



# User's Manual

## *EZPOS70 Series*

\*EZPOS70-5B-C1G

\*EZPOS70-5B-C15G

*June 2007*

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# 1


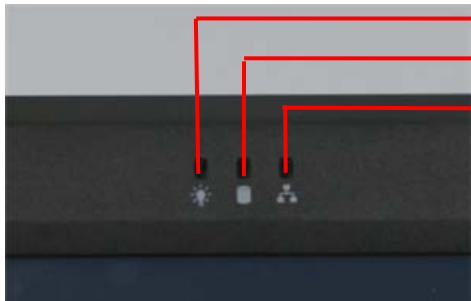
CHAPTER

## Introduction


# Chapter 1 – Introduction

## 1.1 System Overview


### 1.1.1 Front View

	◆ 2 Watt Speakers x 2
	◆ Power LED ◆ HDD LED ◆ LAN LED

### 1.1.2 Side View

	
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### 1.1.3 Rear View

	◆ Thermal Vents of System
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### 1.1.4 Top View

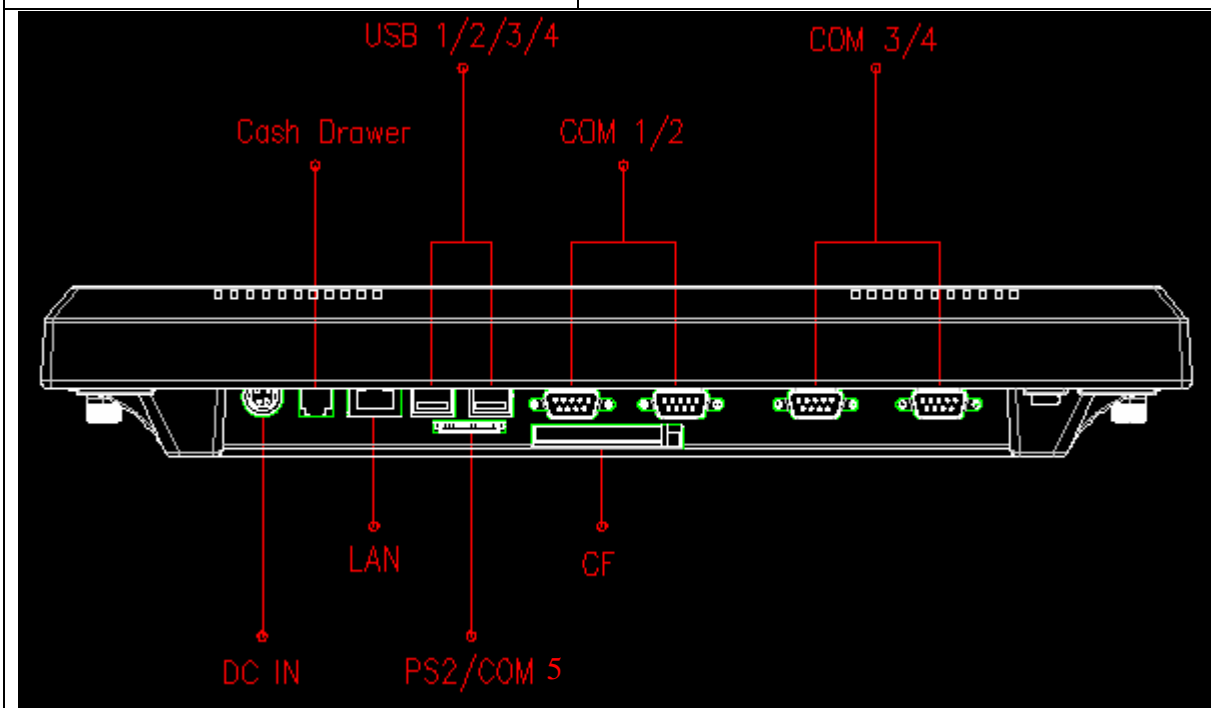


- ◆ Using the thumb screw to assemble panel module and base module .

### 1.1.5 Bottom View



- ◆ I/O Panel .



## 1.2 Specifications



System	
Model	EZPOS715
Celeron® M	EZPOS70-5B-C1G
Main Board	
CPU	Intel® Ultra Low Voltage Celeron® M 1GHz w/o L2 Cache
Core Logic	Intel® 852GM + ICH4
System Memory	SO-DIMM DDR 200/266, 128MB up to 1GB
OS Support	Win2000, Win XP / XPe, Linux, WEPOS, WinCE
Display	
TFT LCD Size	15"
Brightness	250nits
Resolution	1024x768
Touch Screen	5-wire Resistive Type
Storage Device	
HDD	1 x IDE , 2.5" HDD
Compact Flash	1 x Slot Compact Flash Type II
I/O Ports	
Serial	5 x RS-232, 1 x RS-232/422/485 COM1: DB-9, RS-232/422/485, Pin9 w/ RI/5V/12V Selectable by BIOS COM2/3/4: DB-9, RS-232, Pin9 w/ RI/5V/12V Selectable by BIOS COM5: Internal for MSR COM6: Internal for Touch Panel
USB	4 x USB2.0
PS/2 +COM5	1 x internal for MSR, iButton

LAN	1 x Gigabit Ethernet by RJ-45,
Cash Drawer	1 x RJ-11 (Power Pin 12V)
Audio	AC' 97 2.0 Compliant, 2W Speaker * 2
Expansion	1 x Mini PCI
<b>Others</b>	
Power Input	External adapter, 135W, 19VDC input
UPS Power Backup	Optional 4P1S battery backup
Color	Black
Material	Die-casting Aluminum
EMC& Safety Compliance	FCC / CE
Weight (Kgs)	6.5
Dimension L x W x H (mm)	229 x 390 x 412
Operating Temperature	5°C ~ 40°C
Storage Temperature	-20°C ~ 60°C
Storage Humidity	20% - 85% RH, non-condensing

<b>Main Unit Ordering Information</b>	
Part No.	Description
EZPOS70-5B-C1G	Fanless,EZPOS715 w/ 15" TFT LCD, Intel® ULV Celeron® M 1GHz w/o L2 cache CPU
<b>Optional Accessories Ordering Information</b>	
Part No.	Description
A10400596RH	MSR: 3 Tracks, PS/2 Type
A10400597RH	MSR: 3 Tracks, RS-232 Type
A10400628RH	MSR: :2 Tracks, PS/2
A10400595RH	iButton: Dallas Key Reader, PS/2 Type
A10400594RH	MSR: 3 Tracks, PS/2 Type iButton: PS/2 Type
A10400264RH	Customer Display: LCD Pole Display
A10400335RH	Customer Display: VFD Pole Display
20600003RH	Compact Flash: 512MB
20600005RH	Compact Flash: 1GB
20300006RH	DDR400, 256MB, 200Pin SO-DIMM, Non-ECC
20300007RH	DDR400, 512MB, 200Pin SO-DIMM, Non-ECC
20200010RH	HDD: 2.5-inch, 40GB, Ultra ATA/100, 5400RPM
20900001RH	OS: Win XP Professional (English Version)
A10400614RH	WIRELESS LAN 802.11b/g Mini PCI Module w/ Antenna







# Packing List

## Chapter 2 – Packing List

The unit comes securely packaged in a shipping carton. Please contact your dealer if you find that anything is missing or damaged after examining the contents. The shipping carton should contain the following standard items :

### 2.1 Standard Items

	◆ Main Unit .
	◆ Driver CD (Include manual) .
	◆ Power Adapter .
	◆ Power Cord (The picture varies from the area you locate) .



## 2.2 Optional Items

	◆ Customer Display (VFD, LCD Type) .
	◆ Card Reader (MSR) .
	◆ Wireless LAN Module .
	◆ Battery Module .

# Getting Started

# Chapter 3 – Getting Started


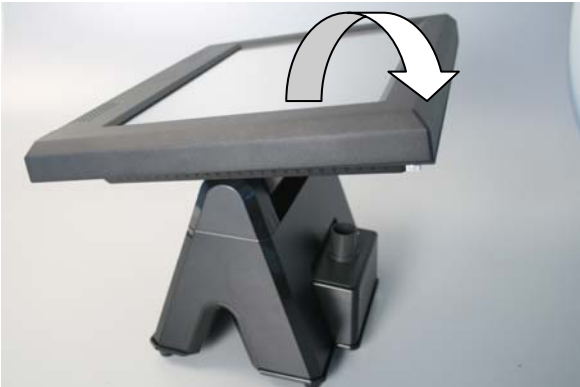

## 3.1 System setup

Item	Photo	Description
1		◆ Plug-in power cord and connect with AC power .
2		◆ Push “Power Button”.

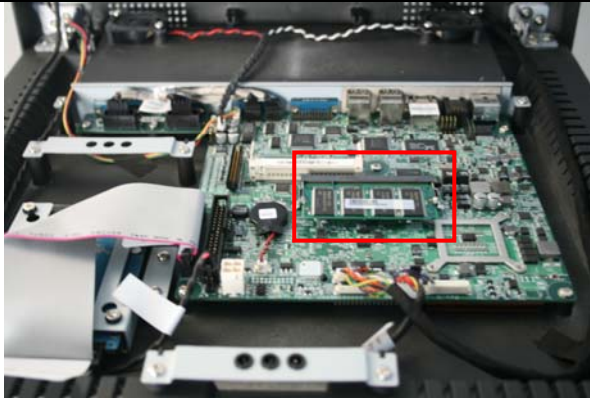
## 3.2 Hardware Installation

### 3.2.1 Memory Installation

The POS system supports memory up to 1 GHz with frequency of DDR266 .  
Please follow the below procedures to install .

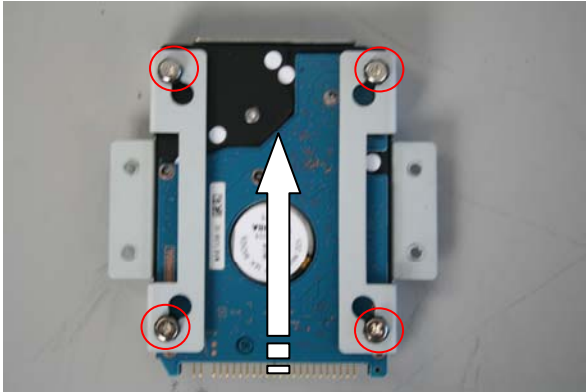
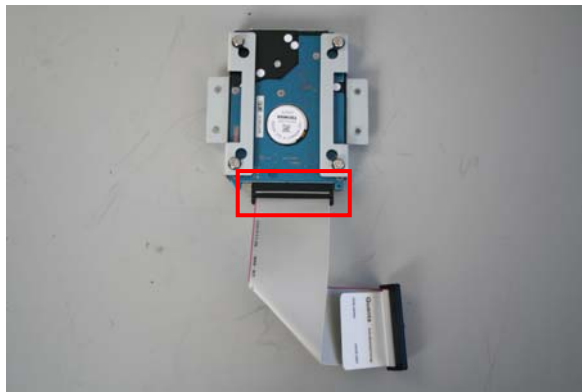

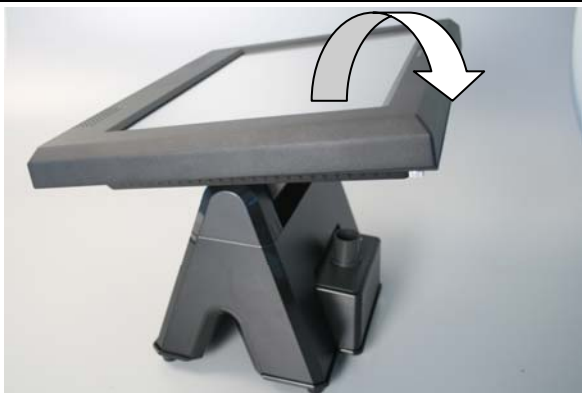
Item	Photo	Description
1		◆ Loosen these 2 thumb screws.
2		◆ Put the panel down as left photo .
3		◆ Open the frame of panel .

4

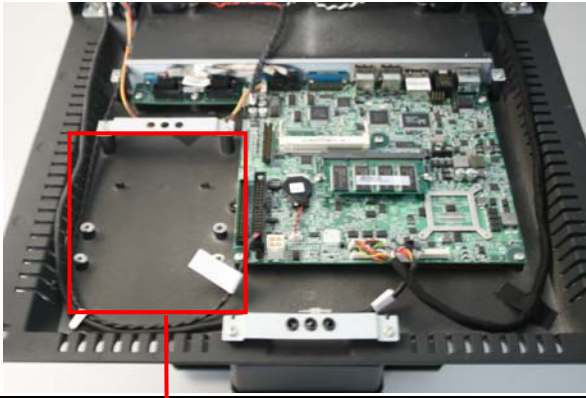
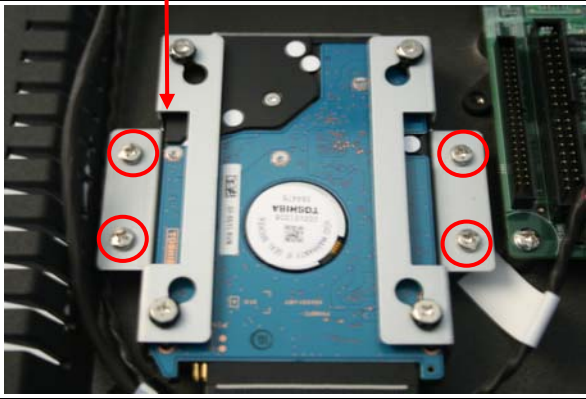
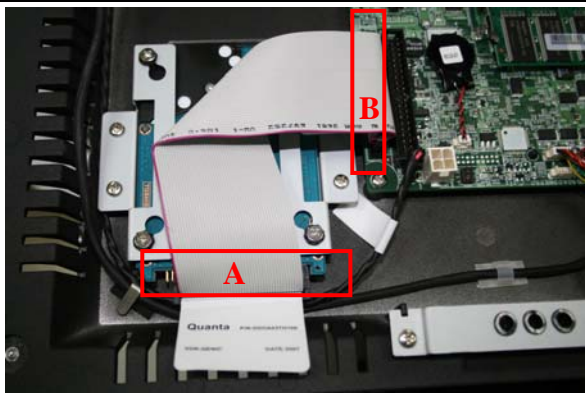


- ◆ Insert the RAM module into the socket .

### 3.2.2 HDD Installation

Item	Photo	Description
1		◆ Slide the HDD into the housing and use 4 screws to fix it on .
2		◆ Connect HDD cable with HDD
3		◆ Loosen these 2 thumb screws.
4		◆ Tilting the panel as left photo .



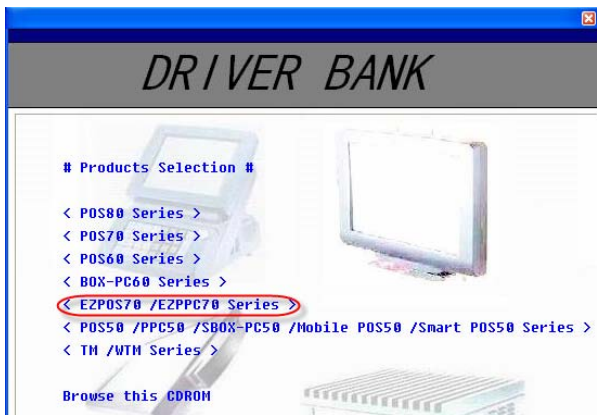

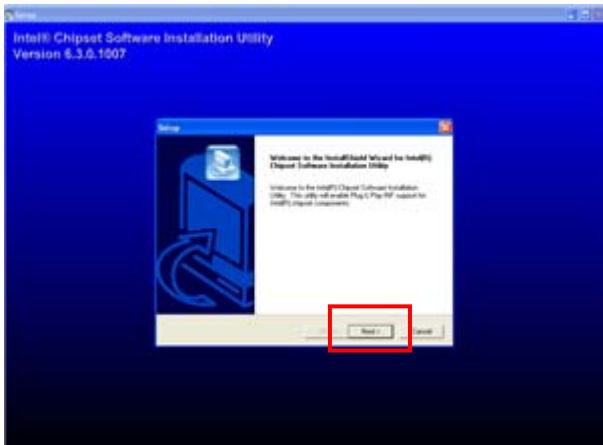
5		<p>◆ Open the frame of panel .</p>
6		<p>◆ Tighten those 4 screws to fix HDD on the housing of rear panel .</p>
7		<p>◆ Connect the HDD cable from Point "A" to Point "B" .</p>

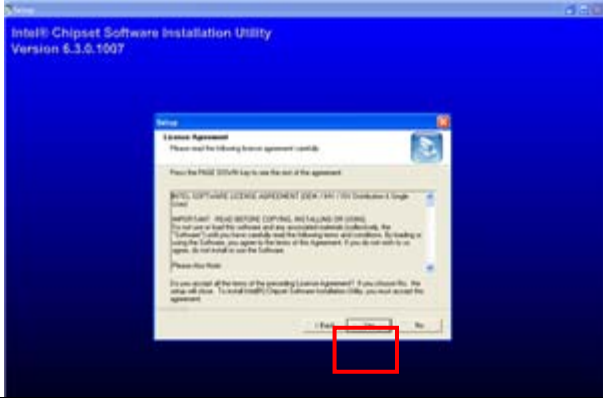
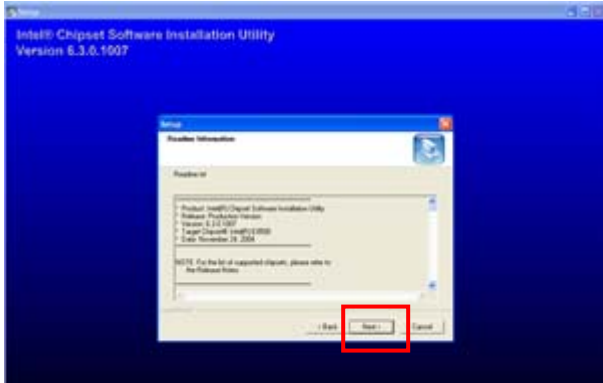
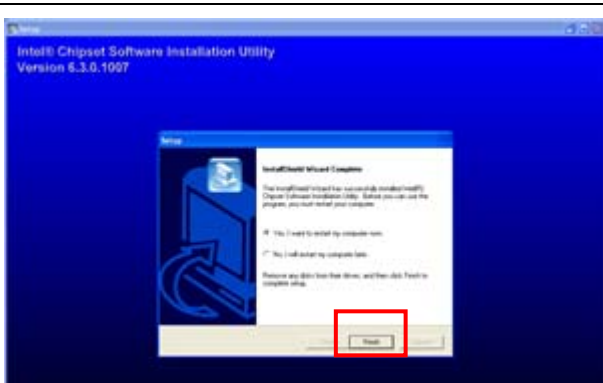
### 3.2.3 OS Installation

- Please prepare a USB CD-ROM .
- Plug a USB CD-ROM into the USB port of POS system .
- Turn on the system and enter CMOS configuration page
- Set the boot up device as USB CD-ROM
- Reboot the system
- Install OS step by step

## 3.3 Driver Installation for Windows 2K/XP


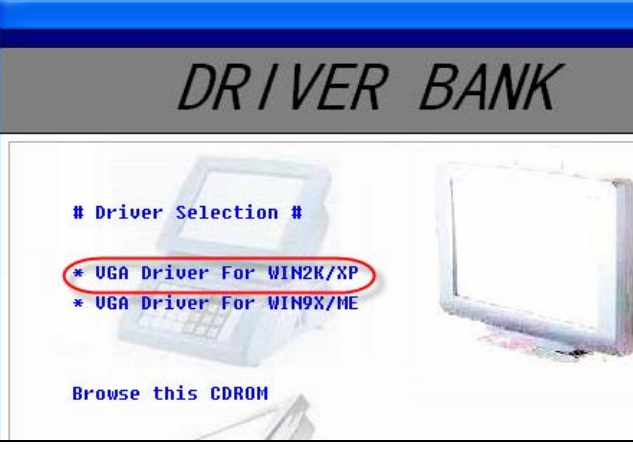
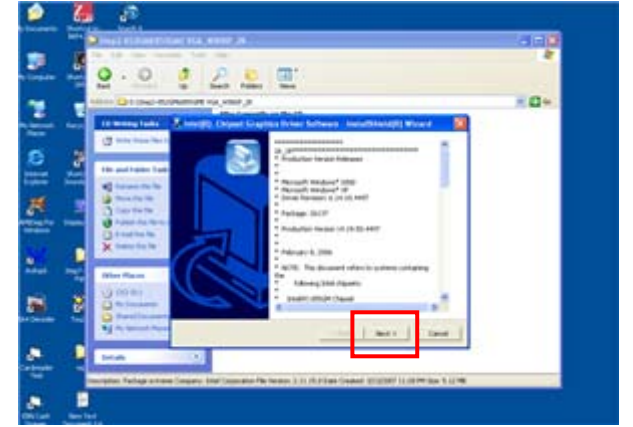
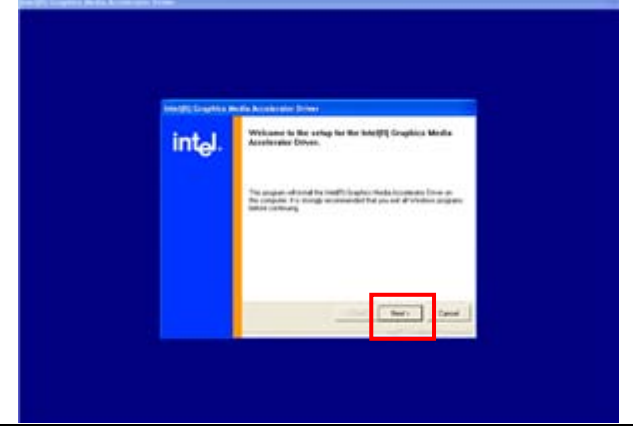
### 3.3.1 Driver of chipset Installation

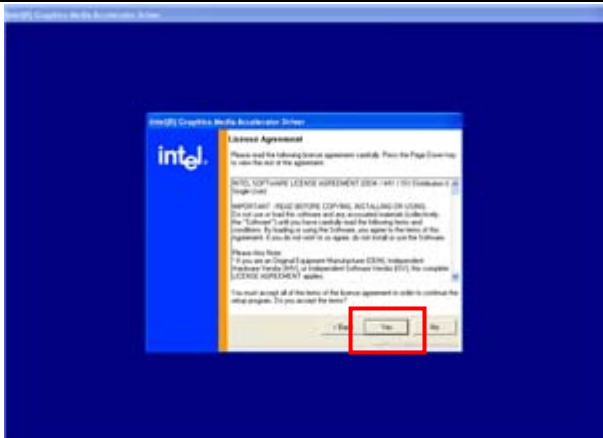
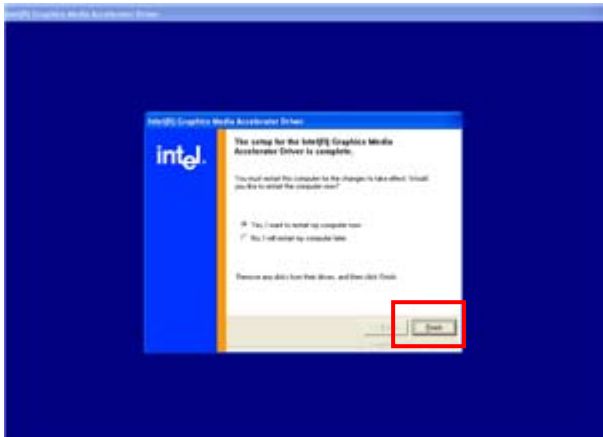
Item	Photo	Description
1		<ul style="list-style-type: none"> <li>◆ Please put the driver CD on the CDROM.</li> <li>◆ Click on the icon “ my computer” .</li> <li>◆ Click on the “EZPOS70/EZPPC70 Series”</li> </ul>
2		<ul style="list-style-type: none"> <li>◆ Please click on the icon “ INTEL Chipset Driver” .</li> </ul>
3		<ul style="list-style-type: none"> <li>◆ Please press the button “ Next” .</li> </ul>

Item	Photo	Description
4		◆ Please press the button “ Yes “ .
5		◆ Please press the button “Next” .
6		◆ Please press the button “ Finish “ .



### 3.3.2 Driver of VGA Installation

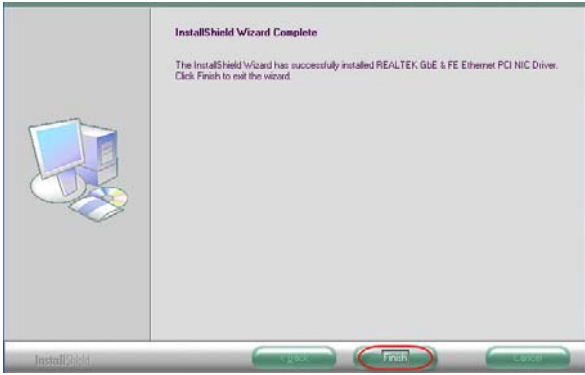
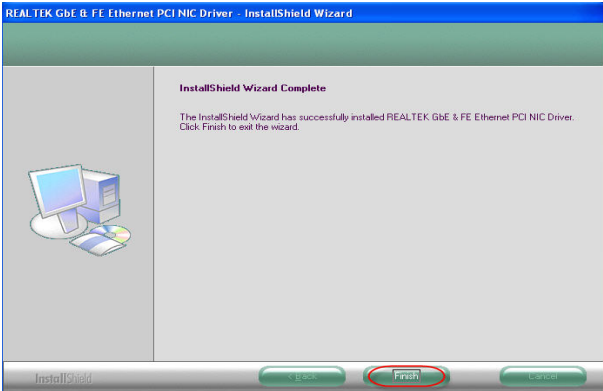
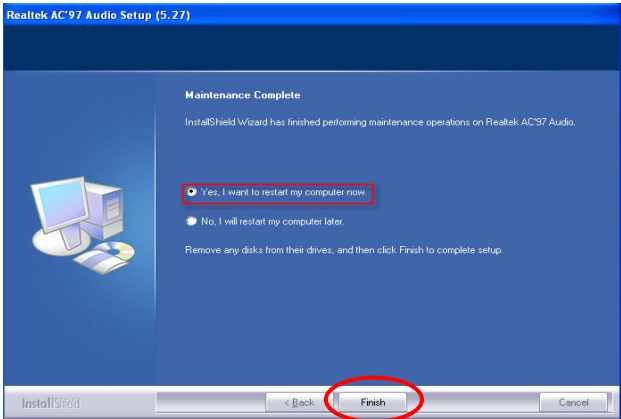
Item	Photo	Description
1		<ul style="list-style-type: none"> <li>◆ Please put the driver CD on the CDROM.</li> <li>◆ Click on the icon “ my computer” .</li> <li>◆ Click on the “EZPOS70/EZPPC70 Series”</li> </ul>

Item	Photo	Description
2		<p>◆ Please click on the icon “Graphics Driver” .</p>
3		<p>◆ Please click on the icon “VGA Driver For WIN2K/XP” .</p>
4		<p>◆ Please press the button “Next” .</p>
5		<p>◆ Please press the button “Next”.</p>


6		◆ Please press the button “Yes”.
7		◆ Please press the button “Finish”.

### 3.3.3 Driver of LAN Installation


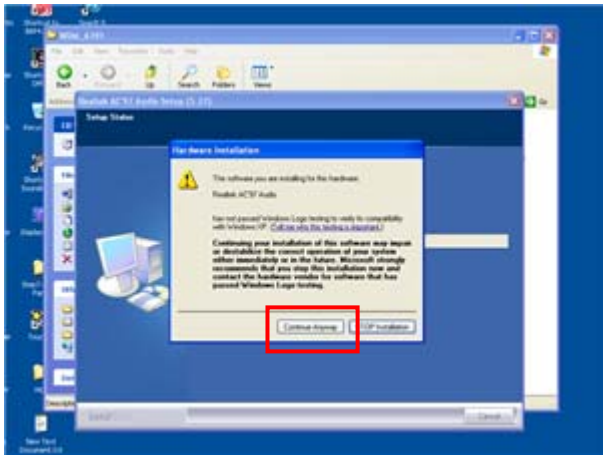
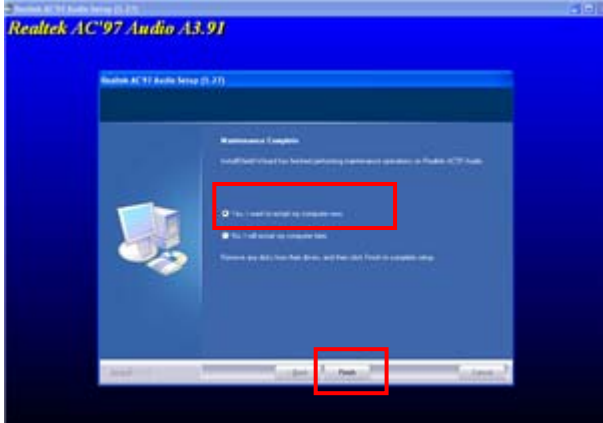
Item	Photo	Description
1		<ul style="list-style-type: none"> <li>◆ Please put the driver CD on the CDROM.</li> <li>◆ Click on the icon “my computer”.</li> <li>◆ Click on the “EZPOS70/EZPPC70 Series”</li> </ul>
2		<ul style="list-style-type: none"> <li>◆ Please click on the icon “RTL8110 LAN Driver”.</li> </ul>

Item	Photo	Description
3		1. Click “Install”
4		1. Click “Finish”
5		1. Click “Yes, I want to restart my computer now” 2. Click “Finish”

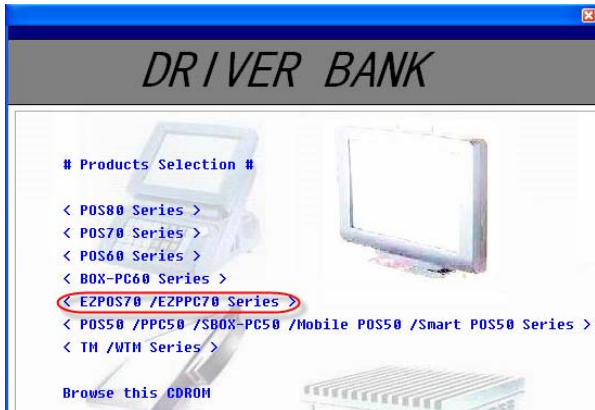

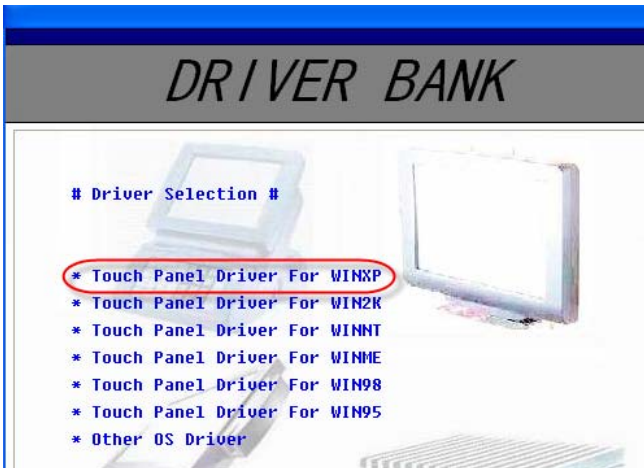
### 3.3.4 Driver of AUDIO Installation

Item	Photo	Description
1		<ul style="list-style-type: none"> <li>◆ Please put the driver CD on the CDROM.</li> <li>◆ Click on the icon “ my computer” .</li> <li>◆ Click on the “EZPOS70/EZPPC70 Series”</li> </ul>

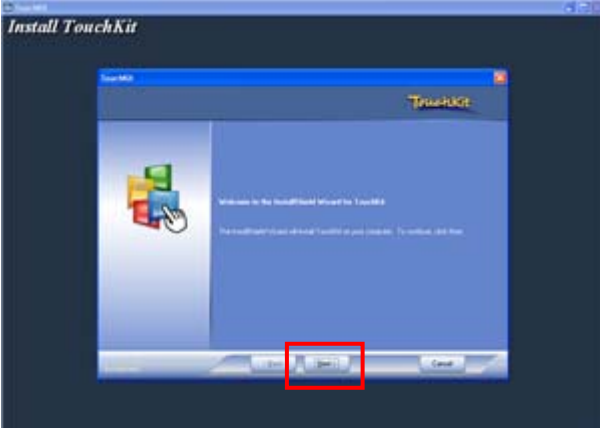
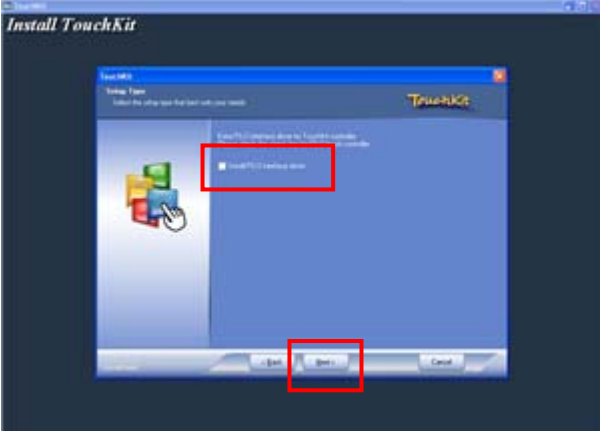
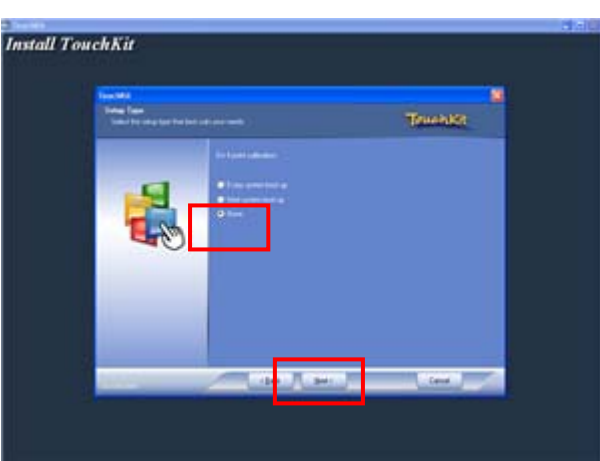



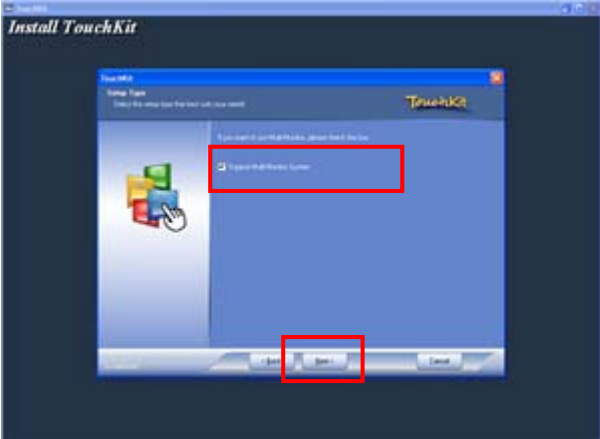
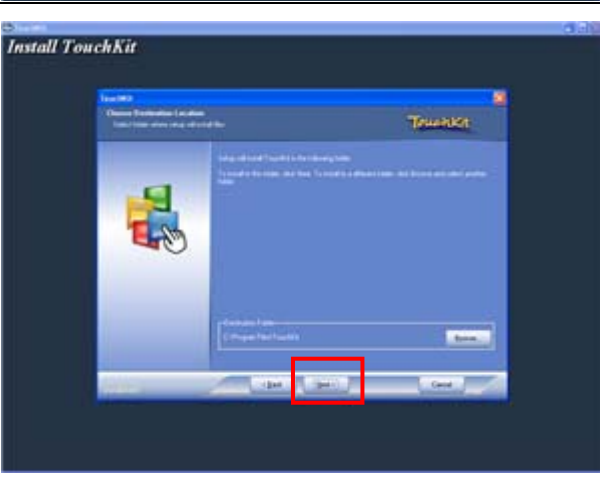
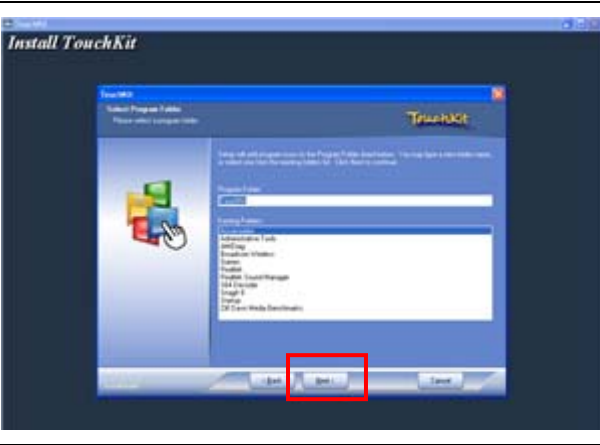
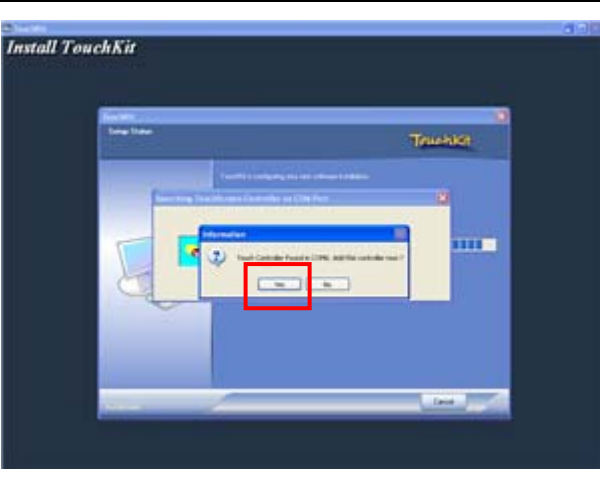
Item	Photo	Description
2		<p>◆ Please click on the icon “AC' 97 Audio Driver”.</p>
3		<p>◆ Please press the button “continue Anyway”.</p>
4		<p>◆ Please select the item “Yes,I want to restart my computer now .” and press the button “ Finish”.</p>

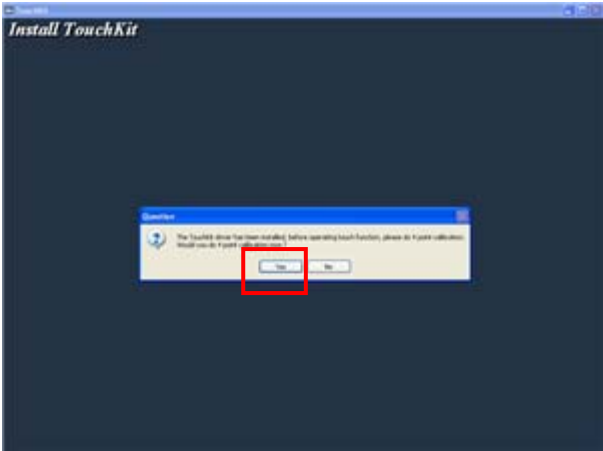

### 3.3.5 Driver of Touch Panel Installation

Item	Photo	Description
1	 <p>The screenshot shows the 'DRIVER BANK' window with a list of product series. The 'EZPOS70 /EZPPC70 Series' is highlighted with a red circle. Other series listed include POS80, POS70, POS60, BOX-PC60, POS50 /PPC50 /SBOX-PC50 /Mobile POS50 /Smart POS50, and TH /WM Series.</p>	<ul style="list-style-type: none"> <li>◆ Please put the driver CD on the CDROM.</li> <li>◆ Click on the icon “ my computer” .</li> <li>◆ Click on the “EZPOS70/EZPPC70 Series”</li> </ul>
2	 <p>The screenshot shows the 'DRIVER BANK' window with a list of drivers. The 'Touch Driver' is highlighted with a red circle. Other drivers listed include INTEL Chipset Driver, Graphics Driver, RTL8110 Lan Driver, AC'97 Audio Driver, Wireless Lan Driver, and Smart Card Reader Driver.</p>	<ul style="list-style-type: none"> <li>◆ Please click on the icon “ TouchPanel ”.</li> </ul>
3	 <p>The screenshot shows the 'DRIVER BANK' window with a list of drivers for different operating systems. The 'Touch Panel Driver For WINXP' is highlighted with a red circle. Other options include Touch Panel Driver For WIN2K, WINNT, WINME, WIN98, WIN95, and Other OS Driver.</p>	<ul style="list-style-type: none"> <li>◆ Please click on the icon “ Touch Panel Driver for WinXP” .</li> </ul>



4		<ul style="list-style-type: none"> <li>◆ Please press the button “Next”.</li> </ul>
5		<ul style="list-style-type: none"> <li>◆ Please DO NOT check the check box .</li> <li>◆ Please press the button “ Next “ .</li> </ul>
6		<ul style="list-style-type: none"> <li>◆ Please select the item “ None “ .</li> <li>◆ Please press the button “ Next “ .</li> </ul>
7		<ul style="list-style-type: none"> <li>◆ Please press the button “OK”.</li> </ul>




8		<p>◆ Please check the check box and press the button “Next” .</p>
9		<p>◆ Please press the button “ Next “ .</p>
10		<p>◆ Please press the button “ Next “ .</p>
11		<p>◆ Please press the button “ Yes “ .</p>

12		<p>◆ Please press the button “ Yes “ .</p>
13		<p>◆ Pless press the mark “ X “ on 4 cornors .</p>

## 3.4 Optional Items Installation

### 3.4.1 MSR / iButton




#### Install hardware




Item	Photo	Description
1		◆ Put the POS Terminal down .
2		<ul style="list-style-type: none"><li>◆ Tighten these 2 thumb screws to fix MSR/iButton module on the system .</li><li>◆ Connect the MSR's/iButton's cable to the connector (Mark Red)</li></ul>
3		◆ Completed .

### 3.4.2 Pole Display

The unit comes securely packaged in a shipping carton. Please contact your dealer if you find that anything is missing or damaged after examining the contents. The shipping carton should contain the following standard items :





#### 3.4.2.1 Packing Item List

Item	Photo	Description
1		◆ Display Module
2		◆ Long Pole
3		◆ Short Pole




4		◆ RS-232C Cable
5		◆ Base Housing
6		◆ User's Manual

### 3.4.2.1 Install Customer Display

Item	Photo	Description
1		<ul style="list-style-type: none"> <li>◆ Put the POS Terminal down .</li> <li>◆ Remove 2 screws and take the cover(  ) out .</li> </ul>
2		<ul style="list-style-type: none"> <li>◆ Loosen the screw (item 1) and remove item 2 and 3 .</li> </ul>
3		<ul style="list-style-type: none"> <li>◆ Let RS-232C cable go through the hole of base housing and short pole .</li> </ul>
4		<ul style="list-style-type: none"> <li>◆ Let RS-232C cable go through long pole .</li> </ul>

5		<ul style="list-style-type: none"> <li>◆ Let RS-232C cable go through Neck .</li> </ul>
6		<ul style="list-style-type: none"> <li>◆ Connect the RS232C cable to the RJ45 connector .</li> <li>◆ Connect the pole with display module .</li> </ul>
7		<ul style="list-style-type: none"> <li>◆ Let RS232C cable go through the hole .</li> </ul>
8		<ul style="list-style-type: none"> <li>◆ Let RS232C cable go through the hole .</li> </ul>




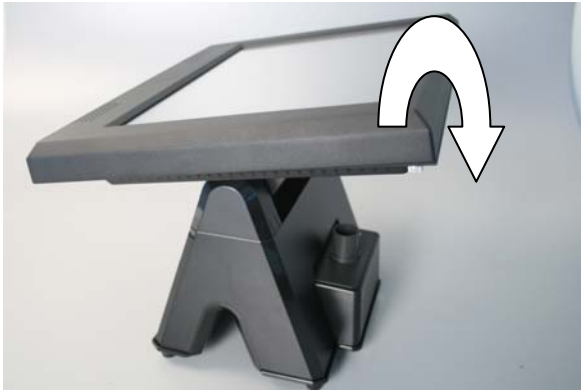

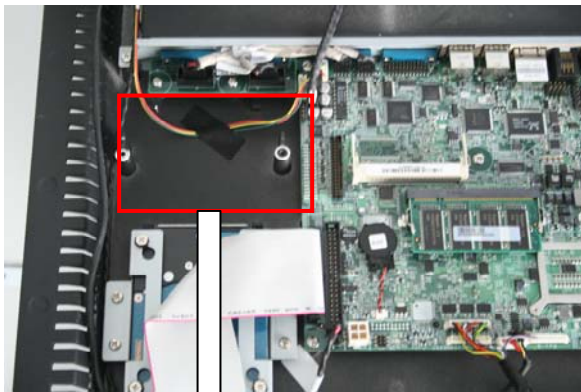
9		<p>◆ Connect the RS232C cable to COM1 .</p>
10		<p>◆ Tighten 2 screws to fix customer display .</p>
11		<p>◆ Completed</p>



**Note:**

Be sure to adjust BIOS setting of COM1 to supply 12V power.

For more information, please refer to **chapter 4.1.2**


### 3.4.3 Battery Module


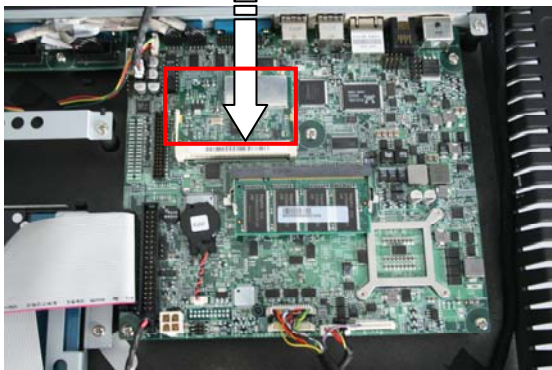
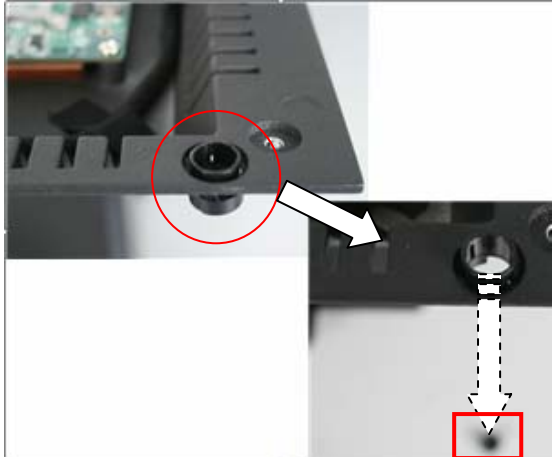
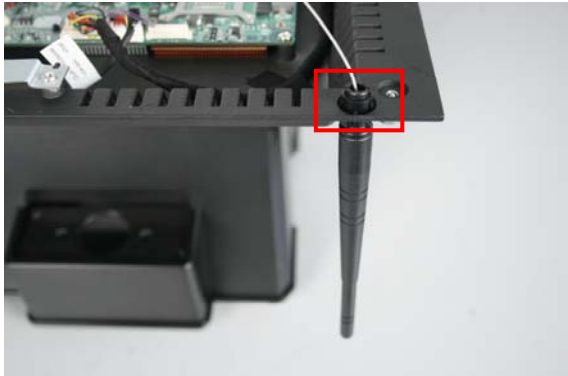
Item	Photo	Description
1		<ul style="list-style-type: none"> <li>◆ Loosen these 2 thumb screws.</li> </ul>
2		<ul style="list-style-type: none"> <li>◆ Tilting the panel as left photo .</li> </ul>
3	 	<ul style="list-style-type: none"> <li>◆ Open the frame of panel .</li> <li>◆ Remove these 2 screws and take the metal sheet out.</li> <li>◆ Put the Battery Module on the location (Mark Red) .</li> <li>◆ Put the metal sheet on the battery and screw up .</li> </ul>



		
4		<p>◆ Connect the battery's cable to the connector (Mark Red) and keep empty hole on the upper-right side .</p>

### 3.4.4 Wireless Lan Module

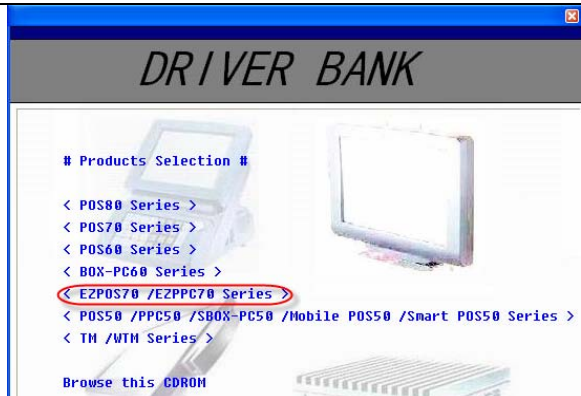

#### 3.4.4.1 Hardware installation

Item	Photo	Description
1		<p>◆ Loosen these 2 thumb screws.</p>

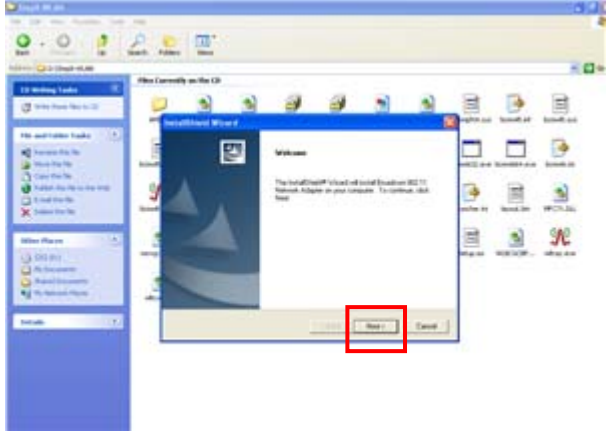
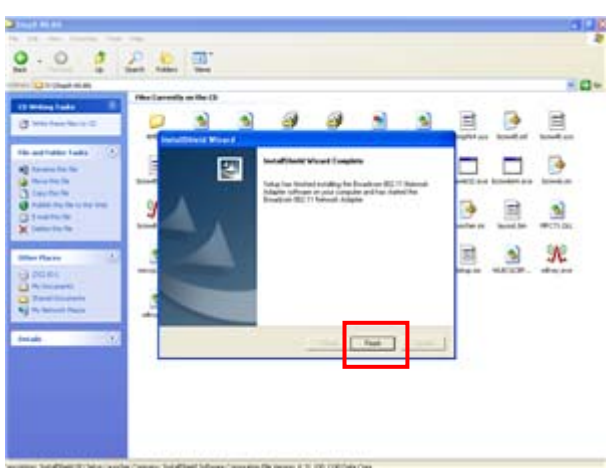
2		◆ Tilting the panel as left photo .
3		◆ Open the frame of panel . ◆ Insert the MiniPCI wireless LAN module into the socket .
4		◆ Take the antenna cover away .
5		◆ Insert the antenna into the plastic holder .

6		<ul style="list-style-type: none"> <li>◆ Connect the antenna cable to the connector of MiniPCI Wireless LAN Module .</li> <li>◆ Close the frame of panel and tighten 2 thumb screws .</li> </ul>
7		<ul style="list-style-type: none"> <li>◆ Completed</li> </ul>

### 3.4.4.2 Driver installation

Item	Photo	Description
1		<ul style="list-style-type: none"> <li>◆ Please put the driver CD on the CDROM.</li> <li>◆ Click on the icon “ my computer” .</li> <li>◆ Click on the “EZPOS70/EZPPC70 Series”</li> </ul>
2		<ul style="list-style-type: none"> <li>◆ Please click on the icon “ Wireless Lan Driver” .</li> </ul>



3		◆ Please press the button “ Next”.
4		◆ Please press the button “ Finish “.

### **3.4.5 Cash Drawer**

#### **3.4.5.1 Control code**

Cash drawer : OPEN

Port address : 280H( bit 4 )

Value : 10H

Cash drawer : CLOSE

Port address : 280H( bit 4 )

Value : 00H

Cash drawer : READ

Value : 281H( bit 0 )

# BIOS setup

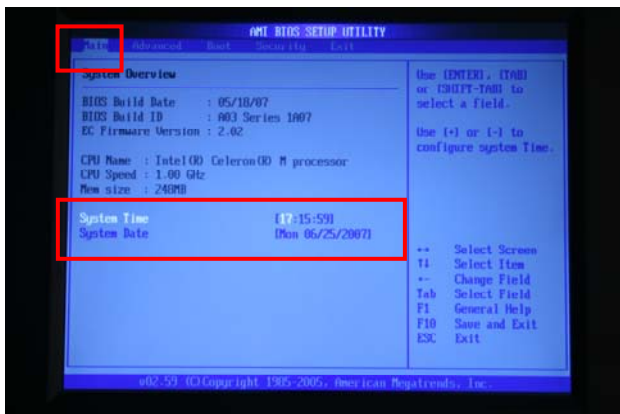


# Chapter 4 – BIOS setup

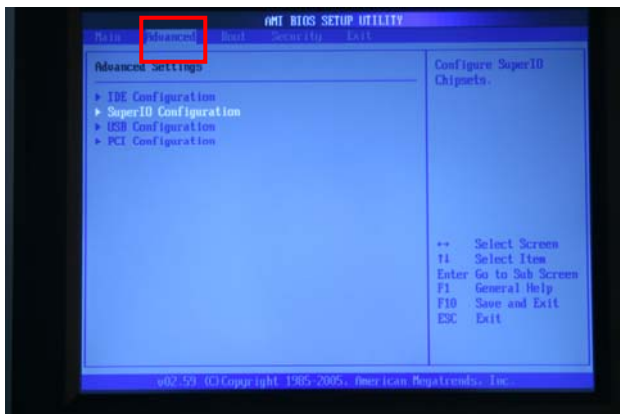
## 4.1 Starting Setup


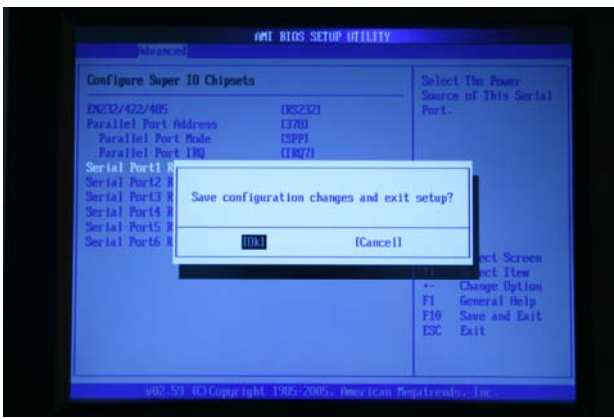
To enter BIOS, please click on the “Delete Button” of keyboard when booting up the POS system .

### 4.1.1 Setup for Main function

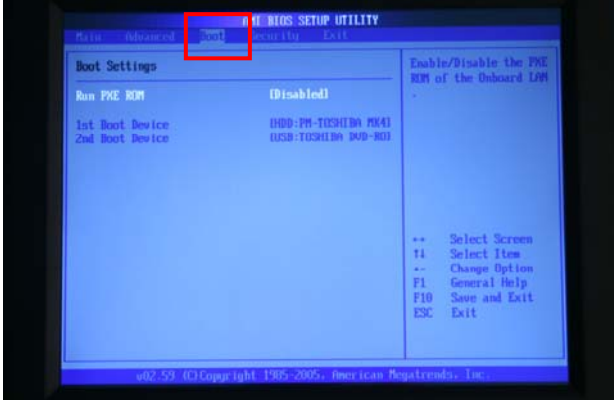
Item	Photo	Description
1		<ul style="list-style-type: none"> <li>◆ Please use keyboard to select the item “ Main “.</li> <li>◆ Please follow the commands which on the lower-right corner of screen to change system time or date .</li> </ul>

### 4.1.2 Setup for configuration of serial ports

Item	Photo	Description
1		<ul style="list-style-type: none"> <li>◆ Please use keyboard to select the item “ advanced “.</li> <li>◆ Select the item “ Super I/O configurations “.</li> </ul>

2		<ul style="list-style-type: none"> <li>◆ Select a COM port which you want to set and press enter.</li> <li>◆ Select a configuration and press enter .</li> </ul>
3		<ul style="list-style-type: none"> <li>◆ Press F10 and enter to save the change and exit BIOS setting .</li> </ul>

### 4.1.3 Setup for Boot function

Item	Photo	Description
1		<ul style="list-style-type: none"> <li>◆ Please use keyboard to select the item “ boot “.</li> <li>◆ Please follow the commands which on the lower-right corner of screen to change boot setting .</li> </ul>

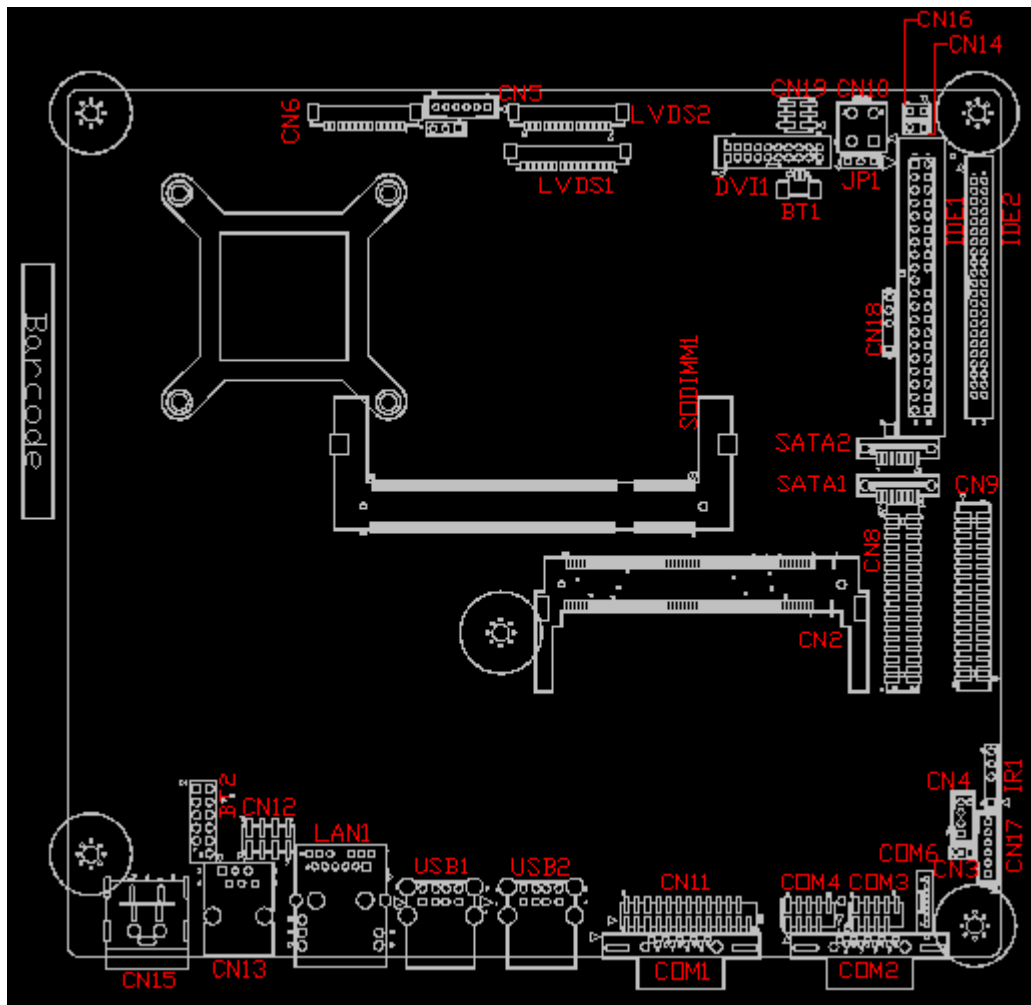
#### 4.1.4 Setup for Exit function

Item	Photo	Description
1		<ul style="list-style-type: none"> <li>◆ Please use keyboard to select the item “ Exit “</li> <li>◆ Please follow the commands which on the lower-right corner of screen to change exit options .</li> </ul>

# M/B Information

# Chapter 5 – M/B Information

## 5.1 Locations of Jumpers and Connectors



## 5.2 Jumper Setting

FAN1 : CPU FAN	
Pin No.	Description
1	GND
2	+12V
3	Sense Pulse

COM1 /2 : COM Connector			
Pin No.	Description	Pin No.	Description
COM PORT			
1	DCD	6	DSR
2	RXD	7	RTS
3	TXD	8	CTS
4	DTR	9	RI / 12V / 5V
5	GND		

COM3 /4 : COM Connector			
Pin No.	Description	Pin No.	Description
1	DSR	2	DCD
3	RTS	4	RXD
5	CTS	6	TXD
7	RI / 5V /12V	8	DTR
9	NC	10	GND

COM5 : COM Connector	
Pin No.	Description
1	GND
2	5V
3	RXD
4	TXD
5	PC_DAT (KEYBOARD)
6	PC_CLK )KEYBOARD)
7	KB_DAT
8	KB_CLK
9	RI / 5V /12V
10	DTR
11	CTS
12	RTS
13	DSR
14	DCD
15	KB_EN

COM6 : COM Connector	
Pin No.	Description
1	DCD
2	RXD
3	TXD
4	DTR
5	DSR
6	RTS
7	CTS
8	RI / 5V / 12V

CN3 : MIC Connector			
Pin No.	Description	Pin No.	Description
1	MIC	2	GND

CN4 : LINE_OUT Connector	
Pin No.	Description
1	OUT_R
2	GND
3	GND
4	OUT_L

CN5 : LVDS Connector	
Pin No.	Description
1	12V
2	12V
3	BKLTCTL
4	BKLTEN
5	GND
6	GND

CN6 : LVDS Connector	
Pin No.	Description
1	LCD_VCC
2	LCD_VCC
3	LVC_VCC
4	5V
5	5V
6	5V
7	12V
8	12V
9	12V
10	LVDS_EN
11	BKLTEN
12	HDD_LED
13	LAN_LED

CN11 : Parallel Connector			
Pin No.	Description	Pin No.	Description
1	#STROBE	14	#AFD
2	DATA0	15	#ERROR
3	DATA1	16	#INIT
4	DATA2	17	#SLIN
5	DATA3	18	GND
6	DATA4	19	GND
7	DATA5	20	GND
8	DATA6	21	GND
9	DATA7	22	GND
10	#ACK	23	GND
11	BUSY	24	GND
12	PE	25	GND
13	SELECT	26	N.C



CN18 : USB Connector	
Pin No.	Description
1	GND
2	NC
3	P0
4	N0
5	5V

IR1 : IrDA Connector	
Pin No.	Description
1	+5V
2	NC
3	IRRX
4	GND
5	IRTX

JP1:Clear CMOS	
Pin No.	Function
1-2	NORMAL
2-3	Clear CMOS

JP2:LCD Power	
Pin No.	Function
1-2	5V
2-3	3.3V

DVI1 : DVI Connector			
Pin No.	Description	Pin No.	Description
1	TXP1	2	TXN1
3	GND	4	GND
5	TXCP	6	TXCN
7	GND	8	5V
9	HTPLG	10	5V
11	TXP2	12	TXN2
13	GND	14	GND
15	TXP0	16	TXN0
17	NC	18	NC
19	DCDAT	20	DCCLK

LVDS1 : LVDS Connector	
Pin No.	Description
1	GND
2	N0
3	P0
4	GND
5	N1
6	P1
7	GND
8	N2
9	P2
10	GND
11	CLK_N
12	CLK_P
13	GND
14	N3
15	P3

LVDS2 : LVDS Connector	
Pin No.	Description
1	LCD_VCC
2	LCD_VCC
3	UCP
4	UCN
5	GND
6	UP3
7	UN3
8	UP2
9	UN2
10	GND
11	UP1
12	UN1
13	UP0
14	UN0

# Reversion

## Chapter 6 – Reversion History

Version	Item	Descriptions	Page
1.1	1	Add one picture showing where to connect HDD cable to MB .	17
	2	Add one picture showing whewe to put screws to fix the VFD .	36
	3	Add one picture showing locations of jumpers and connectors .	48
	4	Add Cash Drawer's control method .	42
1.2	1	Replace picture to install chipset	19
	2	Replace picture to install VGA	21
	3	Replace picture to install LAN	23
	4	Replace picture to install Audio	24
	5	Replace picture to install Touch Panel	
1.3	1	WIRELESS LAN 11g change to WIRELESS LAN 802.11b/g	8
	2	WIRELESS MODULE change to WIRELESS LAN MODULE	11
	3	Remove item 3 and items followed	19
	4	WIN2000_XP change to Touch Driver For WINXP	26
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