. Peripherals Installation

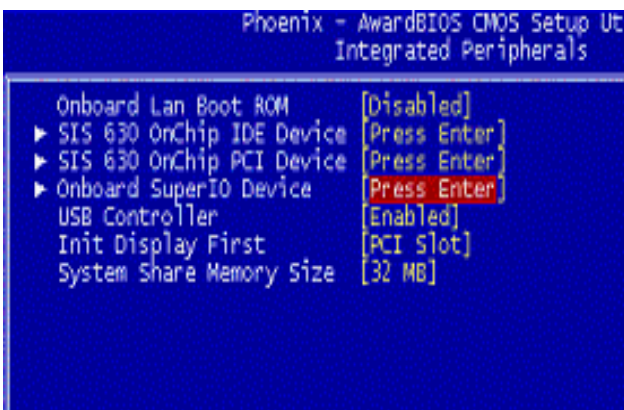
### 4.1. System FDD Installation (For B75)



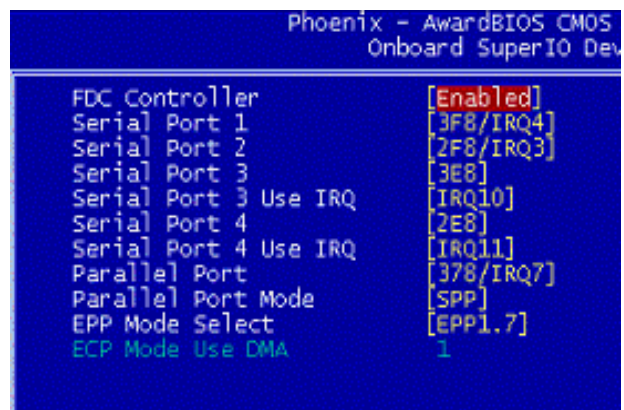
a. Connect the FDD cable at the left side of the LCD module.



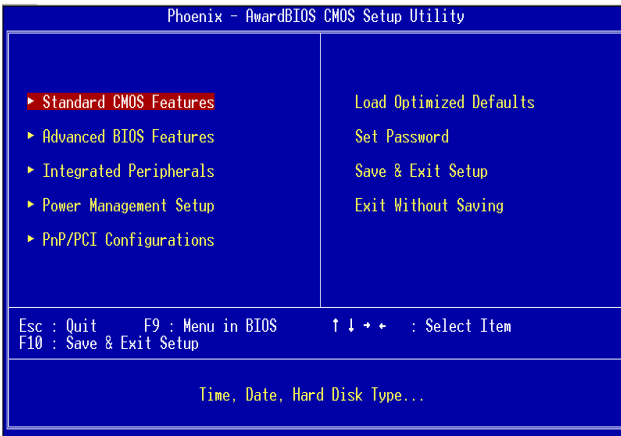
b. Enter "Integrated Peripherals" on BIOS CMOS Setup Utility main menu.



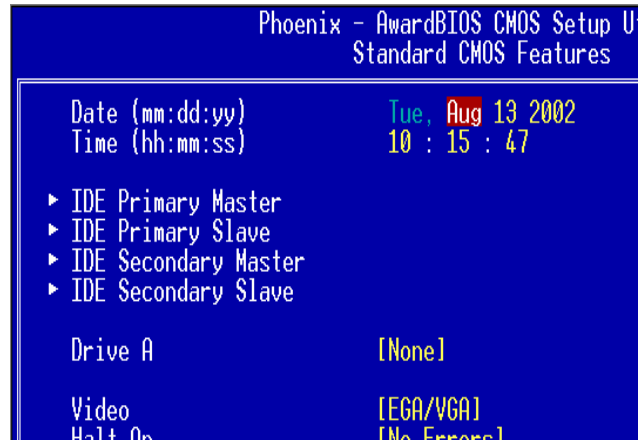
c. Move the arrow key downward to the "Onboard Super IO Device" and press enter.



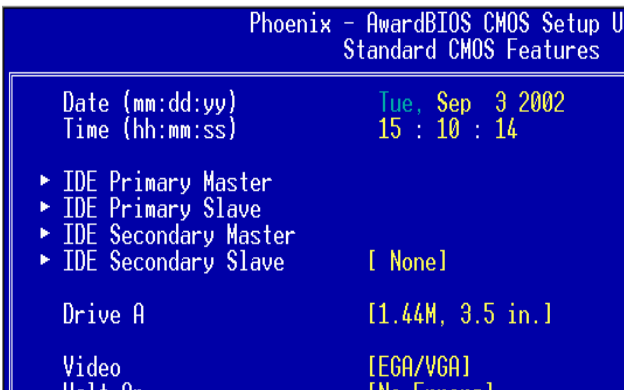
d. Move the arrow key downward to the "FDC Controller" and select "Enabled".



e. Enter "Standard CMOS Features" on the BIOS CMOS Setup Utility main menu.

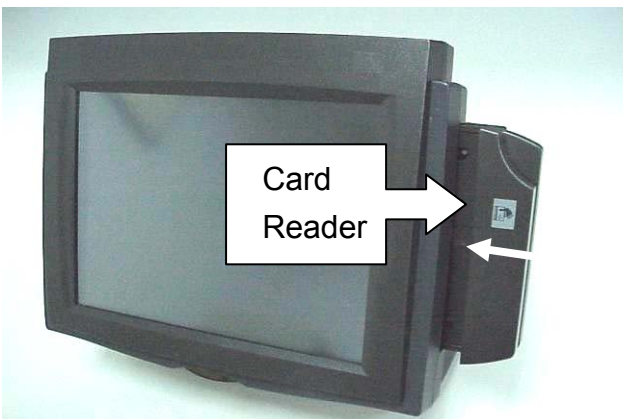


f. Move the arrow key downward to the "Drive A".



g. Use "Page Up" or "Page Down" key for FDD Installation. Press "F10" to save.

## 4.2. Magnetic Card Reader Installation



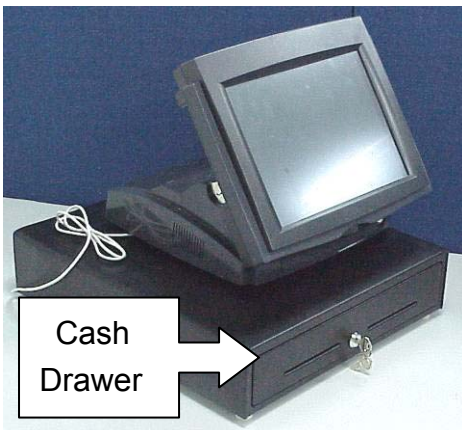
a. Slide the MCR at the right side of System and tighten the screws (2).

### 4.3. Magnetic Card Reader / I-button Installation



a. Slide the MCR/I-button at the right side of System and tighten the screws (2).

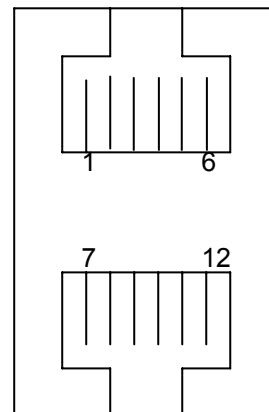
### 4.4. Cash Drawer Installation



a. Put the cash drawer under the system and connect the cash drawer cable to the system. Please confirm the pin assignment.

#### 4.4.1. 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



## 4.4.2. B75 Cash Drawer Controller registers

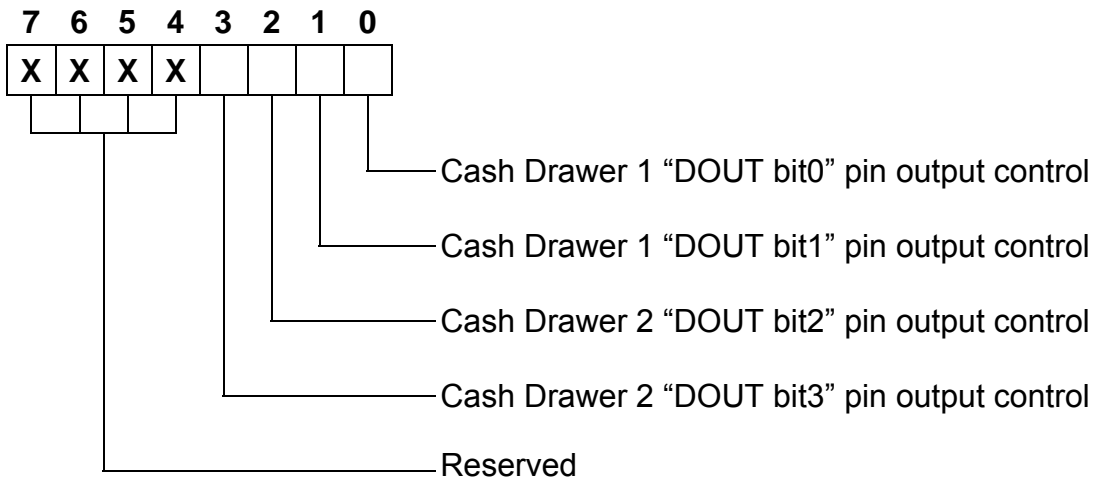
The Cash Drawer Controller use two I/O addresses to control the Cash Drawer – the Cash Drawer Control Register and the Cash Drawer Status Register.

### 4.4.2.1. Cash Drawer Control Register

Register Location: 200h

Attribute: Write

Size: 8bit



Bit 7-4: Reserved

Bit 3: Cash Drawer 2 "DOUT bit3" pin output control.

= 1: Opening the Cash Drawer 2

= 0: Allow close the Cash Drawer 2

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

= 1: Opening the Cash Drawer 2

= 0: Allow close the Cash Drawer 2

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

= 1: Opening the Cash Drawer 1

= 0: Allow close the Cash Drawer 1

Bit 0: Cash Drawer 1 "DOUT bit0" pin output control.

= 1: Opening the Cash Drawer 1

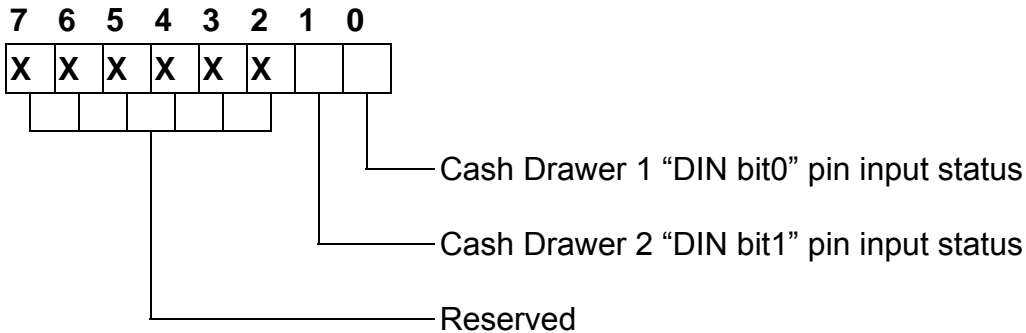
= 0: Allow close the Cash Drawer 1

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

Suggestion controls the bit3/2 or bit1/0 at the same time.

### 4.4.2.2. Cash Drawer Status Register

Register Location: 201h  
 Attribute: Read  
 Size: 8bit



Bit 7-2: Reserved

Bit 1: Cash Drawer 2 "DIN bit1" pin input status.

= 1: the Cash Drawer 2 opened or not exists.

= 0: the Cash Drawer 2 closed.

Bit 0: Cash Drawer 1 "DIN bit0" pin input status.

= 1: the Cash Drawer 1 opened or not exists.

= 0: the Cash Drawer 1 closed.

### 4.4.2.3. Cash Drawer Control Command Example

Use Debug.EXE program under DOS or Windows98

Command	Cash Drawer 1	Cash Drawer 2
O 200 01	Opening	Allow to close
O 200 00	Allow to close	Allow to close
<ul style="list-style-type: none"> <li>➤ Set the I/O address 200h bit0 =1 for opening Cash Drawer 1 by "DOUT bit0" pin control.</li> <li>➤ Set the I/O address 200h bit0 = 0 for allow close Cash Drawer 1.</li> </ul>		

Command	Cash Drawer 1	Cash Drawer 2
O 200 04	Allow to close	Opening
O 200 00	Allow to close	Allow to close
<ul style="list-style-type: none"> <li>➤ Set the I/O address 200h bit2 = 1 for opening Cash Drawer 2 by "DOUT bit2" pin control.</li> <li>➤ Set the I/O address 200h bit2 = 0 for allow close Cash Drawer 2.</li> </ul>		

Command	Cash Drawer 1	Cash Drawer 2
I 201	Check status	Check status
<ul style="list-style-type: none"> <li>➤ The I/O address 201h bit0 =1 mean the Cash Drawer 1 is opened or not exist.</li> <li>➤ The I/O address 201h bit0 =0 mean the Cash Drawer 1 is closed.</li> <li>➤ The I/O address 201h bit1 =1 mean the Cash Drawer 2 is opened or not exist.</li> <li>➤ The I/O address 201h bit1 =0 mean the Cash Drawer 2 is closed.</li> </ul>		

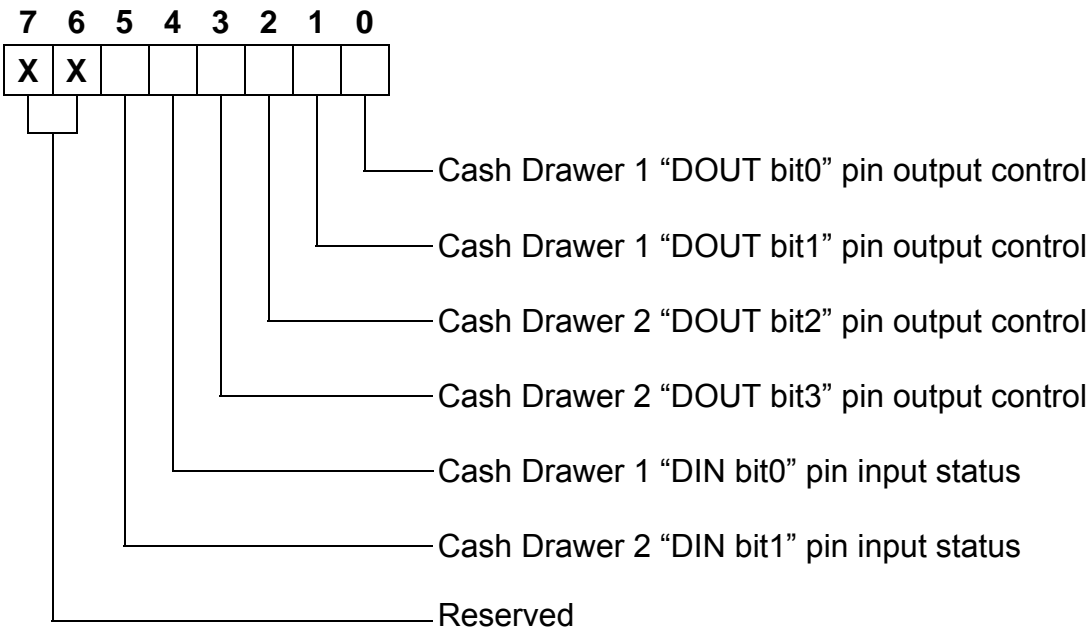
### 4.4.3. B77 Cash Drawer Controller Registers

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.

#### 4.4.3.1. Cash Drawer Control Register and Cash Drawer Status Register

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

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



Bit 7: Reserve.

Bit 6: Reserve.

Bit 5: Cash Drawer 2 “DIN bit1” pin input status.  
= 1: the Cash Drawer 2 closed or not exist.  
= 0: the Cash Drawer 2 opened.

Bit 4: Cash Drawer 1 “DIN bit0” pin input status.  
= 1: the Cash Drawer 1 closed or not exist.  
= 0: the Cash Drawer 1 opened.

Bit 3: Cash Drawer 2 “DOUT bit3” pin output control.

= 1: Opening the Cash Drawer 2

= 0: Allow close the Cash Drawer 2

Bit 2: Cash Drawer 2 “DOUT bit2” pin output control.

= 1: Opening the Cash Drawer 2

= 0: Allow close the Cash Drawer 2

Bit 1: Cash Drawer 1 “DOUT bit1” pin output control.

= 1: Opening the Cash Drawer 1

= 0: Allow close the Cash Drawer 1

Bit 0: Cash Drawer 1 “DOUT bit0” pin output control.

= 1: Opening the Cash Drawer 1

= 0: Allow close the Cash Drawer 1

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

#### 4.4.3.2. Cash Drawer Control Command Example (B77 M/B)

Use Debug.EXE program under DOS or Windows98

Command	Cash Drawer 1	Cash Drawer 2
O 4B8 01	Opening	Allow to close
O 4B8 00	Allow to close	Allow to close

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

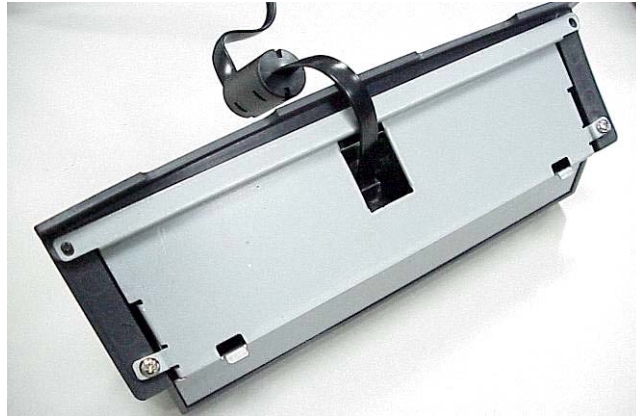
Command	Cash Drawer	Cash Drawer 2
I 4B8	Check status	Check status

➤ The I/O address 4B8h bit4 =1 mean the Cash Drawer 1 is closed or not exist.  
➤ The I/O address 4B8h bit4 =0 mean the Cash Drawer 1 is opened.  
➤ The I/O address 4B8h bit5 =1 mean the Cash Drawer 2 is closed or not exist.  
➤ The I/O address 4B8h bit5 =0 mean the Cash Drawer 2 is opened.

## 4.5. Customer Display (Flat Type) Installation



a. Connect the RS232 cable.



b. Connect the other end of the RS232 cable to the Customer Display module.



c. Tighten the screws (2) at the both sides of the customer display.

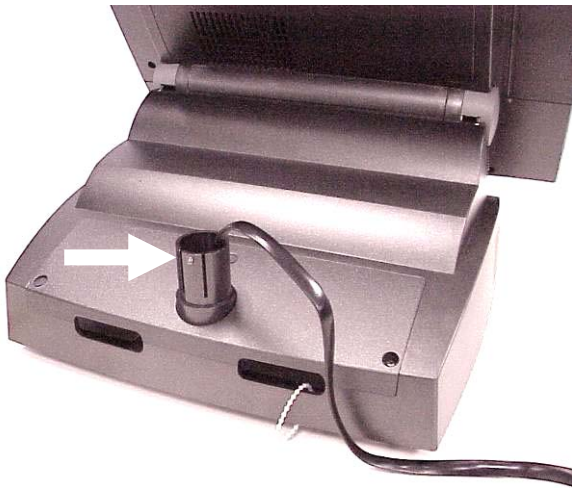
## 4.6. Customer Display (Pole type) Installation



a. Connect the DB-9F cable.



b. Remove the cap from the pole display base by fingers.



c. Install the pole support kit to the system base unit.



d. Install the pole to the pole support kit.



e. Install the top of the pole display to the support pole.



f. Connect the RJ45 connector into the jack of the customer display.



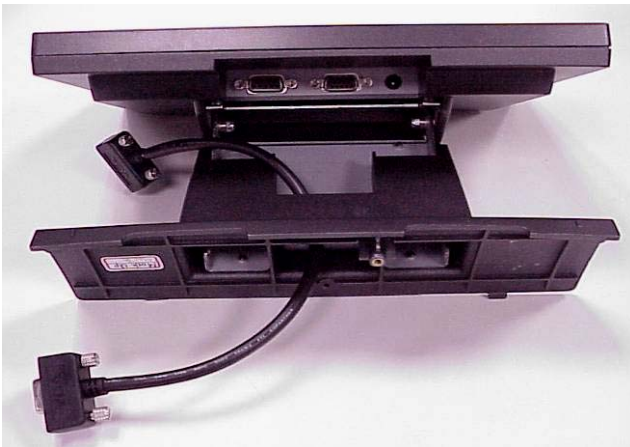
g. Insert the screw into the hole of the connection kit.



h. Fasten the cap at the other end of the screw.

## 4.7. 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



a. Get the VGA cable through the supporter of the second display.



b. Connect the male head of the VGA cable to the second display.



c. Mount the second display on the rear of the system and tighten the screws (3) on the supporter (The third one is behind the supporting pole).



d. Connect the other end of the VGA cable (female) to the system.

## 5. Driver Installation

### 5.1. Driver List

Chapter 5.4, 5.5, 5.6, 5.7, 5.8 and 5.10 are valid for B75 and B77.

#### B77 Driver List

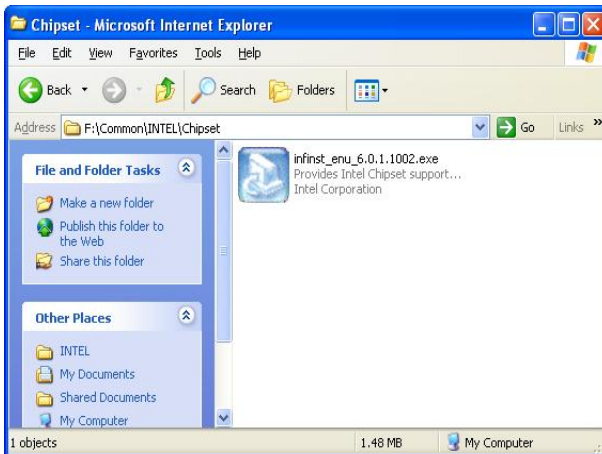
Folder/File	File Description
<CD>:\COMMON\INTEL\Chipset	Chipset driver
<CD>:\COMMON\INTEL\USB20	USB 2.0 driver
<CD>:\COMMON\INTEL\VGA\i85x	VGA driver
<CD>:\COMMON\Ac97_codec\Realtek\ALC202A	Audio driver
<CD>:\COMMON\Elo_Touch	ELO Touch Screen driver
<CD>:\COMMON\POS_Touch	POSTouch Touch Screen driver
<CD>:\COMMON\Lan_driver\R8139_810x	10\100Mb LAN driver
<CD>:\COMMON\Wireless_LAN\802.11g\Inprocomm_I PN2220	MiniPCI IEEE802.11g Wireless LAN driver
<CD>:\Common\SmartCard	Smart Card reader driver

## B75 Driver List

Folder/File	File Description
<CD>:\B75\VGA_Win2KXP	VGA driver for win2K_XP
<CD>:\B75\Audio	Audio driver
<CD>:\Common\Netmos	NetMos driver
<CD>:\Common\Elo_Touch	ELO Touch Screen driver
<CD>:\Common\POS_Touch	POSTouch Touch Screen driver
<CD>:\Common\Lan_driver\R8139_810x	10\100Mb LAN driver
<CD>:\Common\SmartCard	Smart Card reader driver

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

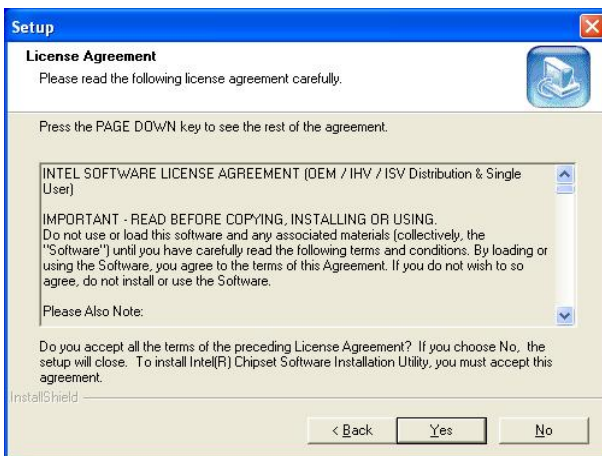
## 5.2. Chipset Driver Installation (For B77)



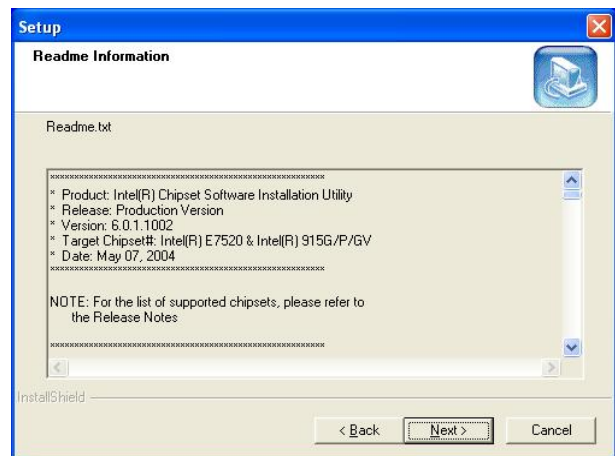
a. Double click "infinst\_enu\_6.0.1002" on the "My Computer" window.



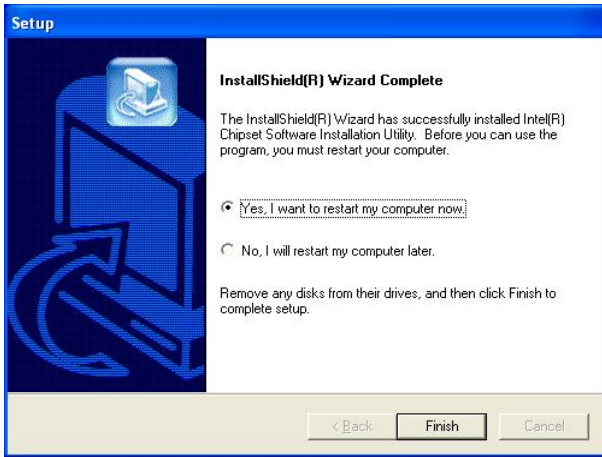
b. Click the "Next" button on the "Welcome" window.



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



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

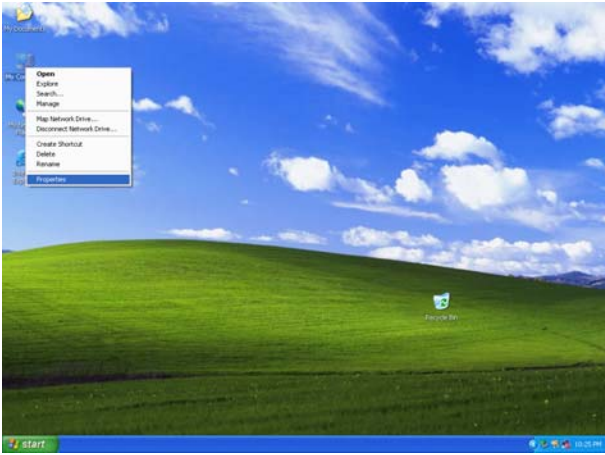


e. Click the “Finish” button and restart your system.

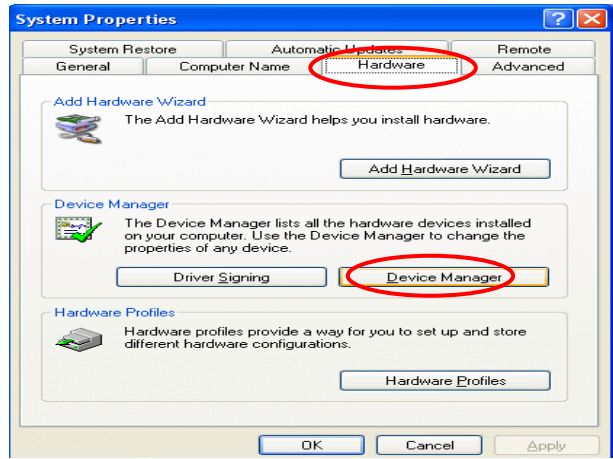
## 5.3. USB2.0 Driver Installation (For B77)

### OS Requirements

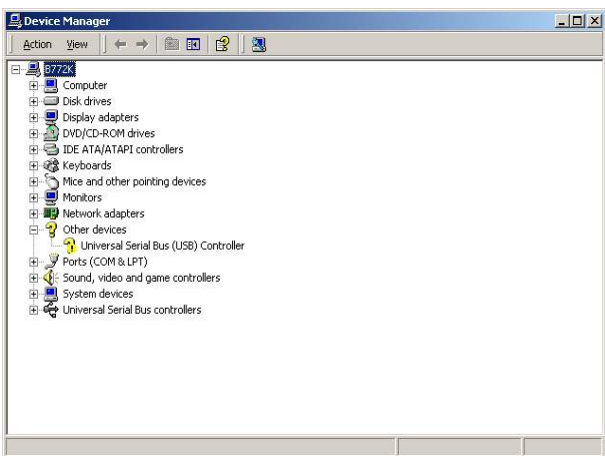
OS	USB 2.0 requirements
Windows XP	USB 2.0 drivers are provided in <a href="#">Service Pack 1</a> (SP1) for Windows XP, which is available through <a href="#">Windows Update</a> .
Windows 2000	USB 2.0 drivers are available through <a href="#">Windows Update</a> or Service Pack 4.
Windows 98SE/Me	USB 2.0 drivers are available on the <a href="#">Intel developer site</a> .
Windows 98 (Retail)	Developers and OEMs should contact <a href="#">Orange Ware</a> . 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 <a href="#">kernel 2.4.19</a> or later development kernels, or in the 2.4.19 or later production kernel. <a href="#">More information</a> .



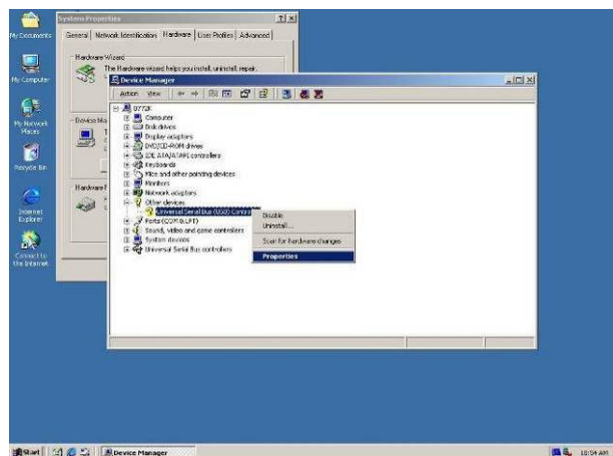
a. Right click "My Computer" on the windows desktop and select "properties".



b. Select "Hardware" → "Device Manager" on system properties.



c. Select "Other Devices" → "Universal Serial Bus (USB) Controller" → "Properties" in the 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.



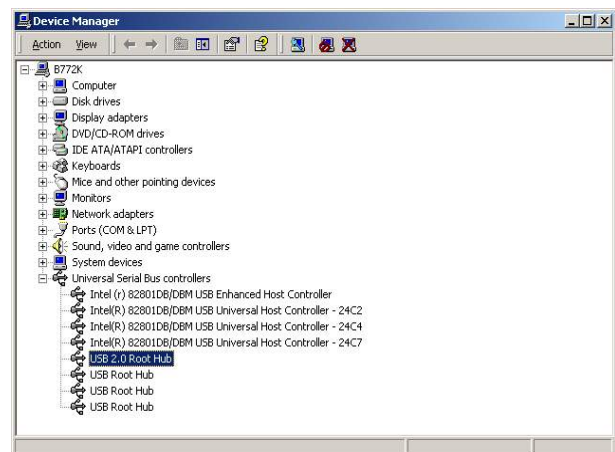
h. Press “Browse” to select driver and then click the “OK” button to next page.



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

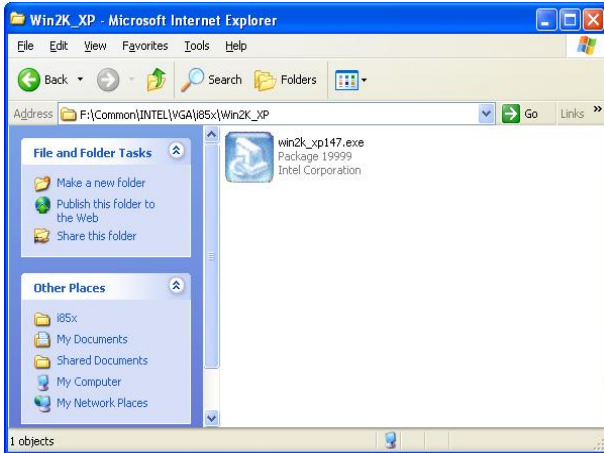


j. Click the “Finish” button to complete this process.

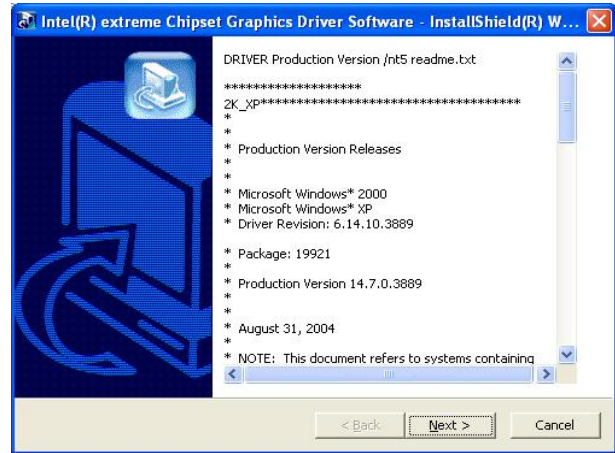


k. Finished.

## 5.4. 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”.

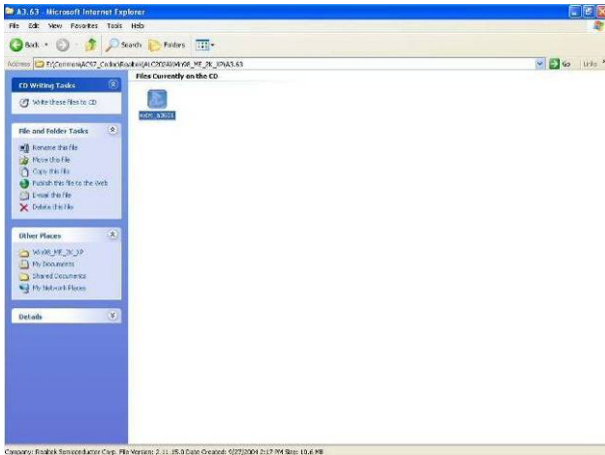


d. Click the “Yes” button on the “License Agreement” window.

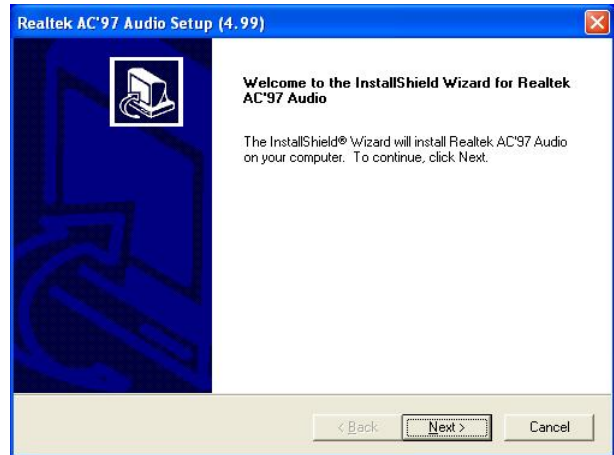


e. Click the “Finish” button and restart your system.

## 5.5. Audio Driver Installation



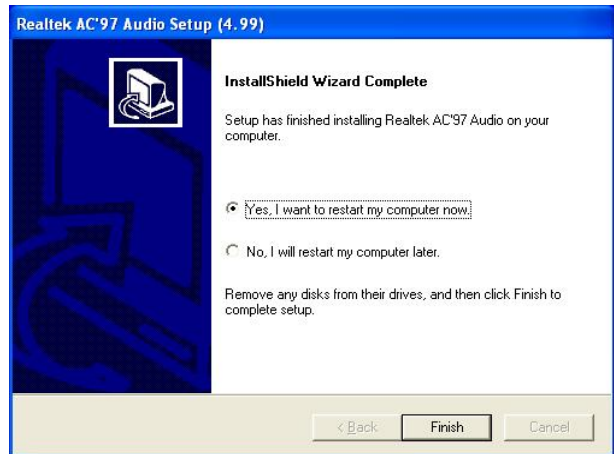
a. Double click the "wdm\_93631" on the My computer window.



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

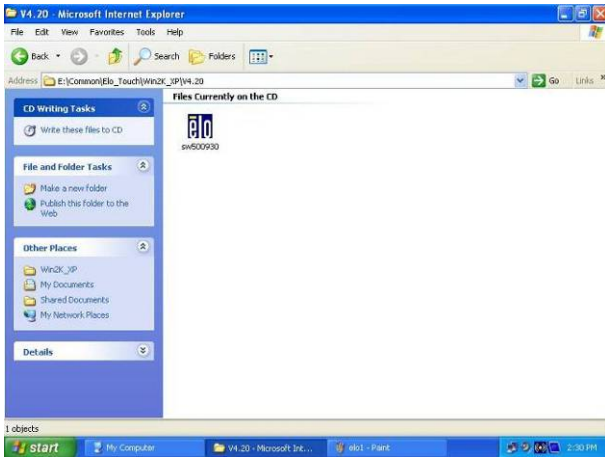


c. Click the "Continue Anyway" button on the Hardware Installation window.



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

## 5.6. Elo Touch Screen Driver Installation



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



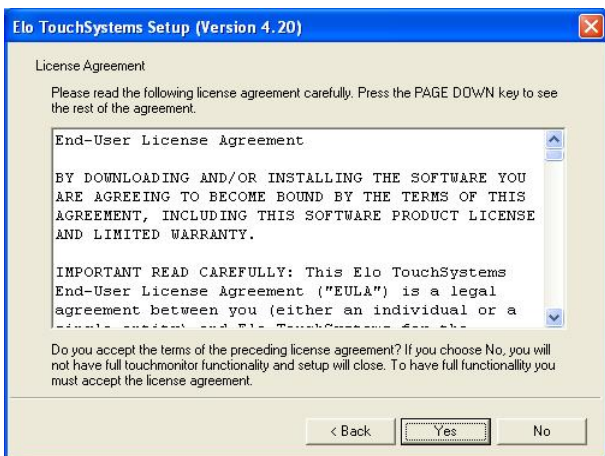
b. Click the "OK" button on the Welcome window.



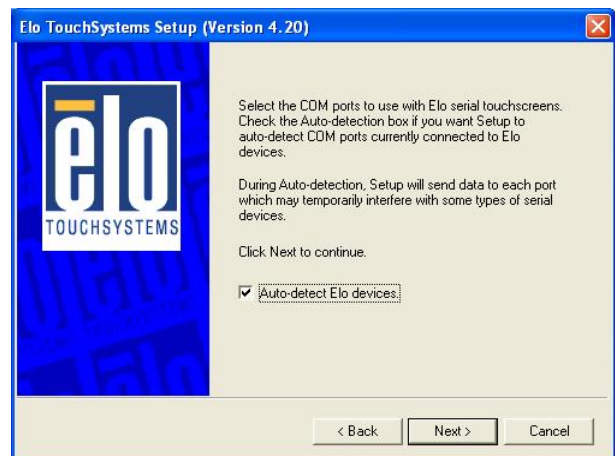
c. Click the "Unzip" button on the WinZip Self-Extractor window.



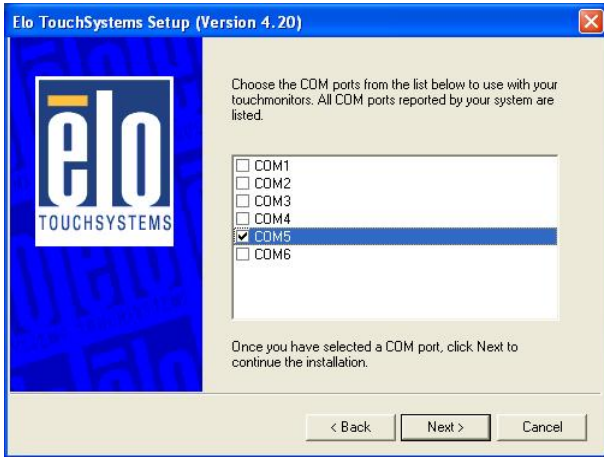
d. Select "Install Serial Touchscreen Drivers" and then click the "Next" button on the Welcome window.



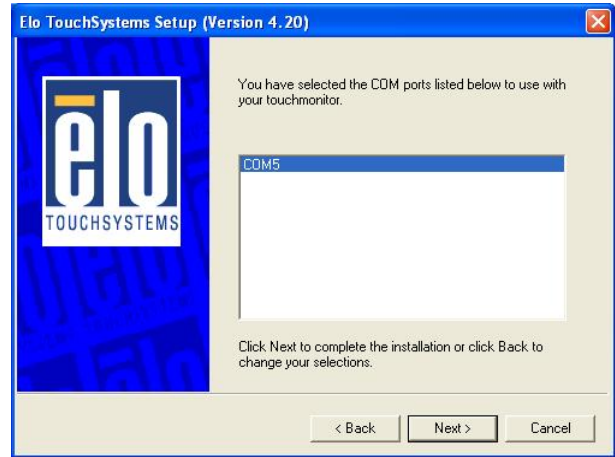
e. Click the "Yes" button on the License Agreement window.



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.



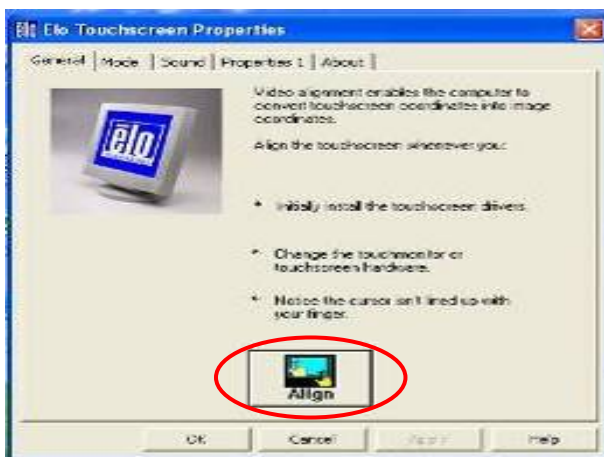
h. Click the “Next” button on the You have selected the COM ports...window.



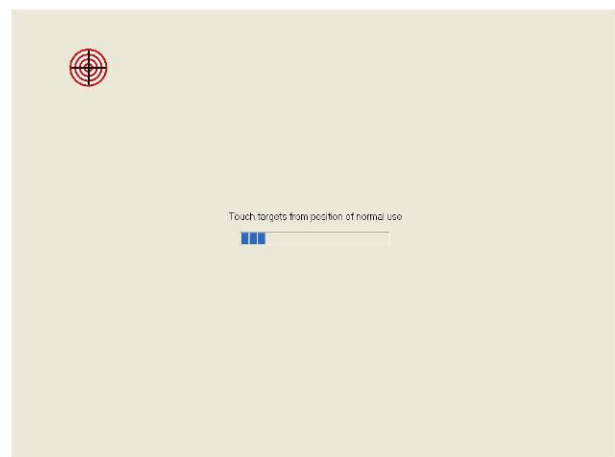
i. Click the “Finish” button on the Setup Complete window



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

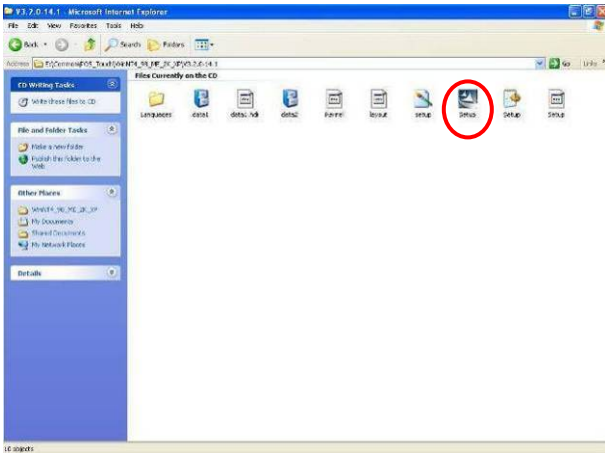


k. After the computer restarted, click “Align” on the Elo Touchscreen Properties window.

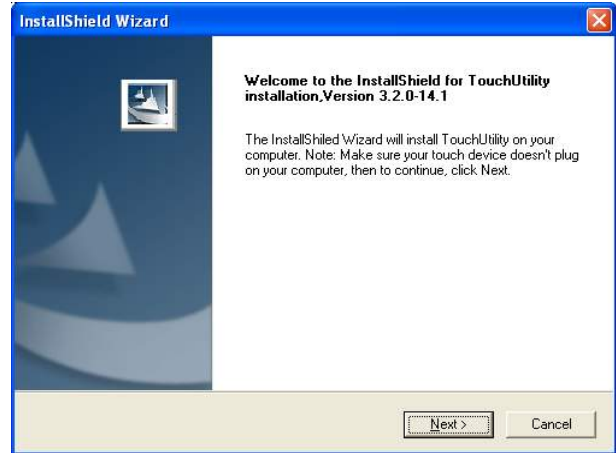


l. Calibrate three red points.

## 5.7. POSTouch Touch Driver Installation



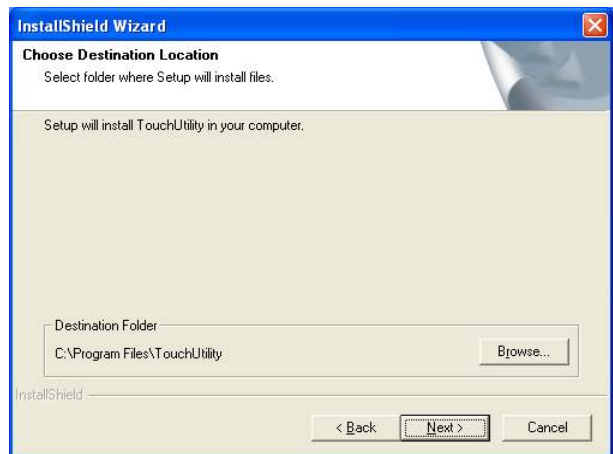
a. Double click the "Setup" on the "My Computer" window.



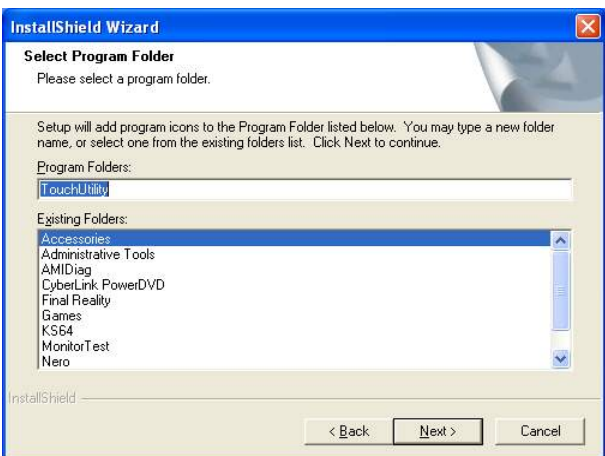
b. Click the "Next" button on the "Welcome window".



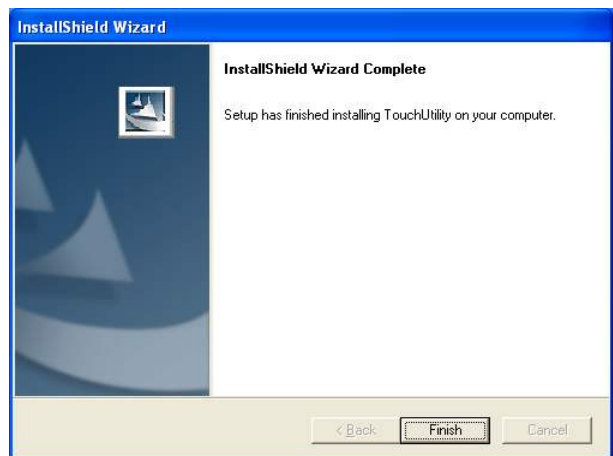
c. Click the "Yes" button on the "License Agreement" window.



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



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



f. Click the "Finish" button on the "Install Shield Wizard Complete" window.



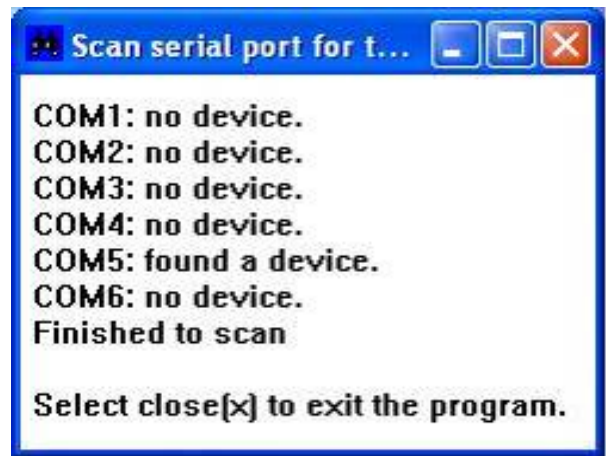
g. Click the “Continue Anyway “ button on the “Hardware Installation” window.



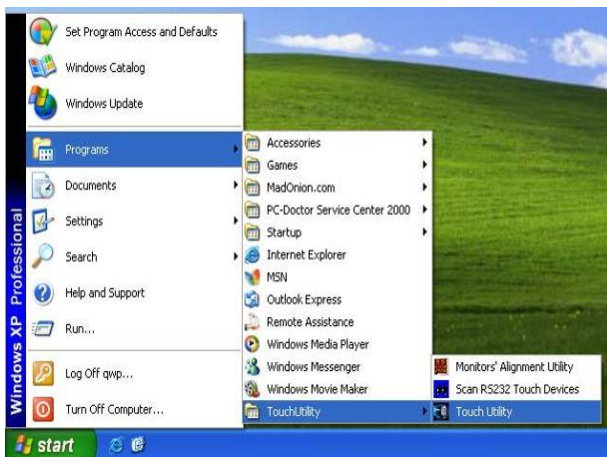
h. Select the “Yes” and click the ”OK” button and restart your system.



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



j. Automatically scan serial port for touch.



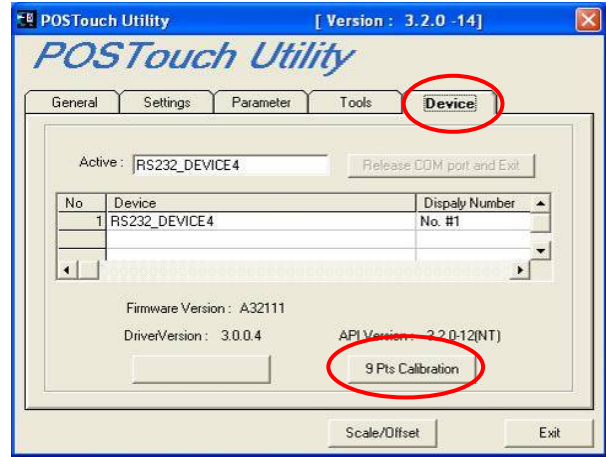
k. Select “Programs → TouchUtility → Touch Utility”.



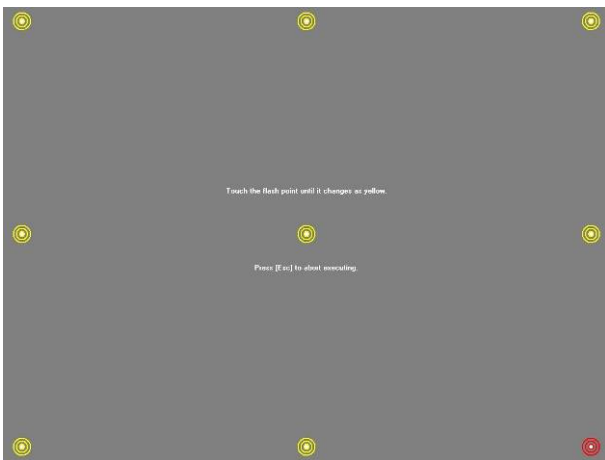
l. Click “Scale / Offset” on the POSTouch Utility window.



m. Calibrate three red flash points.

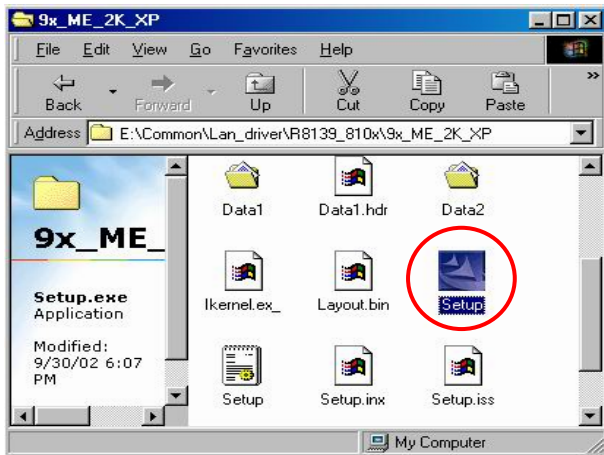


n. Select “Device → 9Pts Calibration” on the POSTouch Utility window.

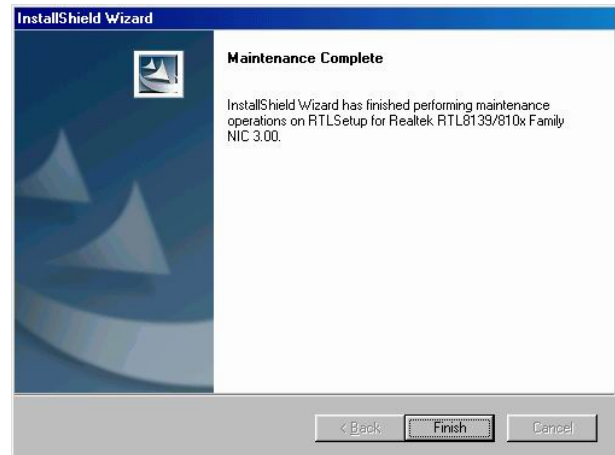


o. Calibrate nine red flash points. Then, click “Exit” on the POSTouch Utility window.

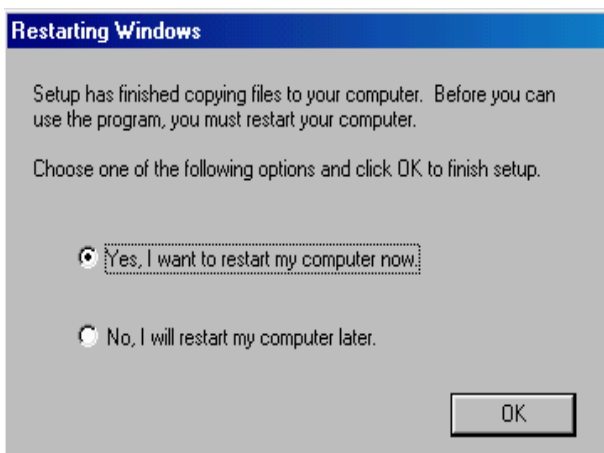
## 5.8. LAN Driver Installation



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

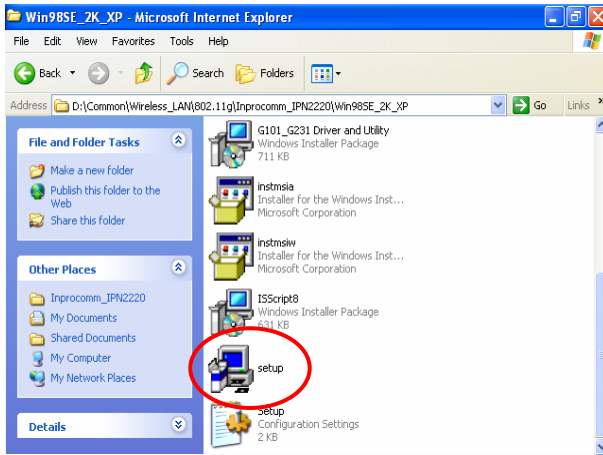


b. Click the "Finish" button on the "Maintenance complete" window.

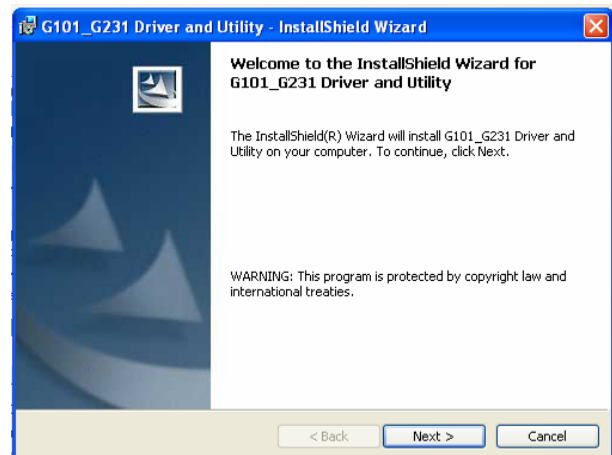


c. Click the "OK" button and restart your system.

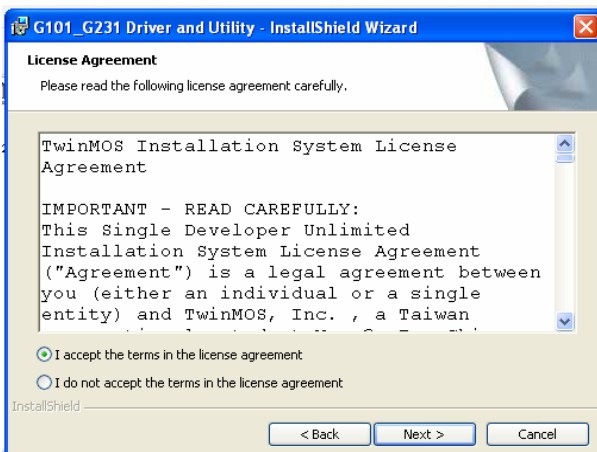
## 5.9. MiniPCI IEEE802.11g WLAN Driver Installation (For B77)



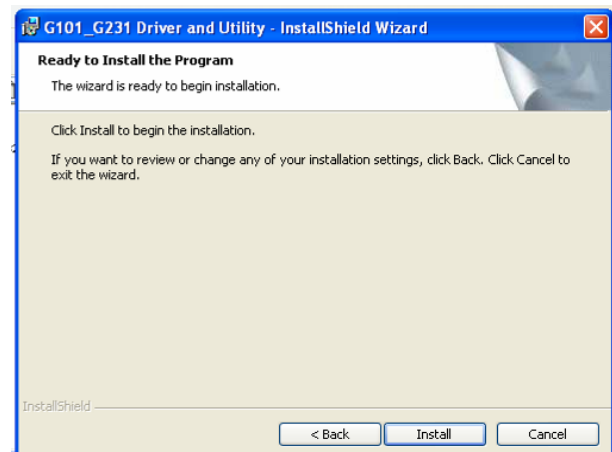
a. Double click the "Setup" on the "My Computer" window.



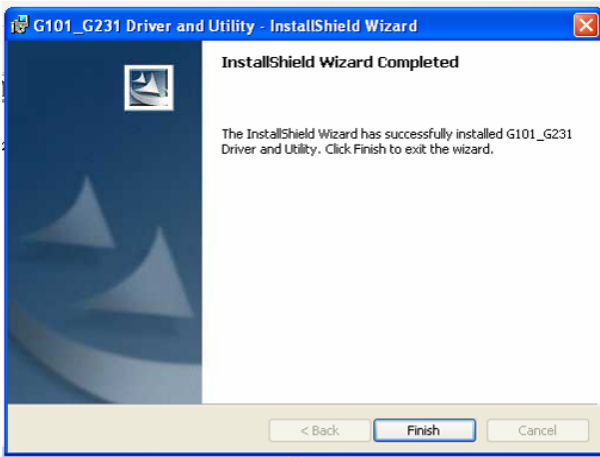
b. Click the "Next" button on the "Welcome to the InstallShield Wizard for G101\_G231 Driver & Utility" window.



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



d. Click the "Install" on the "Ready to Install the Program" window.



e. Click the “Finish” on the “InstallShield Wizard Completed” window.

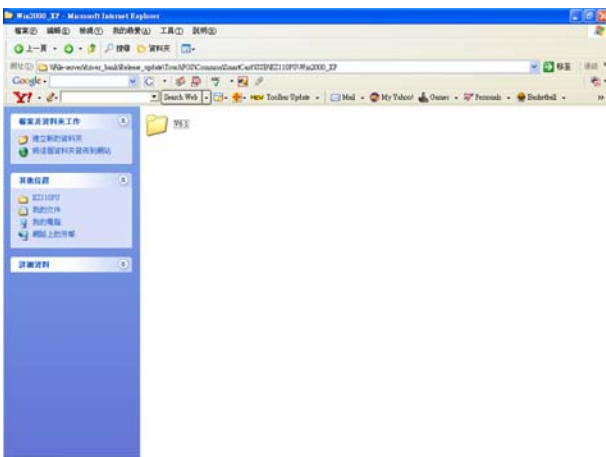
## 5.10. Smart Card Reader Driver Installation



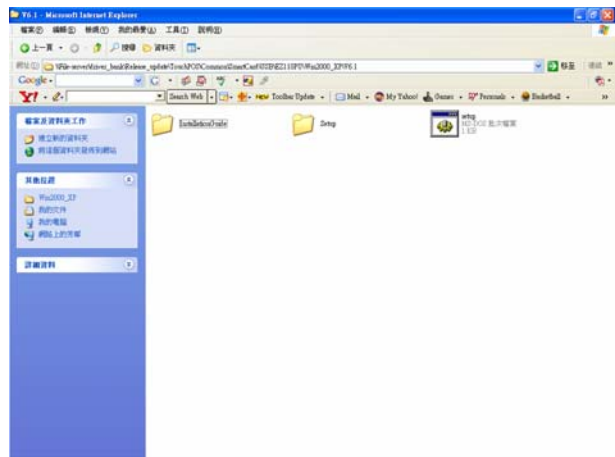
a. Plug the EZUSB Smart Card Reader into your computer and Click the "Cancel" button if the "Found New Hardware Wizard" dialog appears.



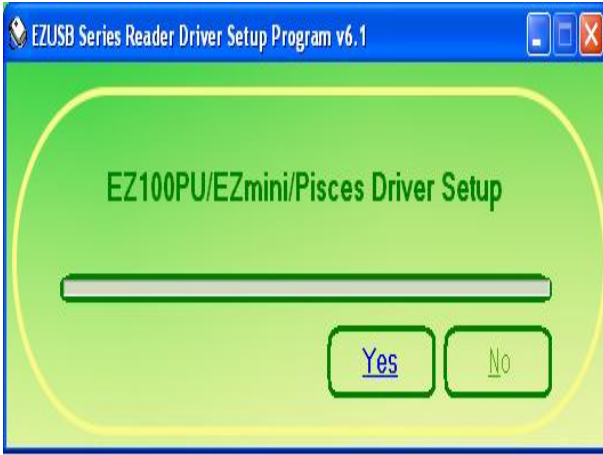
b. Choose the “ Smart Card Reader”. Click “ Win2K, XP” on the window.



c. Click “V6.1” on the window.



d. Click “Setup” on the window.

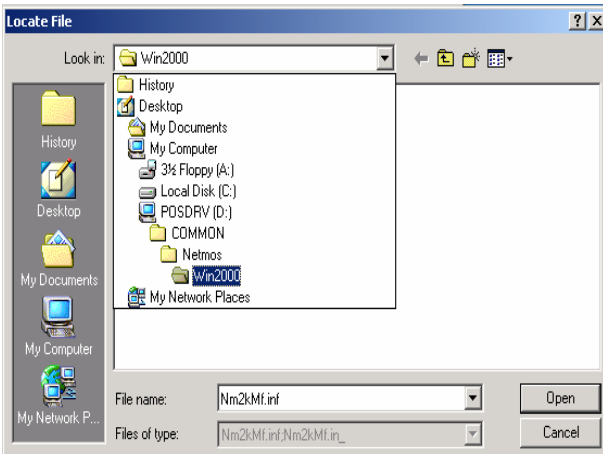


e. Click "Yes" button on the "EZUSB Series Reader Driver Setup Program v.6.1" window.

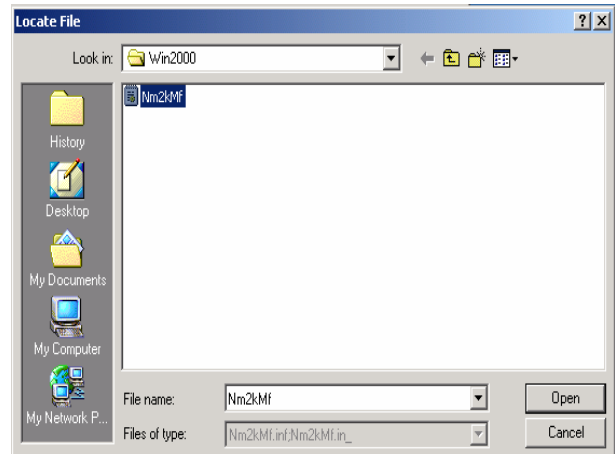


f. Click the "Yes" button and restart your system.

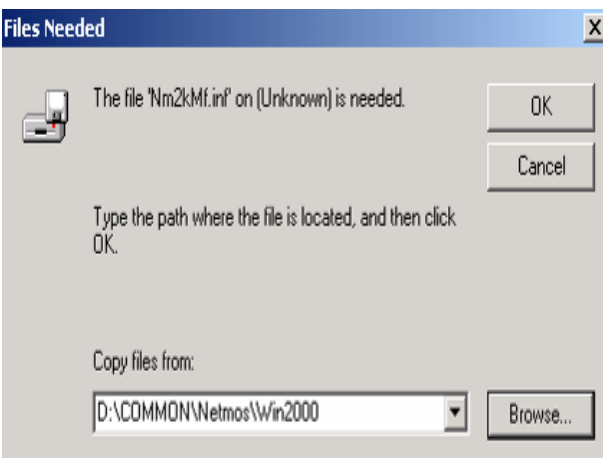
## 5.11. NetMos Driver Installation (For B75)



a. Indicate the location of the Netmos driver.



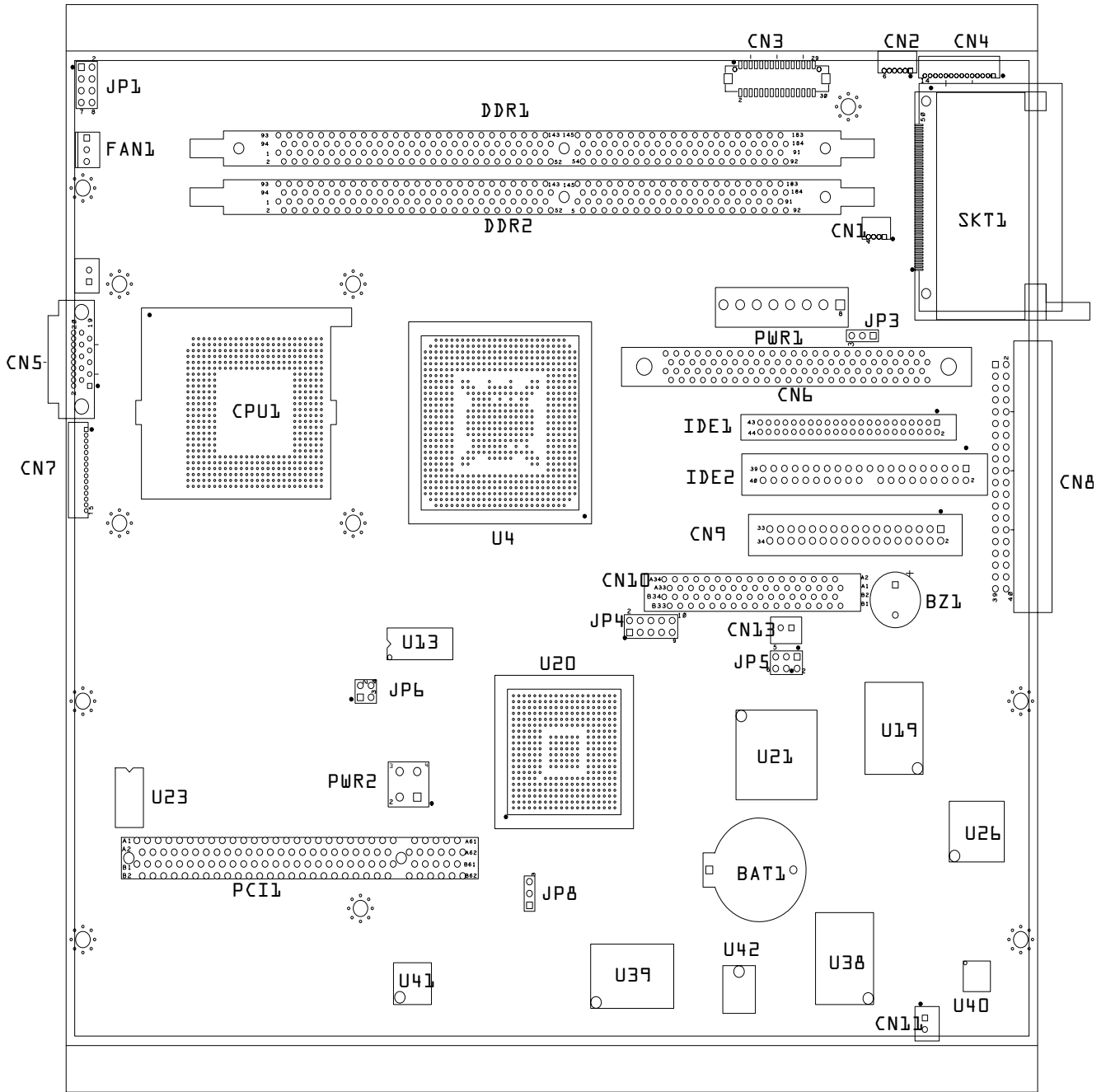
b. Choose "Nm2kMf" in the Locate File window.



c. Click "OK" on the Files Needed window.

# 6. Jumper Settings

## 6.1. B75 Main Board



### 6.1.1. CPU Fan Speed Control Setting

◎Factory Default Setting

Function	JP1 (SHORT)
Full Speed	◎1-2
Middle Speed	3-4
Slow Speed	5-6
System Control	7-8

### 6.1.2. Power Mode Selection

Function	JP3 (SHORT)	JP5 (SHORT)
ATX Mode	1-2	◎1-2
		3-4
		5-6
AT Mode	2-3	1-3
		2-4

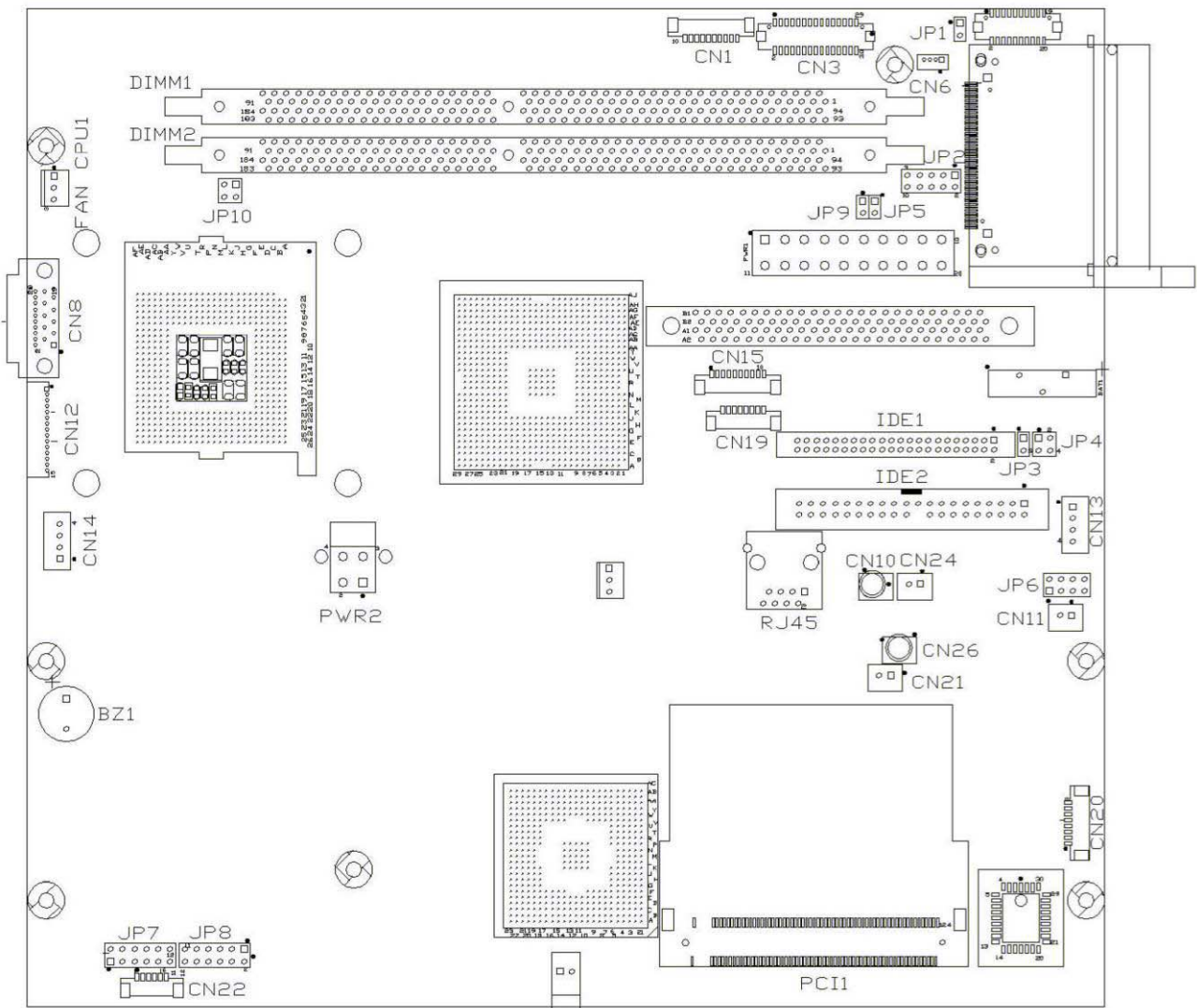
### 6.1.3. Clear CMOS

Function	JP8 (SHORT)
Clear	2-3
Normal	◎1-2

Note:



## 6.2. B77 Main Board



### 6.2.1. Compact Flash Setting

⊙Factory Default Setting

Function	JP1 (SHORT)
Master	⊙1-2
Slave	N/C

### 6.2.2. I-BUTTON Setting

Function	JP4 (SHORT)
Use I-BUTTON	N/C
No I-BUTTON	⊙1-2, 3-4

### 6.2.3. CMOS Operation Mode

Function	JP5 (SHORT)
CMOS Normal	⊙N/C
COMS Reset	1-2

### 6.2.4. Power Mode Setting

Function	JP9 (SHORT)
ATX Power	⊙N/C
AT Power	1-2

### 6.2.5. CPU Frequency Setting

Function	JP10 (SHORT)
FSB400	⊙1-2, 3-4
FSB533	3-4

### 6.2.6. CPU Voltage Setting

CPU TYPE	JP7 (SHORT)	JP8 (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

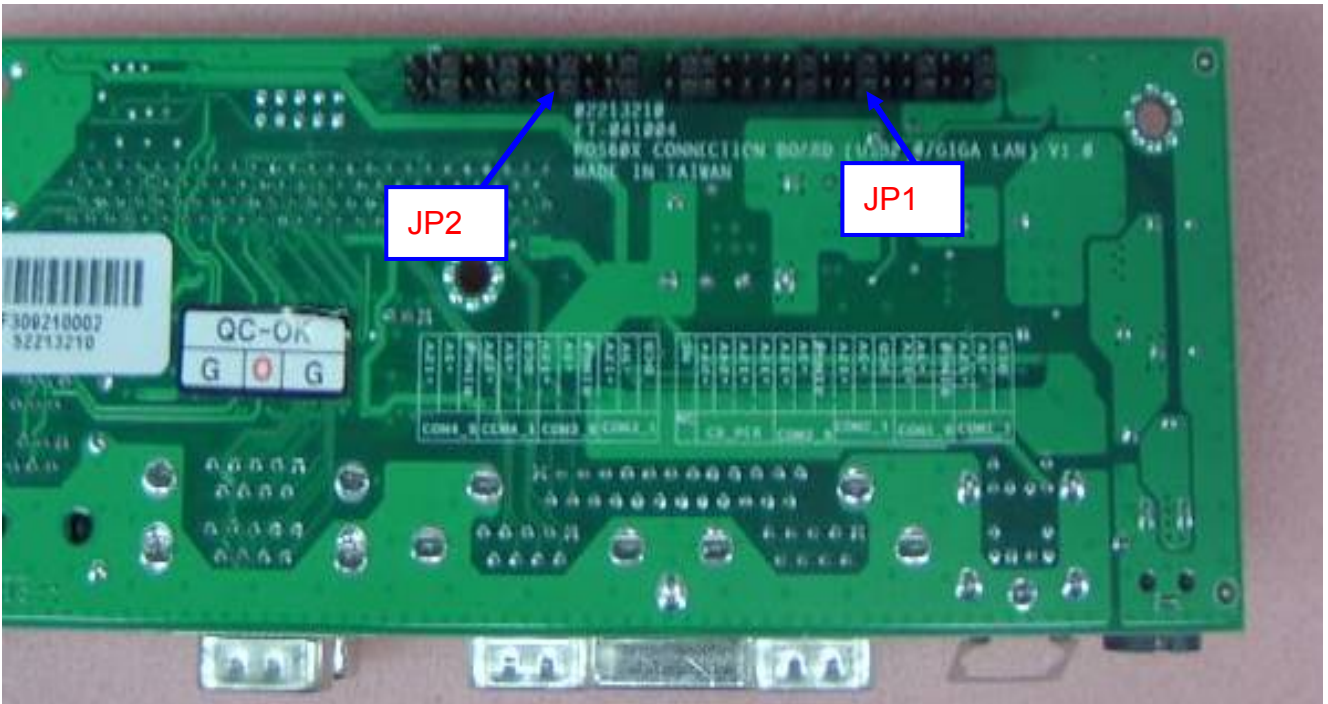
## 6.2.7. LCD ID Setting

Panel Number	Resolution	LVDS		JP6 (SHORT)			
		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

Note:



### 6.3. Connector Jumper Settings



#### 6.3.1. CDR Power Mode Setting

Function	JP1 (SHORT)
NC	⊙1-2
+24V	3-4
+24V	5-6
+12V	7-8
+12V	9-10

#### 6.3.2. COM1 Power Mode Setting

Pin	Function	JP1 (SHORT)
1	⊙DCD	33-34
	+12V	29-30
	+5V	31-32
9	⊙RI	27-28
	+12V	23-24
	+5V	25-26

### 6.3.3. COM2 Power Mode Setting

Pin	Function	JP1 (SHORT)
1	⊙DCD	21-22
	+12V	17-18
	+5V	19-20
9	⊙RI	15-16
	+12V	11-12
	+5V	13-14

### 6.3.4. COM3 Power Mode Setting

Pin	Function	JP2 (SHORT)
1	⊙DCD	23-24
	+12V	19-20
	+5V	21-22
9	⊙RI	17-18
	+12V	13-14
	+5V	15-16

### 6.3.5. COM4 Power Mode Setting

Pin	Function	JP2 (SHORT)
1	⊙DCD	11-12
	+12V	7-8
	+5V	9-10
9	⊙RI	5-6
	+12V	1-2
	+5V	3-4

# 7. 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

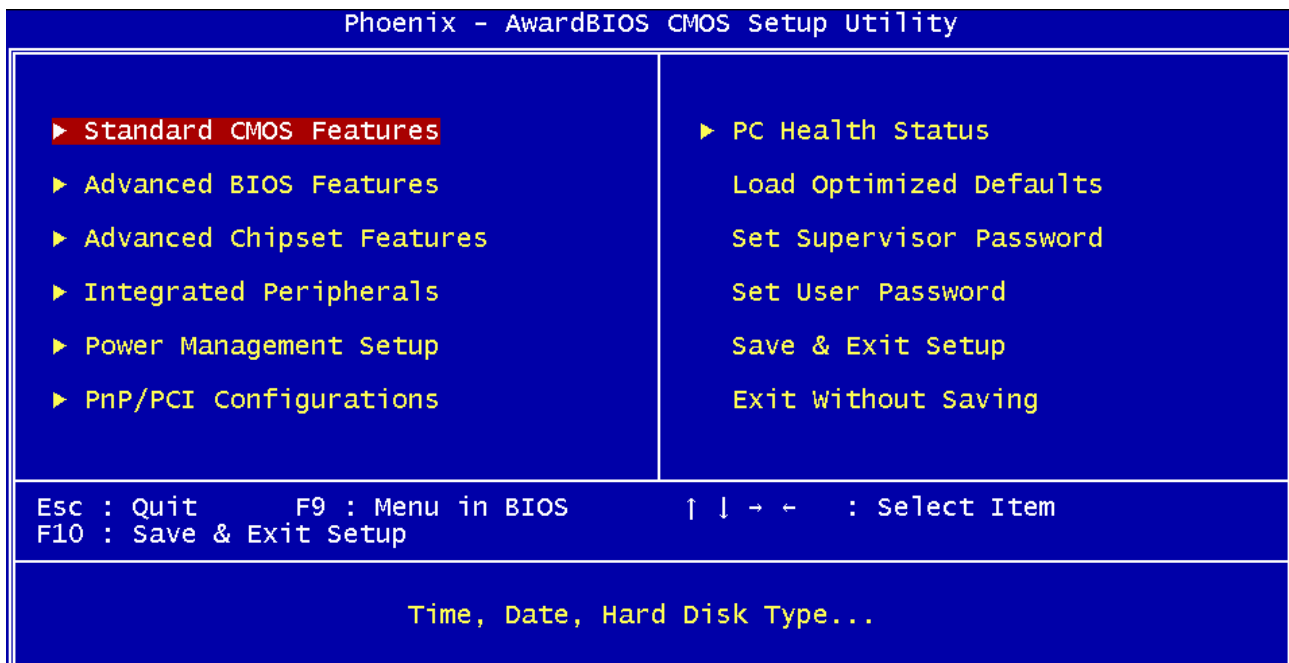
If, after making and saving system changes with the Setup utility, you find that this product no longer boots, start the BIOS setup and execute the following.

***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 B75 / B77 BIOS version. 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.