User's Manual
EZPPC70-2B-C1G
EZPOS70-2B-C1G

Copyrights

©2008 EBN Technology Corp. All rights reserved. The information in this document is subject to change without prior notice in order to improve reliability, design and function and does not represent a commitment on the part of the manufacturer.

This document contains proprietary information protected by copyright.   All rights are reserved.   No part of this manual may be reproduced by any mechanical, electronic, or other means in any form without prior written permission of the manufacturer.

All trademarks are property of their respective owners

Liability Disclaimer

In no event will the manufacturer be liable for direct, indirect, special, incidental, or consequential damages arising out of the use or inability to use the product or documentation, even if advised of the possibility of such damages.

Regulatory Information

FCC Notices

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Increase the separation between the equipment and the receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio or television technician for help.

This device complies with Part 15 (A) of the FCC Rules. Operation is subject to the following two conditions:

1) this device may not cause harmful interference and

2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS DEVICE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE DEVICE.

CE Notice

This device complies with **EMC Directive 2004/108/EC** issued by the Commission of the European Community.

WEEE Notice

The **WEEE** mark applies only to countries within the European Union (EU) and Norway.
This appliance is labeled in accordance with **European Directive 2002/96/EC** concerning **waste electrical and electronic equipment** (**WEEE**). The Directive determines the framework for the return and recycling of used appliances as applicable throughout the European Union. This label is applied to various products to indicate that the product is not to be thrown away, but rather reclaimed upon end of life per this Directive.

Contents

Contents

Contents

1.

Features

- Intel® low power consumption and high performance technology
- Durable ultra-slim & robust die-casting aluminum chassis
- 4 x USB 2.0, 4 x RS-232, Gigabit Ethernet port (RJ-45), cash drawer port (RJ-11) and 1 X parallel port equipped
- Video Module (Optional)
- Wireless LAN supported
- Microsoft Windows series operation system (Windows XP Home Edition, Windows XP Professional Edition and WEPOS) and open-source Linux operation system supported.

2.

Unpacking the Box

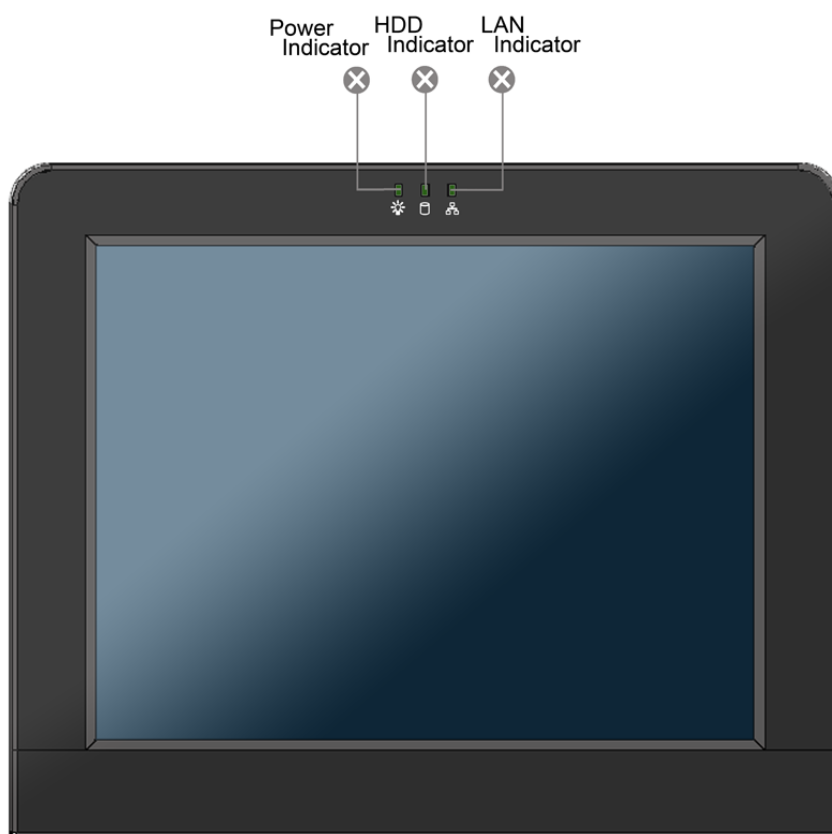Verify that the box contains the following items.

1	Device X 1
2	Wall mount Kit x 1 (EZPPC series only)
3	Power Adaptor X 1
4	Power Cord X 1
5	Driver and utility CD X 1
6	Base Unit (EZPOS series only)
7	D-Sub 9 cable

Hardware Setup

3.1. Quick Tour

Front View

Power Indicator   HDD Indicator   LAN Indicator

LED Indicator

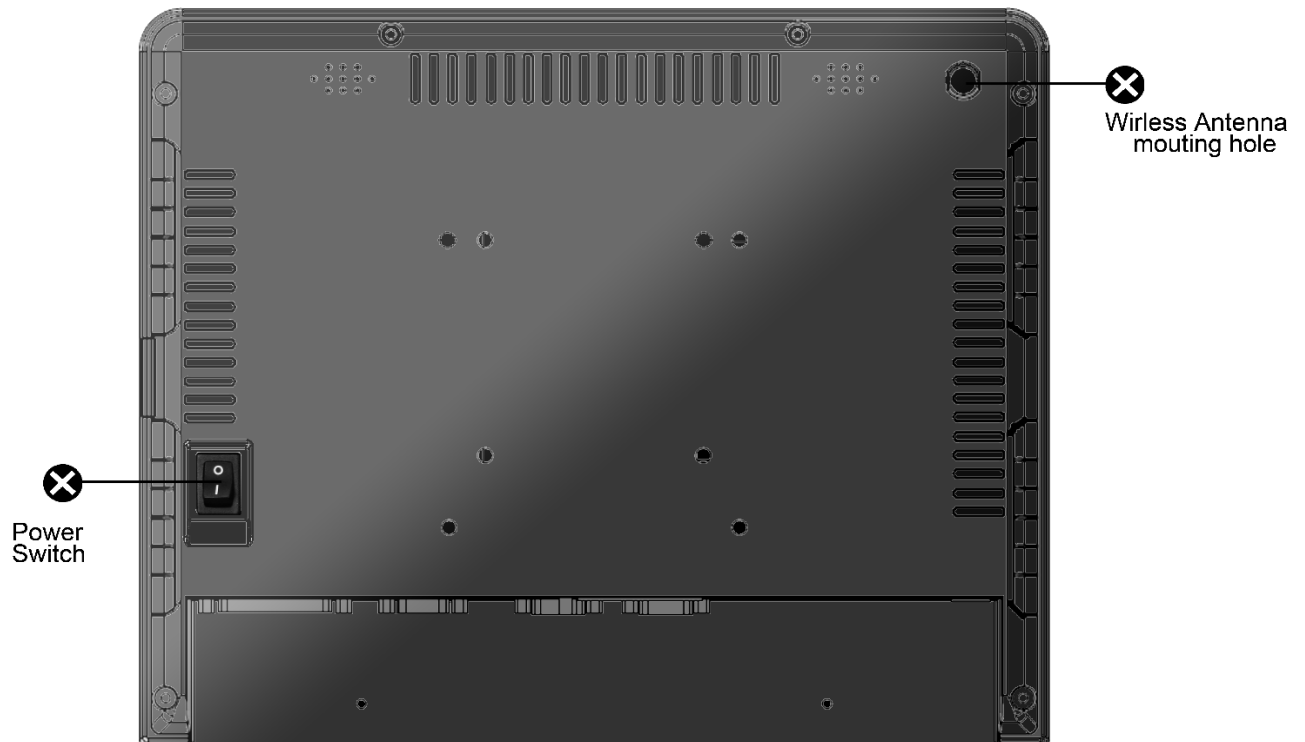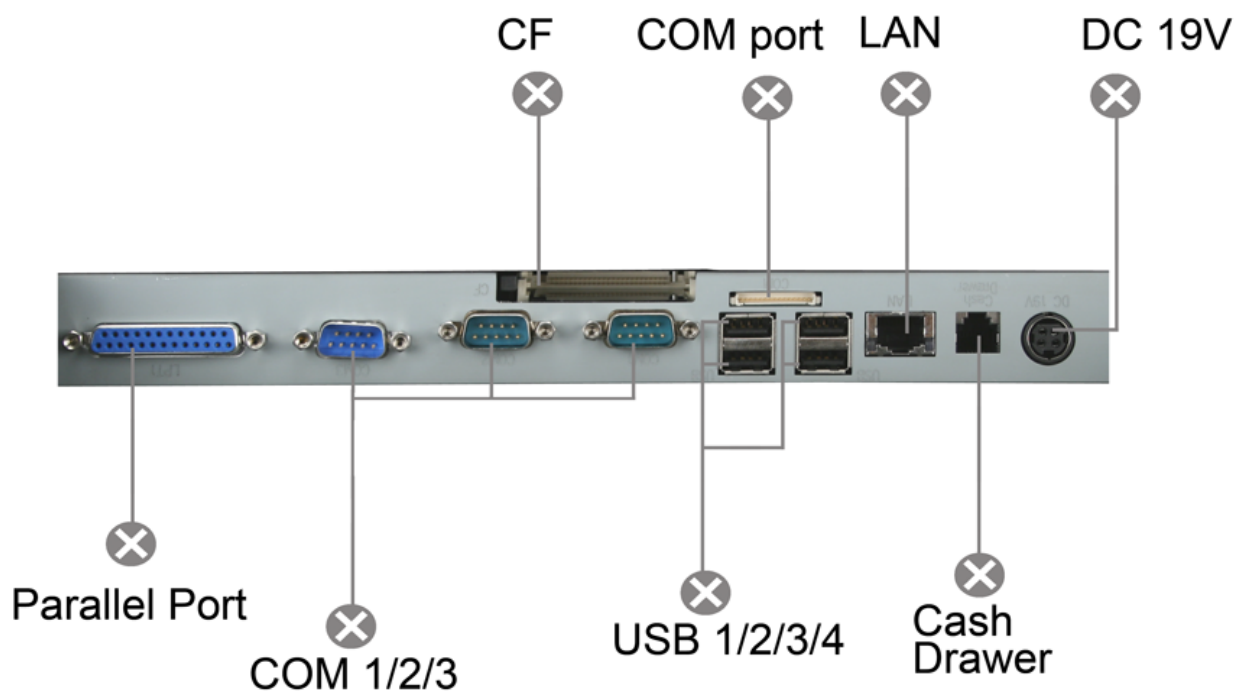|	
☀	The **Power** indicator will glow green when power is on.
🛢	The **HDD** indicator will blink green when the HDD is accessed.
🔗	The **LAN** indicator will blink green when transferring data though the LAN.

Back View

Wirless Antenna mouting hole

Power Switch

Back Panel I/O

CF   COM port   LAN   DC 19V

Parallel Port

COM 1/2/3

USB 1/2/3/4

Cash Drawer

Note: For details of I/O ports on the back panel, please refer to Chapter 6 – I/O Definition..

3.2. Peripherals Installation

Power Adapter

Connect the 4-pin output jack of the adapter to the **DC 19V** jack on the back panel of the device.

USB Mouse, USB Keyboard and USB ODD

Connect your USB Mouse, USB Keyboard and USB ODD to **USB** ports on the back panel of the device.

LAN Cable

Connect one end of RJ-45 LAN cable to the **LAN** port on the back panel of the device, another end to your internet device.
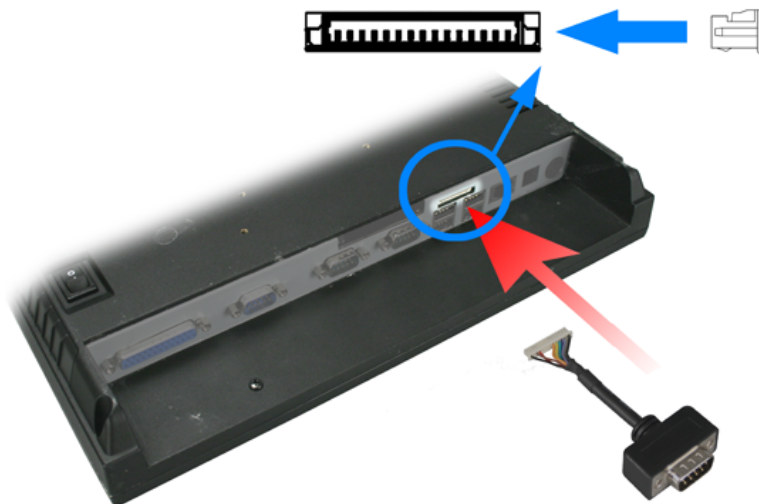

Cash Drawer

Connect one end of RJ-11 cable to the **Cash Drawer** port on the back panel of the

device, another end to your cash drawer.

D-Sub 9 Cable
1. Connect the female connector of the D-Sub 9 cable to the **COM** port on the back panel of the device in the correct orient.
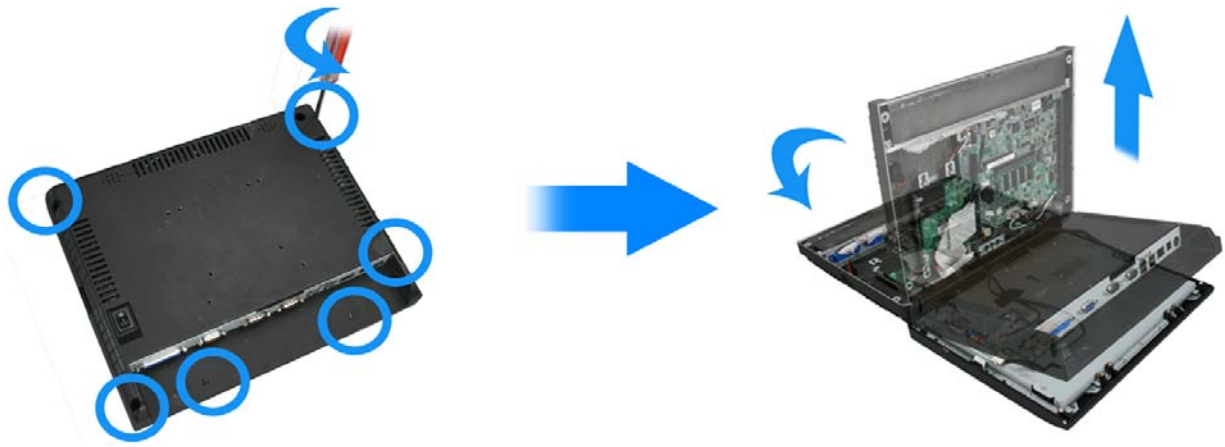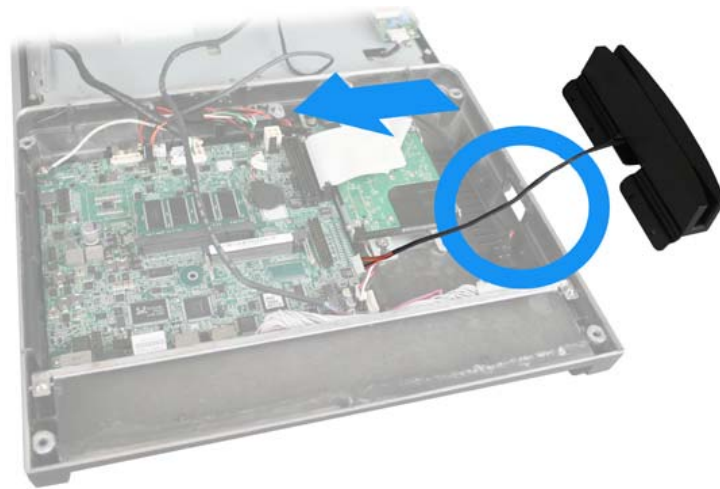

MSR Installation
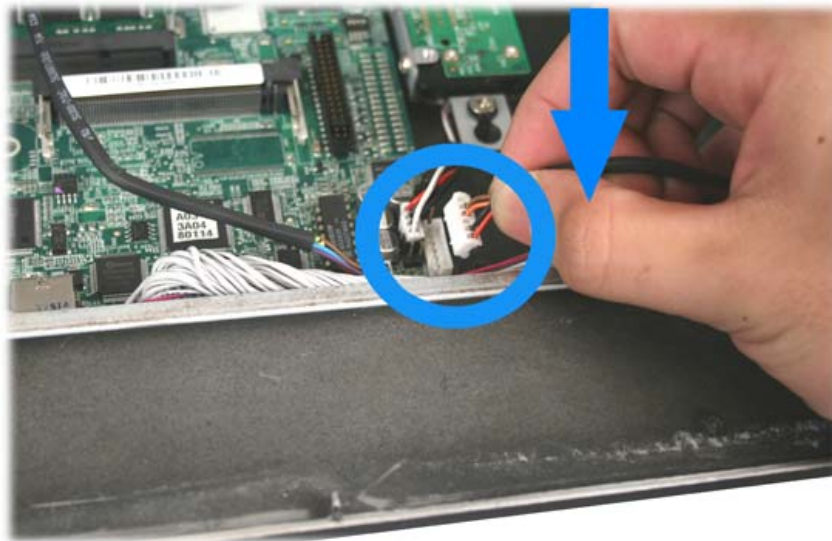1. Remove the two plastic covers from the device as shown below.

2. Loosen the six screws and open the chassis as shown below.

3. Pass the MSR cable through the hole of the chassis as shown below.
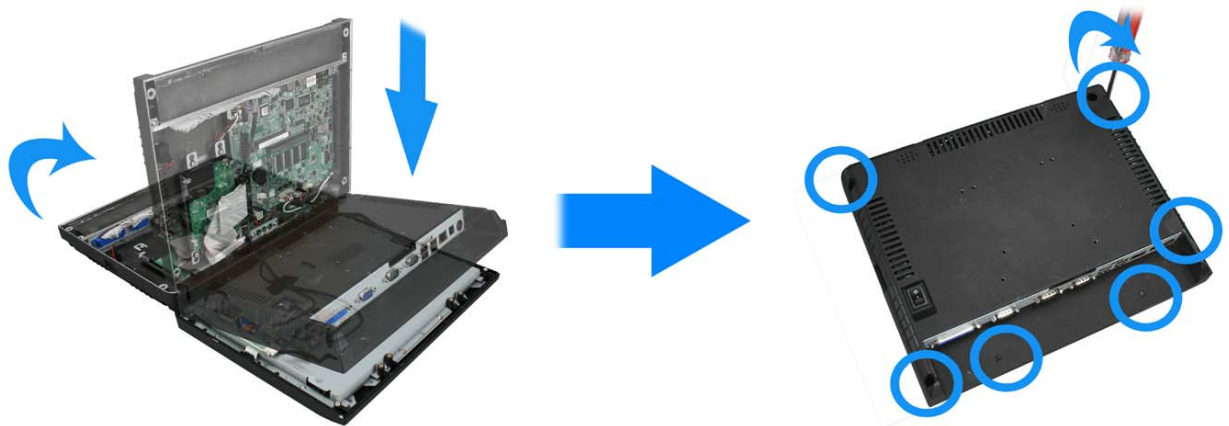

4. Plug the MSR to the connector in the correct orient.

5. Tighten the four screws of the MSR assembly as shown below.

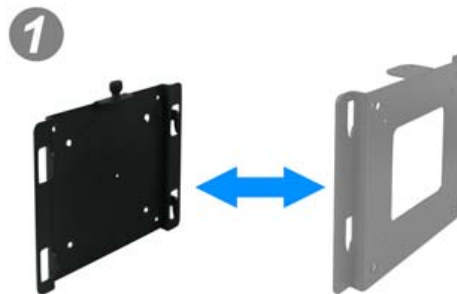6. Close the back panel and tighten the four screws on the back panel.

7. Finished.

3.3. Adjust View Angle (EZPOS Series only)

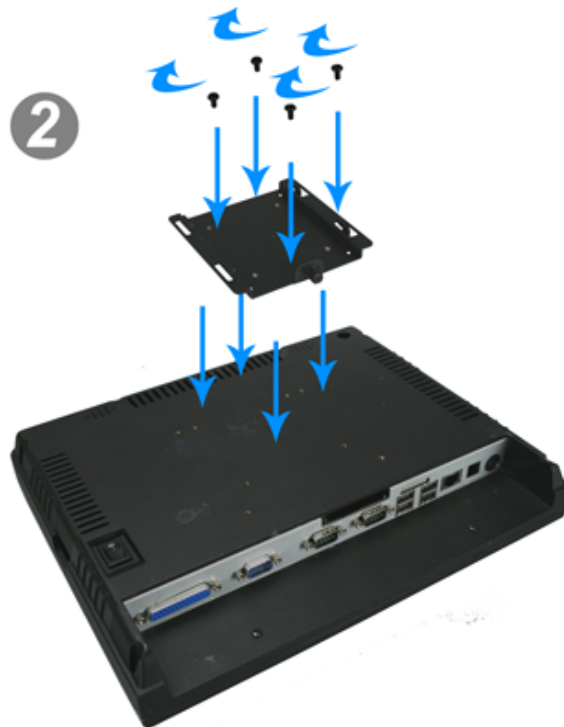Adjust the device to the proper view angle.

3.4. Wall Mount Kit installation (EZPC Series only)

1. Separate the wall mount kit.

2. Align the screw holes of the wall mount kit to the holes of the device and tighten the four screws.

3.5. Turn on the Device

1. Make sure all peripherals are connected properly.

2. Press and hold the power switch until the power indicator on the front panel glow green.

4.

Driver and Utility Installation

4.1. Before the installation

All installation procedures described below are based on Microsoft Windows XP.

1. Connect an external USB CDROM drive to the USB port and insert the driver CD and turn on the device. The program autoruns and displays the **DRIVER BANK** screen.

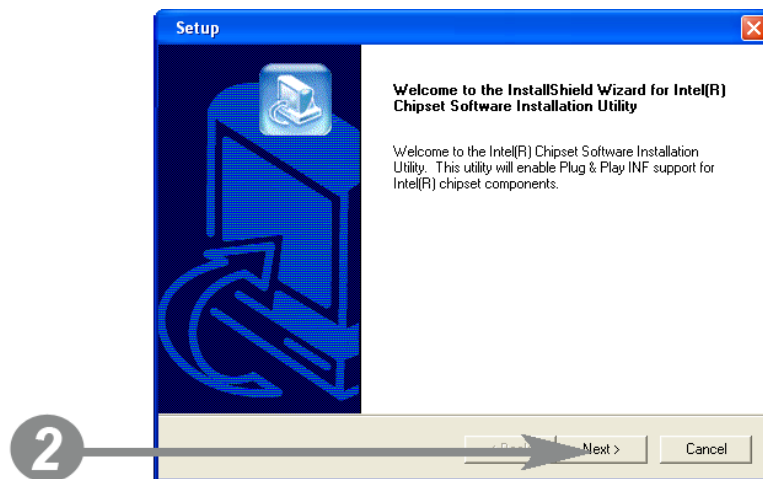2. Click the proper product item.
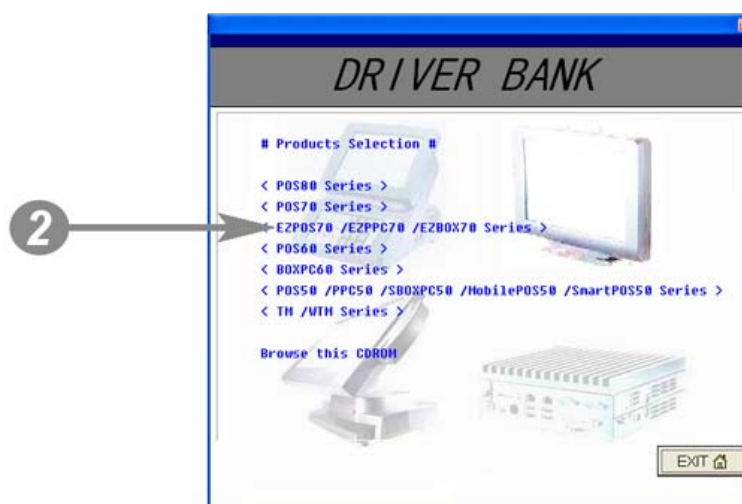
4.2. Chipset Software Installation
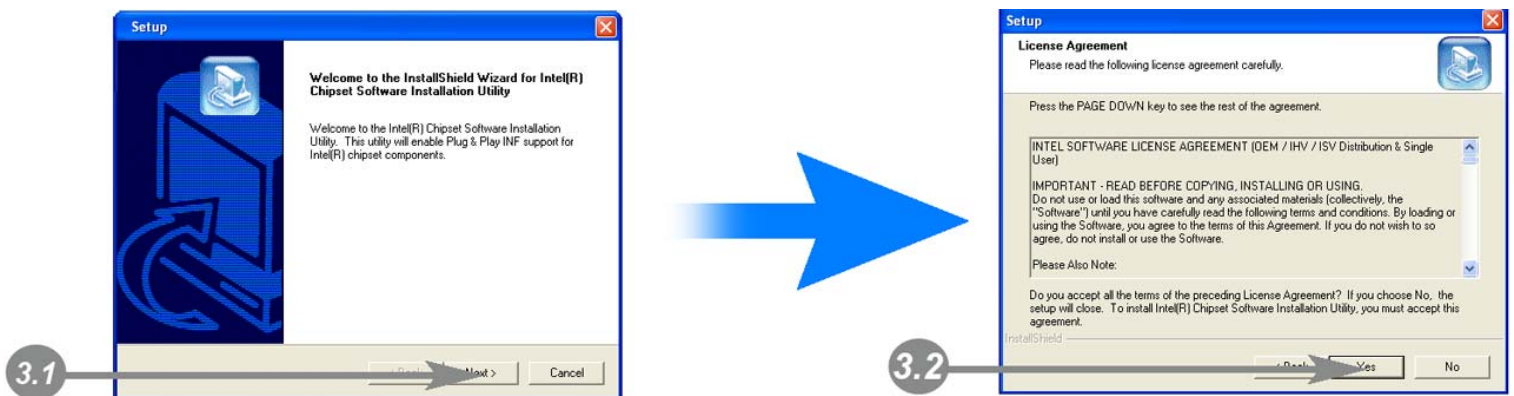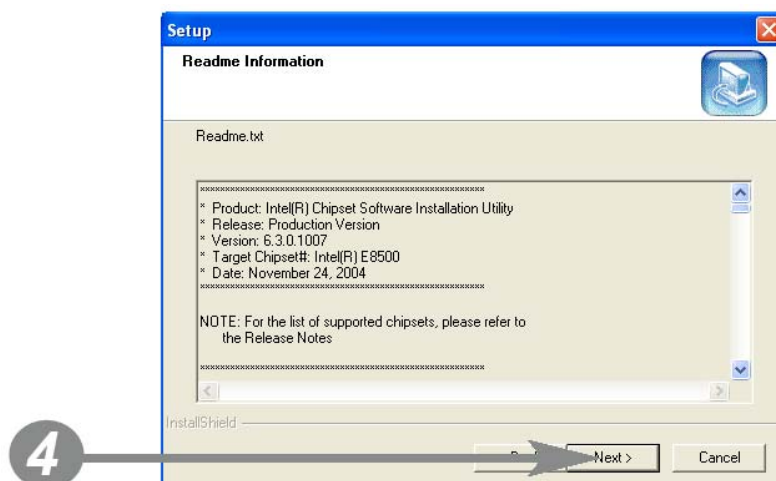
1. Click **INTEL Chipset Driver**.

2. Click **Next**.

3.1. Click **Next**.

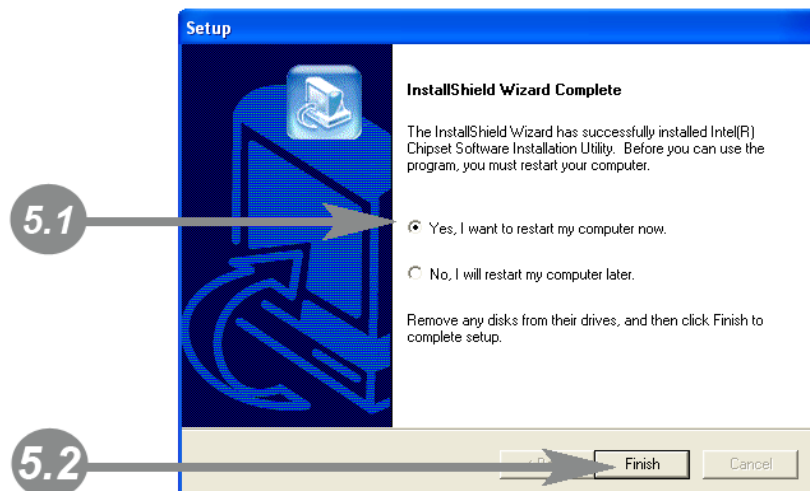3.2. Read the License Agreement carefully and click **Yes**.

4. Click **Next**.

Chapter 4

5.1. Select restart your computer right now or later.

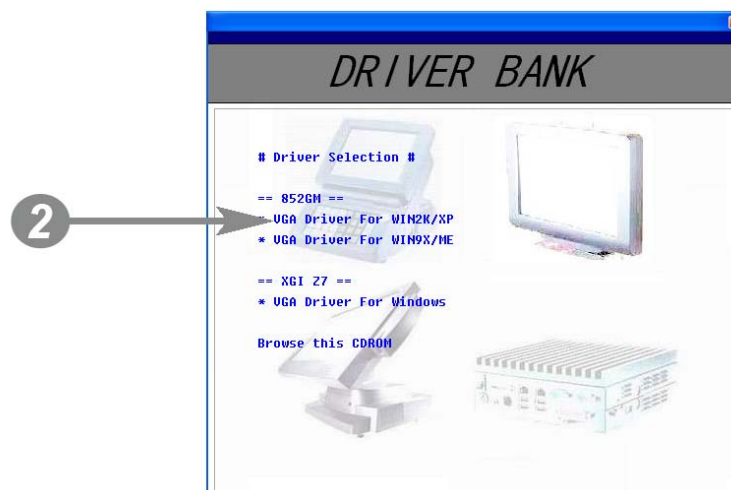5.2. Click **Finish**.

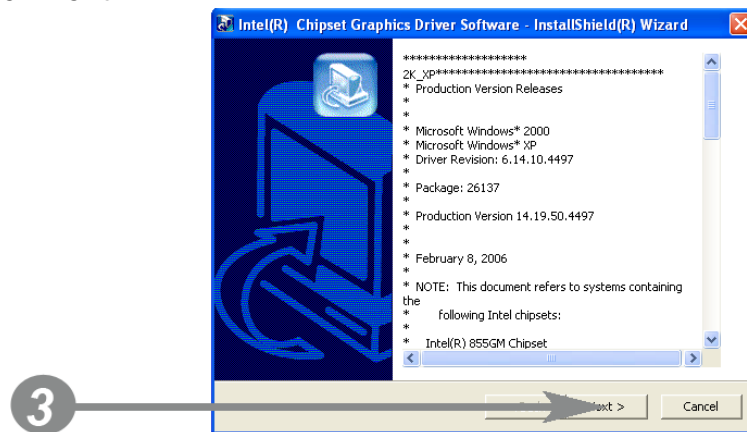## 4.3. VGA Driver Installation

1. Click **Graphic Driver**.
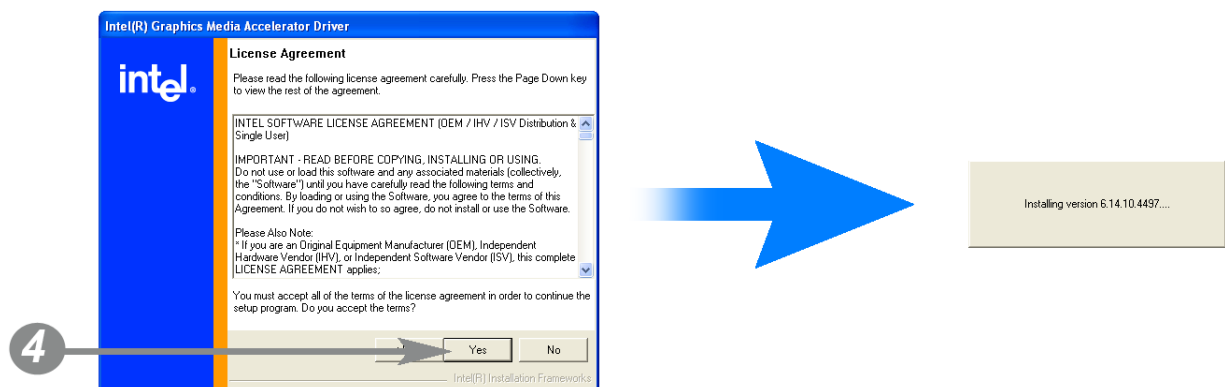

2. Click **VGA Driver for WIN2K/XP**.

3. Click **Next**.

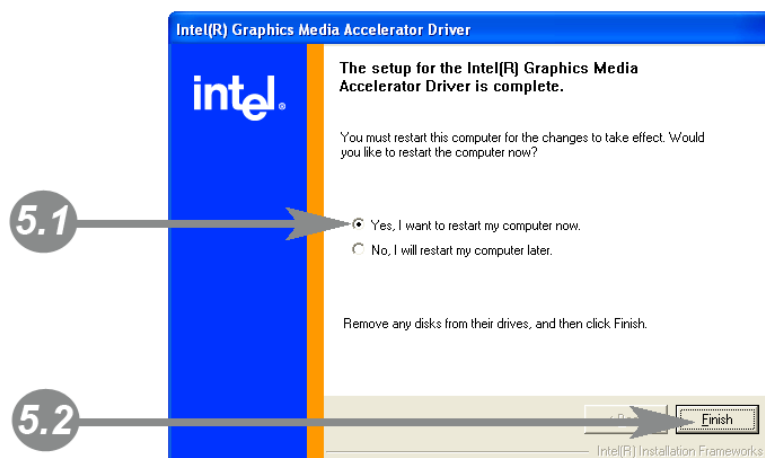3.1. After files extracted, click **Next** on the welcome screen.

4. Read the License Agreement carefully and click **Yes**, and then the installation starts.

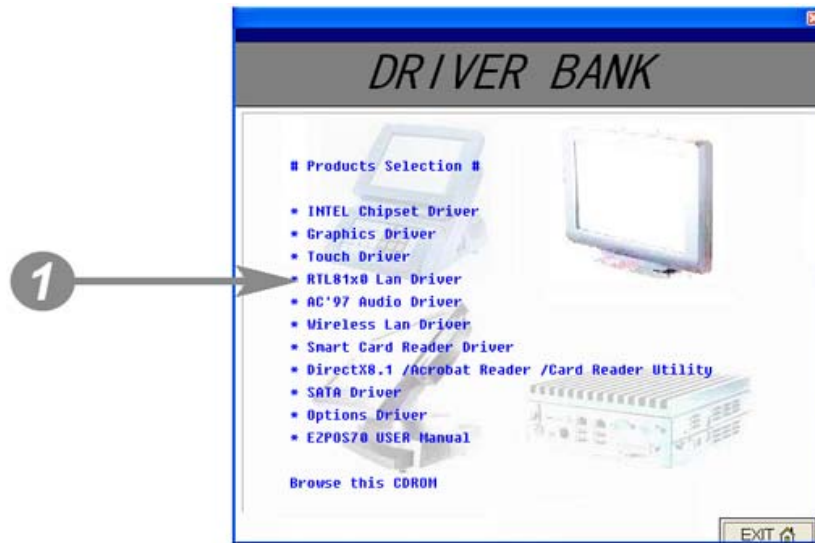5.1. Select restart your computer right now or later.

5.2. Click **Finish**.

4.4. LAN Driver Installation

1. Click **RTL81x0 LAN Driver**.

On the welcome screen, click **Next**.

Click Install to begin the installation.

3. Click **Finish**.

4.5. Audio Driver Installation

1. Click **AC'97 Audio Driver.**
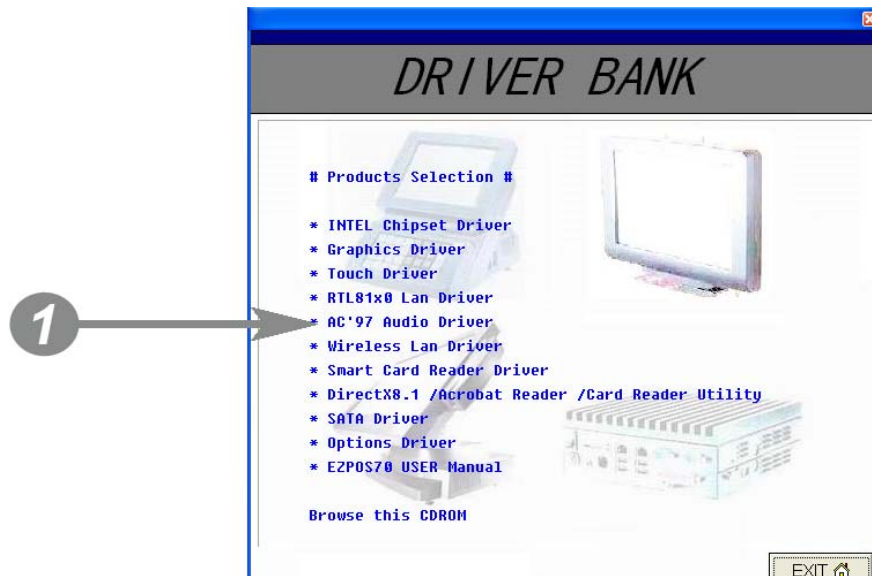
2. Configures new software installation.
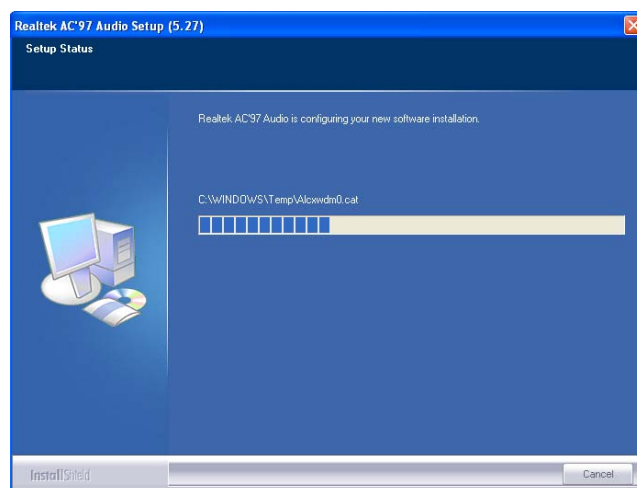
3. Click **Configure Anyway**.

4. AC'97 drivers begins to install.

5.1. Select restart your computer right now or later.

5.2. Click **Finish**.

4.6. Wireless LAN Driver Installation
1. Click **Wireless Lan Driver.**

2. On the welcome screen, click **Next**, and then the installation begins.

3.1. Select restart your computer right now or later.

3.2. Click **Finish**.

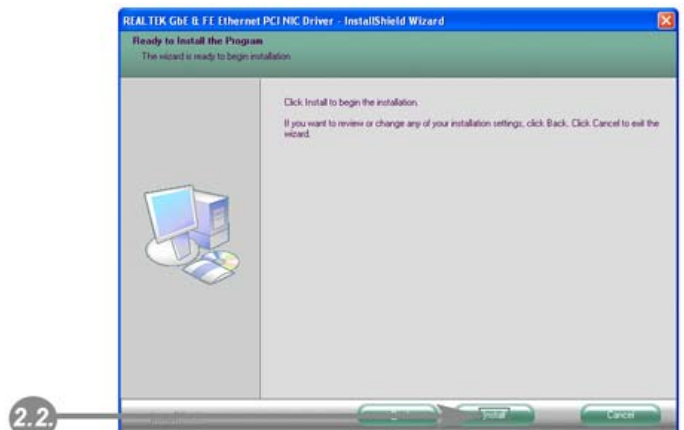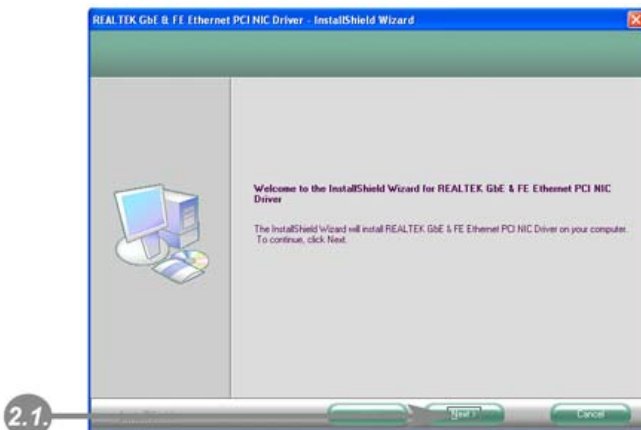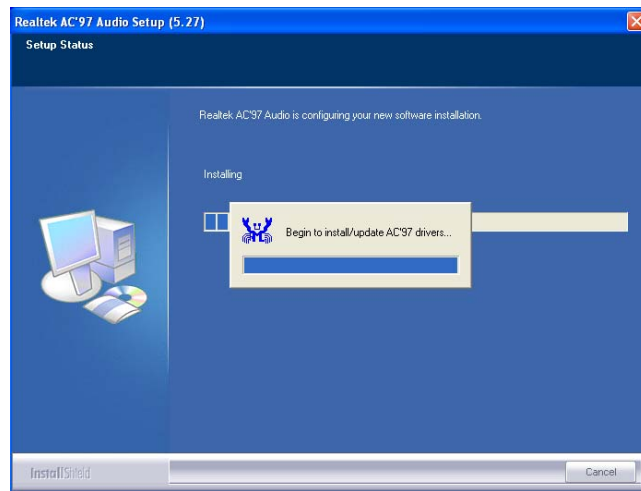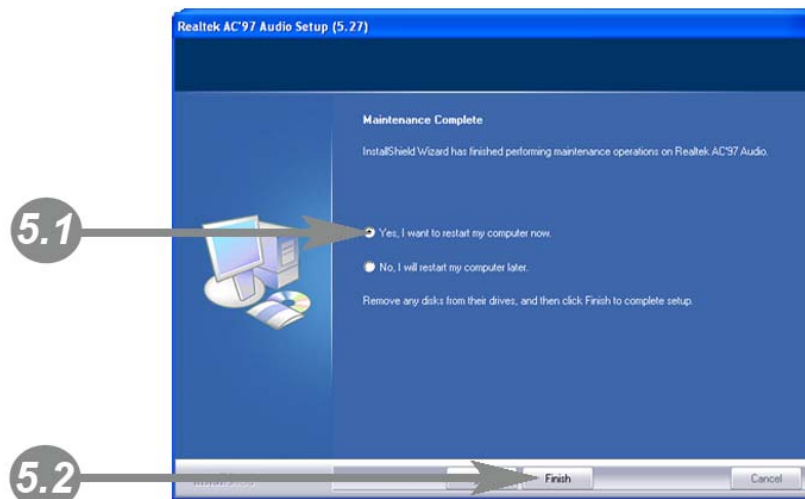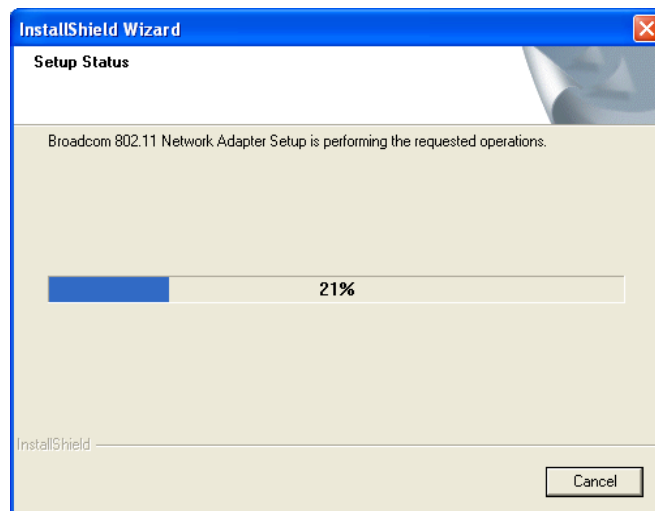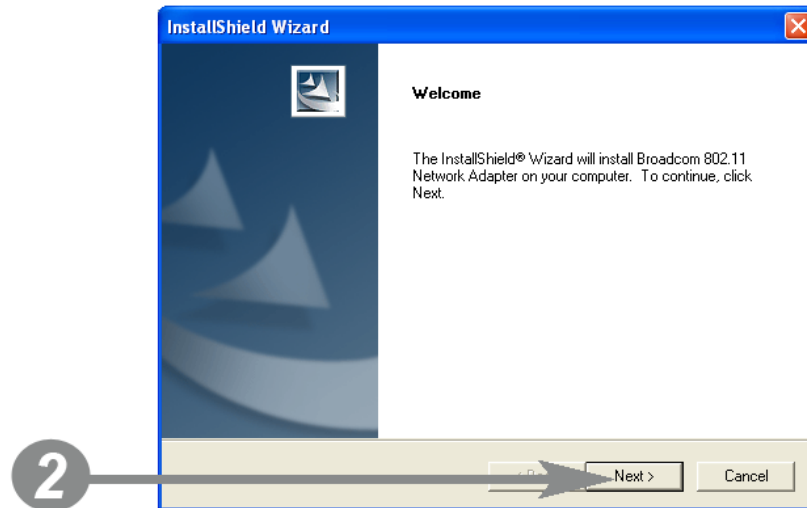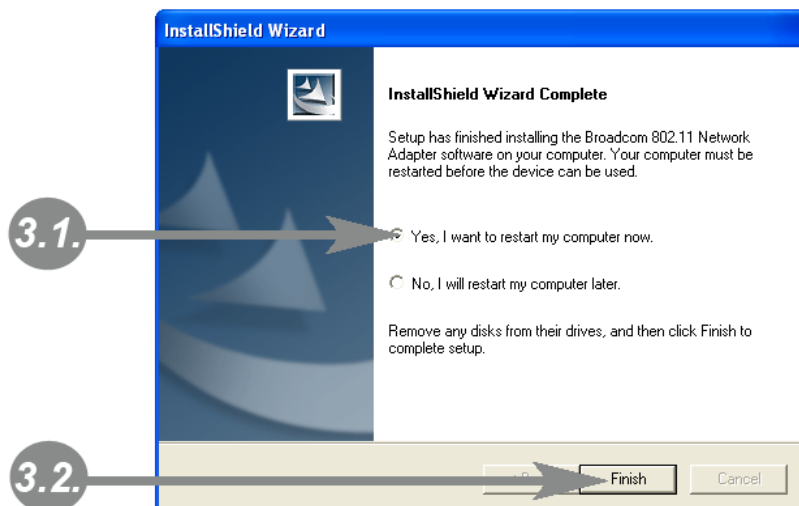# TouchKit Utility Quick Guide

5.1. Launch Touchscreen V7.3.COM

1. Under Microsoft Windows XP, click "**start**" menu and select "**Programs**", under "**Touchscreen V7.3.COM**" menu, click "**Touchscreen Control Panel V7.3.COM**", the control panel of the program shows.

5.2. User interface
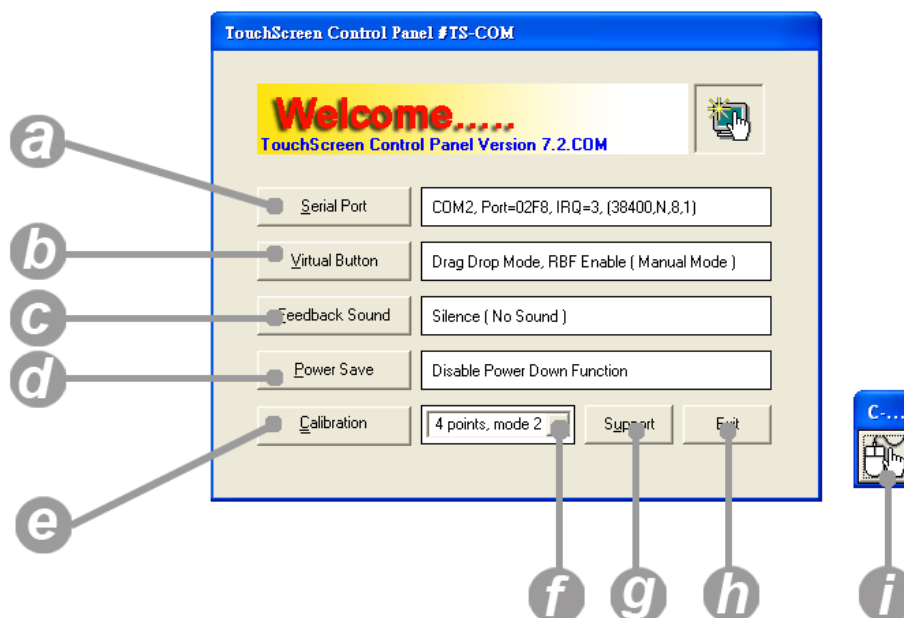
a	**Serial Port**	Display serial port information of the system.
b	**Virtual Button**	Open the virtual button setting dialogue box.
c	**Feedback Sound**	Open the feedback sound setting dialogue box.
d	**Power Save**	Open the power down timer adjustment dialogue box
e	**Calibration**	Switch to calibration screen.
f	**Calibration Mode Menu**	Select the calibration by clicking this drop-down list.
g	**Support**	Display technical support information.
h	**Exit**	Exit the program.
i	**Event Selector**	Enable right mouse button function.
		The default of this selector is with the left mouse button selected on. For details about event selector settings, please see "**How to Use Event Selector**" of Section 5.2.

5.3. Serial Port Information

Click **Serial Port** button, the serial port information shows.

Click **OK** to back to the control panel.
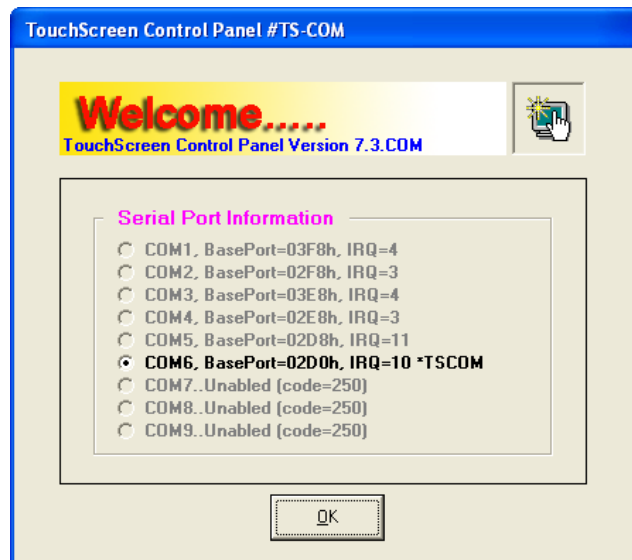
5.4. Virtual Button Settings

Click **Virtual Button** button, the dialogue box shows:
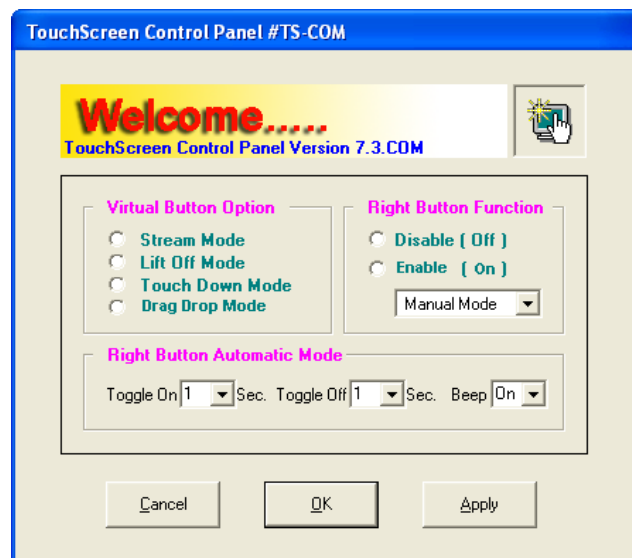
The selected option will be in black.

Virtual Button Option

Under **Virtual Button Option** group box, there are four options:

˙Stream Mode

Under this mode, all mouse button simulation will be disabled.

˙Lift off Mode

Under **Lift off Mode**, tapping and holding on the screen equals pressing and holding on the left button of the mouse.

˙Touch Down Mode

Under **Touch Down Mode**, one single-tapping equals one left mouse clicking.

·Drag Drop Mode

Drag Drop mode allows you to select an object on the screen by tapping, and then slide the selected object to a new location on the screen, the selected object will be dropped on the new location by releasing the touch.

The selected option will be in black.

Right Button Function

·Disabled (Off)

Select this option, the event selector will be disabled and disappear.

·Enable (On)

Select this option, the event selector will be enabled and show on the left-bottom corner of the screen.

·Automatic Mode/Manual Mode Drop-down List

If the Drag Drop Mode under **Virtual Button Option** group box is select, the drop-down menu below the **Enable (On)** option will be enabled.

Automatic Mode

- Select this option, the Right Button Function will switch to automatic

mode and the event selector will be disabled and disappear.

Manual Mode

- Select this option, the Right Button Function will switch to manual

mode and the event selector will be enabled and show on the left-bottom corner of the screen.

- Options under **Right Button Automatic Mode** will be enabled when **Manual Mode** is selected.

The selected option will be in black.

Right Button Automatic Mode

Toggle On 0.5 ▼ Sec.

Toggle On time is the duration between the tapping on the screen and that the right mouse button is "virtually" pressed and held.

Release the tapping from screen after toggle-on, the pop-up menu shows.

The minimize value is 0.5 and maximum value is 5.

Toggle Off 4 ▼ Sec.

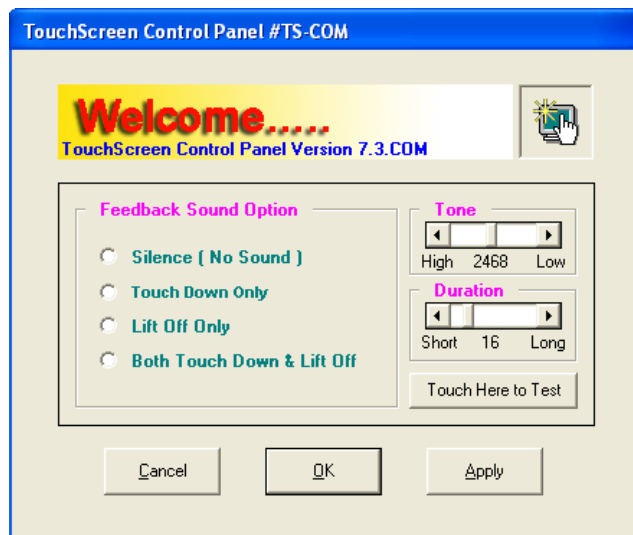This option defines how long the right button function will be off.

The minimize value is 0.5 and maximum value is 5.

Beep On ▼

Click the drop-down menu to select **On** or **Off** to enable or disable the beep sound effect for toggle-on and toggle off.

5.5. Feedback Sound

Click **Feedback Sound** button, the dialogue box shows:

Feedback Sound Option
Silence (No Sound)

No any sound effect.

Touch Down Only

When this option is selected, there will be one "beep" sound when tapping on the screen.

Lift Off Only

When this option is selected, there will be one "beep" sound when releasing from the screen.

Both Touch Down & Lift Off

When this option is selected, there will be one "beep" sound when tapping on the screen and releasing from the screen.

Tone

Drag the bar to adjust the frequency of the sound effect.
The minimize value is 200 and maximum value is 5000.

Duration

Drag the bar to adjust how long the "Beep" sound will be.
The minimize value is 10 and maximum value is 50.

The selected option will be in black.

5.6. Screen Calibration

1. Click the drop menu next to the Calibration button to select calibration mode.

4 points, mode 1 – rectangular four-point calibration
**4 points, mode 2** – rhombic four-point calibration

2. Click **Calibration** button to enter the calibration screen.

4 points, mode 1

a. The ⊞ mark shows on the Left-up corner.

b. Follow the instruction in green to touch the center of Cross Mark.

c. When the instruction turns into yellow, releasing the tapping from the screen.

d. Follow the instruction in green to touch the center of Cross Mark.

e. Repeat Step 2 – Step4 to finish the calibration procedure.
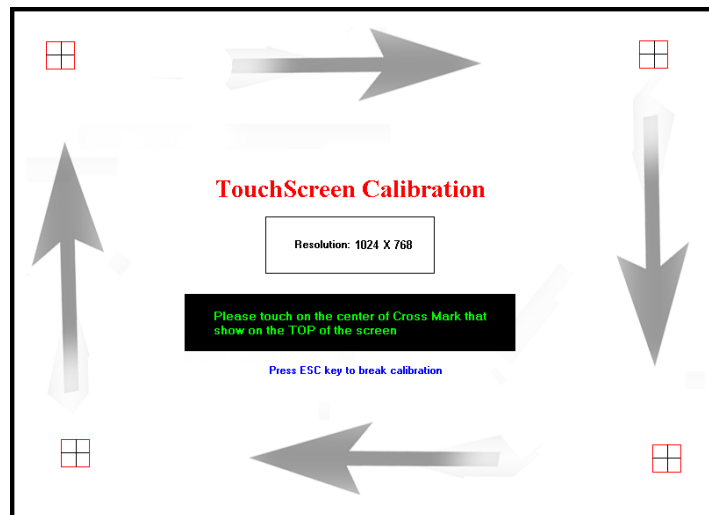
4 points, mode 2

a. The ⊞ mark shows in the middle of the length of the screen.

b. Follow the instruction in green to touch the center of Cross Mark.

c. When the instruction turns into yellow, releasing the tapping from the screen.

d. Follow the instruction in green to touch the center of Cross Mark.

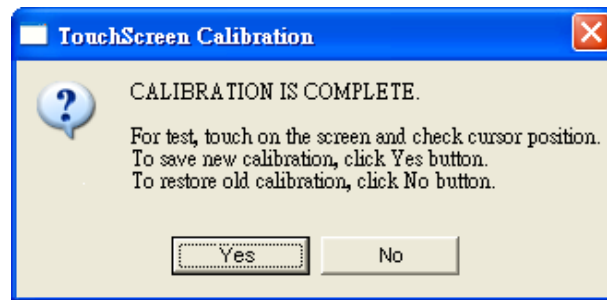e. Repeat Step 2 – Step4 to finish the calibration procedure.
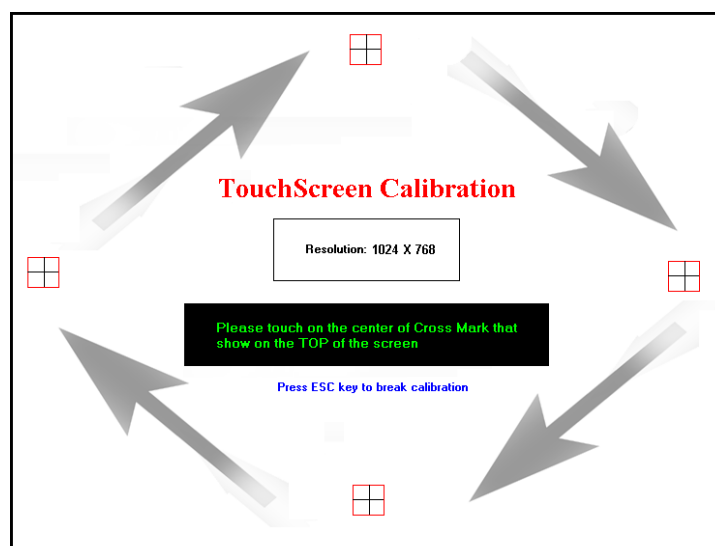
3. When the calibration procedure is completed, the message shows:

To save the new calibration, click **Yes**, to restore the old calibration, click **No**.

How to Use Event Selector

1. On the desktop of Windows, click icon.

2. icon change to .

3. Now the tapping is simulating right mouse button clicking.

4. After one tap on the screen, icon change to .

5. The tapping resumes to left mouse button clicking.

6.

I/O Definition

Please refer the detailed technical information about all I/O ports as followings.

6.1. Power Connector

DC 19V

PIN	Description	PIN	Description
1	+19V	3	GROUND
2	+19V	4	GROUND

6.2. Serial Port

PIN 1

PIN 9

COM 1/2/3
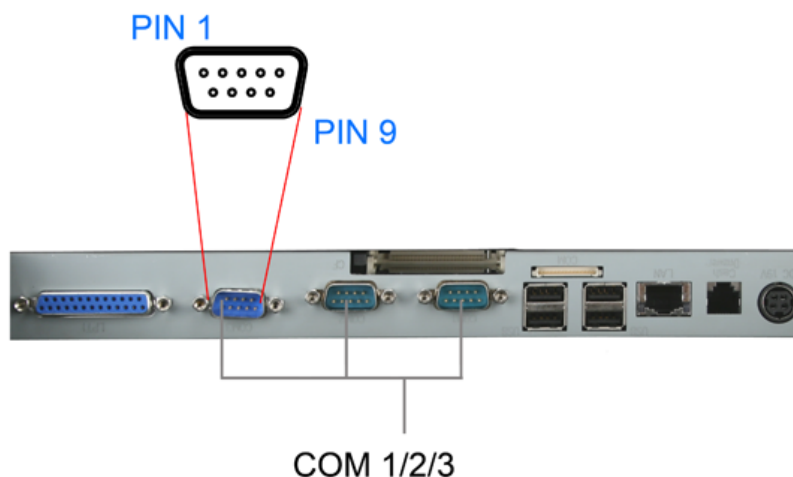
COM Port 1/2/3/4			
PIN	Description	PIN	Description
1	DCD	6	DSR
2	RXD	7	RTS
3	TXD	8	CTS
4	DTR	9	RI / 5V /12V
5	GND	10	NC

6.3. COM Port
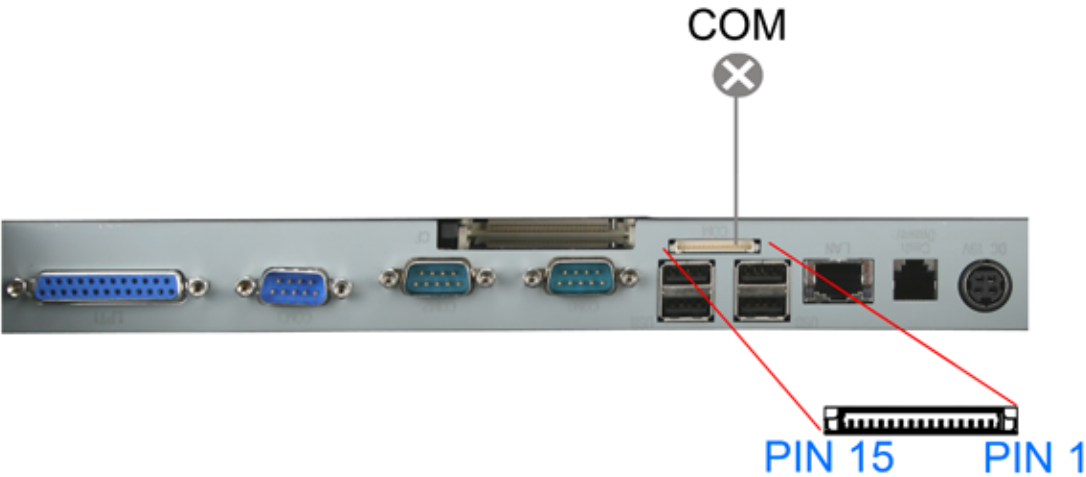
PS2/COM					
PIN	Description	PIN	Description	PIN	Description
1	GND	6	N.C	11	CTS
2	+5V	7	N.C	12	RTS
3	RXD	8	N.C	13	DSR
4	TXD	9	RI / 5V /12V	14	DCD
5	N.C	10	DTR	15	N.C

6.4. Cash Drawer
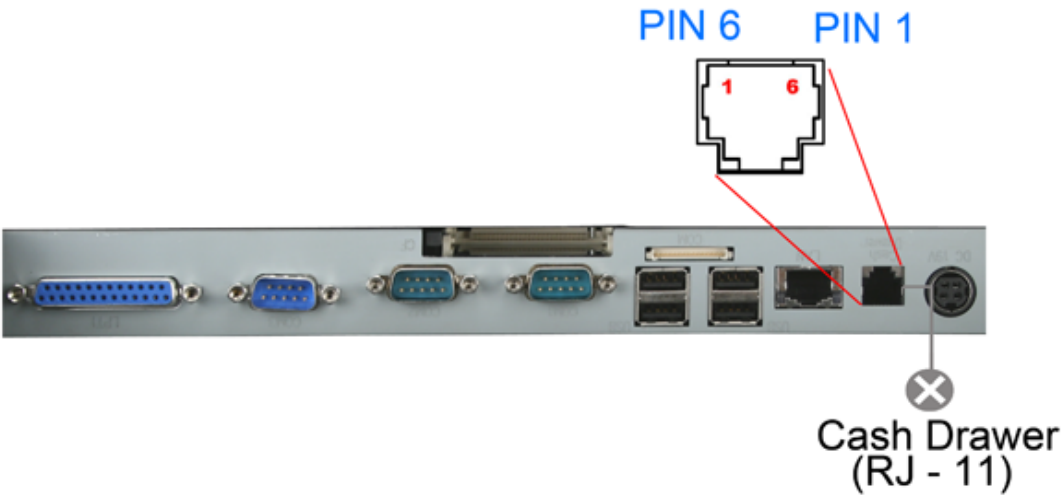
Connector

PIN	Description	PIN	Description
1	GND	4	12V
-+2	D_OUT	5	NC
3	D_IN	6	GND

Cash Drawer Control

Status	Address	Value
Open	280H	Bit 4 = 0
Close	280H	Bit 4 = 1
Read Status	281H	Bit 0 = 0/1

7.

Specification
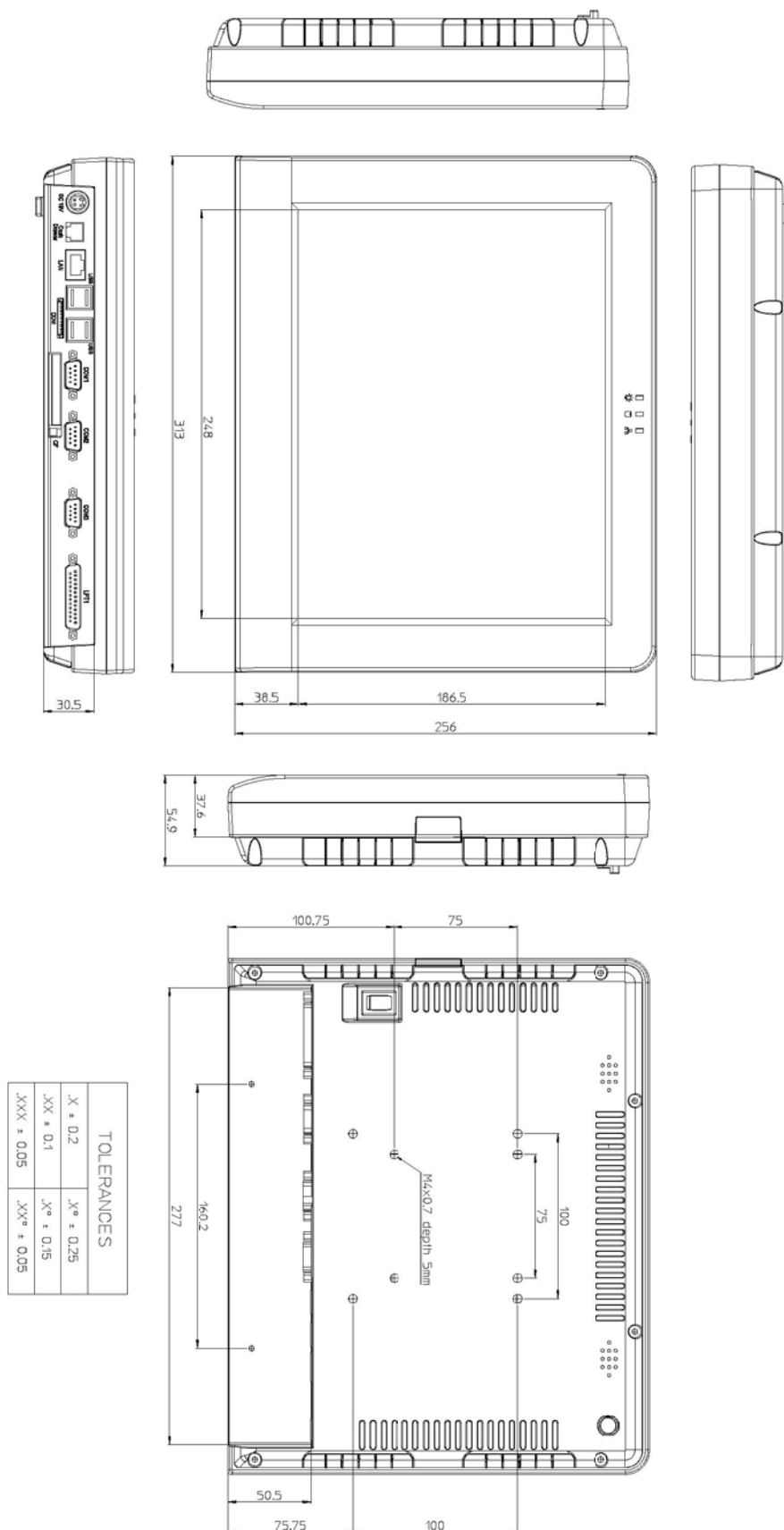
Main Board	
CPU	Intel® Ultra Low Voltage Celeron M 1GHz w/o L2 cache
Chipset	Intel 852GM + ICH4
System Memory	SO-DIMM DDR266, 128MB up to 1GB
Thermal Solution	Fan-less
OS	Microsoft Windows XP Professional, XPE, WEPOS, Windows CE, Linux
Storage Device	
HDD	1 x SATA , 2.5" HDD Drive Bay
Compact Flash	1 x Slot, Type II
I/O Ports	
Serial	6 x RS-232 COM2/3: RS-232, DB-9, male, Pin9 w/ RI/5V/12V Selectable by BIOS COM4: Internal Pin Header for MSR COM5: 15Pin Header or DB9 COM6: Internal for Touch Panel
Parallel	1 x DB25 ECP/EPP/SPP
USB	4 x USB 2.0
LAN	1 x RJ45, Gigabit Ethernet
Cash Drawer	1 x RJ11 (12V)
Audio	AC'97 2.0 Compliant, 2W Speaker x 2
Expansion	1 x Mini PCI, optional wireless LAN module
Others	
Power Supply	External Adapter, 135W, 19VDC input
Color	Black
Material	Die-Casting Aluminum
Compliance	FCC / CE / WEEE / RoHS
Weight	Approx. PPC:6Kg / POS:7.5Kg
Dimension	256(W) x 55(D) x 313(H) mm
Operation Temperature	$5^o \sim 40^oC$,
Storage Temperature	$-20^o \sim 60^oC$,
Storage Humidity	20 – 85% RH, non-condensing