

User's Manual

X-PPC 710



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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.

RoHS Notice

RoHS

This device is full compliance with EU Directive

2002/95/EC (the RoHS Directive) that restricts the

use of the hazardous substances listed below in

electrical and electronic equipment.

Safety Statement for Lithium Battery

CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS

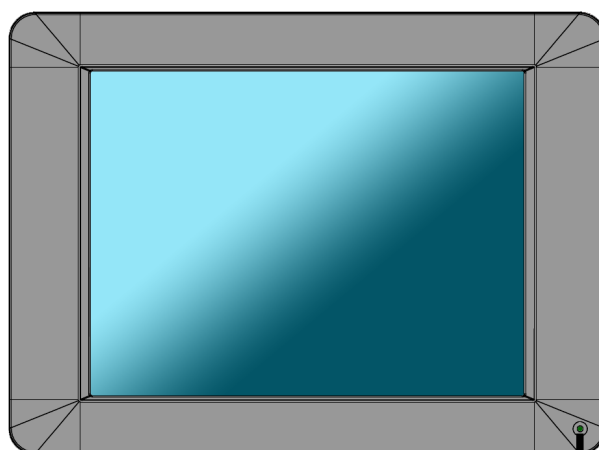
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Hardware Setup

1.1. Quick Tour

Front View and Side View



LED Indicator

LED Indicator

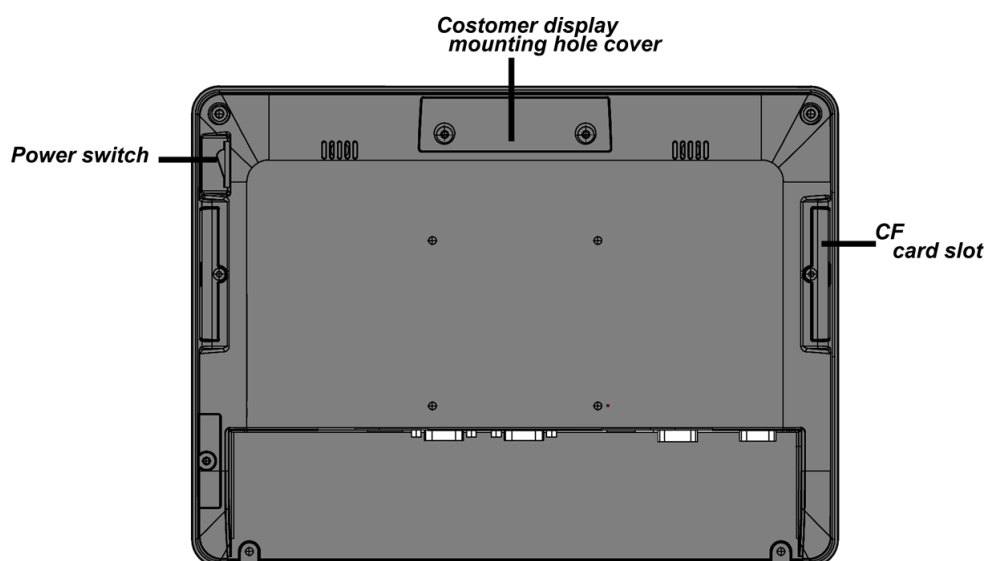
The **Power** indicator will:



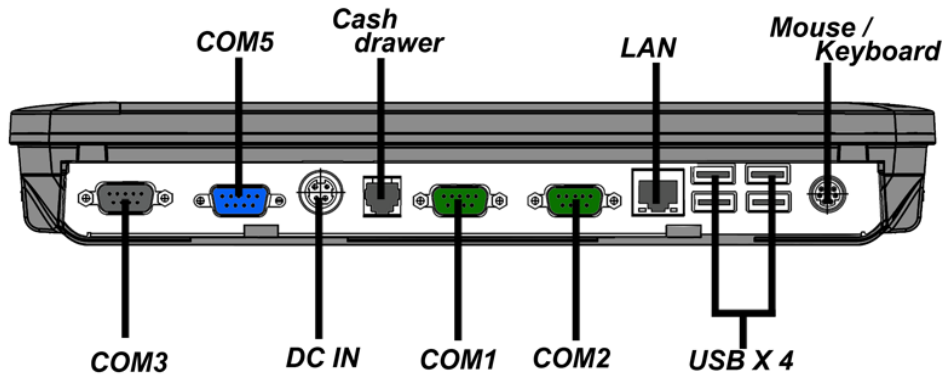
1. glow green when the power is on



2. glow red when the HDD is accessed.

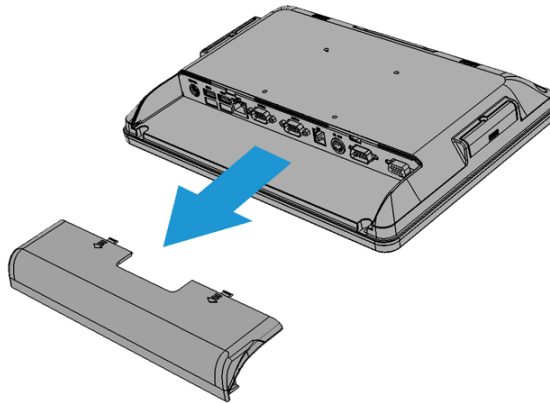


Back Panel I/O



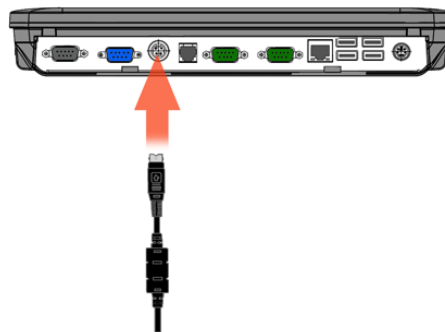
1.2. Basic Peripherals Installation

Remove the rear I/O board cover from the device.



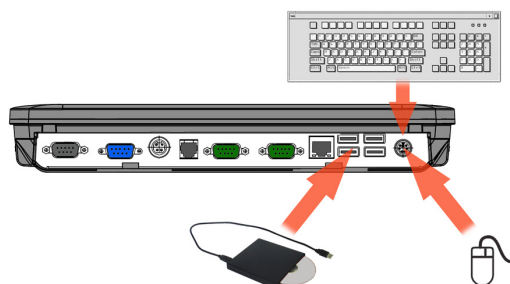
Power Adapter

Connect the DC cable to the DC in jack.



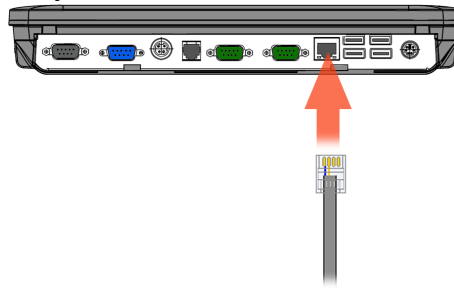
USB Mouse, USB Keyboard and USB ODD

Connect your Mouse and Keyboard to the mouse/keyboard port, and USB ODD to the USB ports on the back panel of the device.



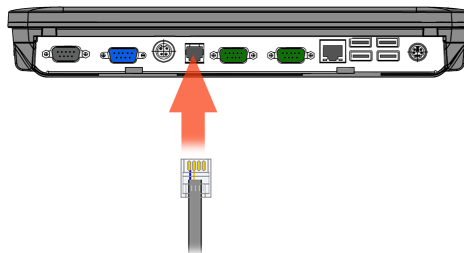
LAN Cable

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.

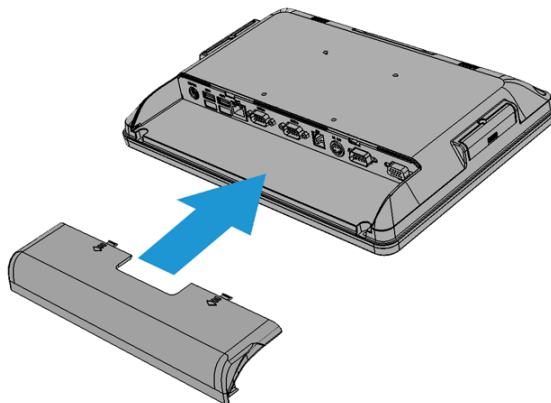


Cash Drawer

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.



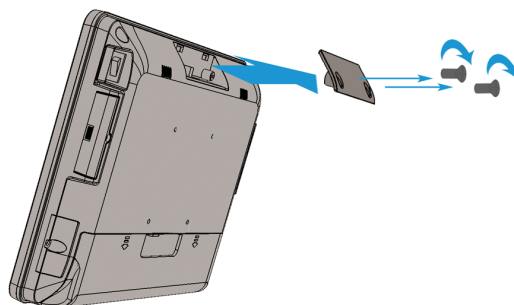
Install the rear I/O board cover onto the device.



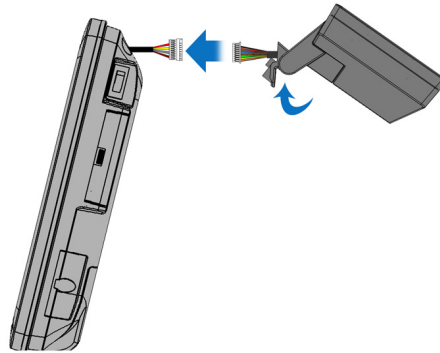
Customer Display

A. Hardware Installation

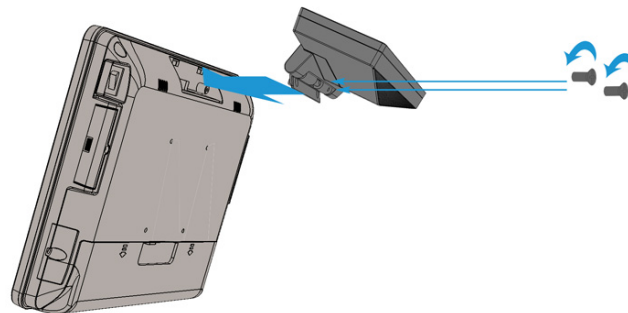
1. Remove the two screws fixing the customer display cover, and then remove the VFD mounting hole cove from the device and pull out the connector from the device.



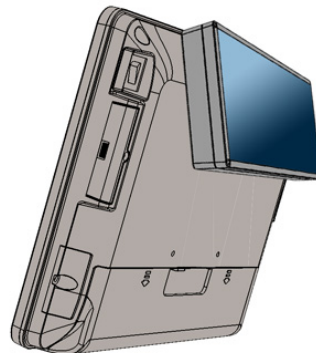
3. Adjust the hinge of the VFD, and then connect to the device as shown below.



4. Mount the VFD to the device and tighten the two M3 screws as shown below.

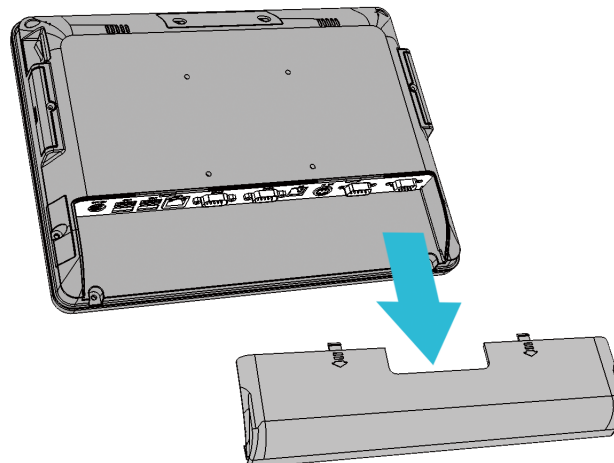


5. Finished.

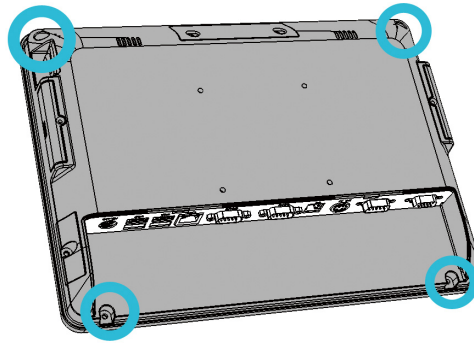


WiFi Module

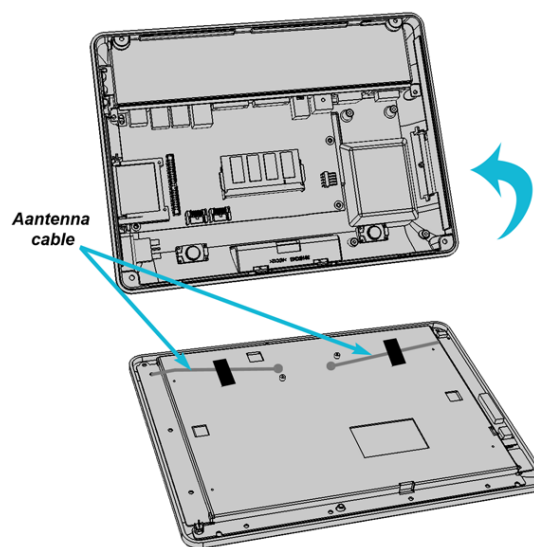
1. Remove the IO panel cover (if installed) from the device.



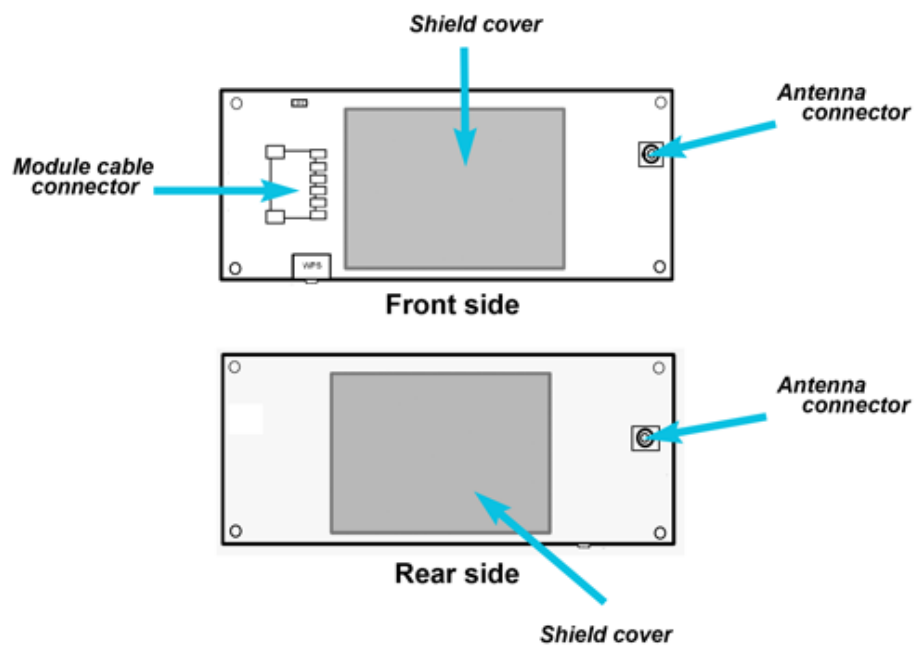
2. Un-tighten four screws.



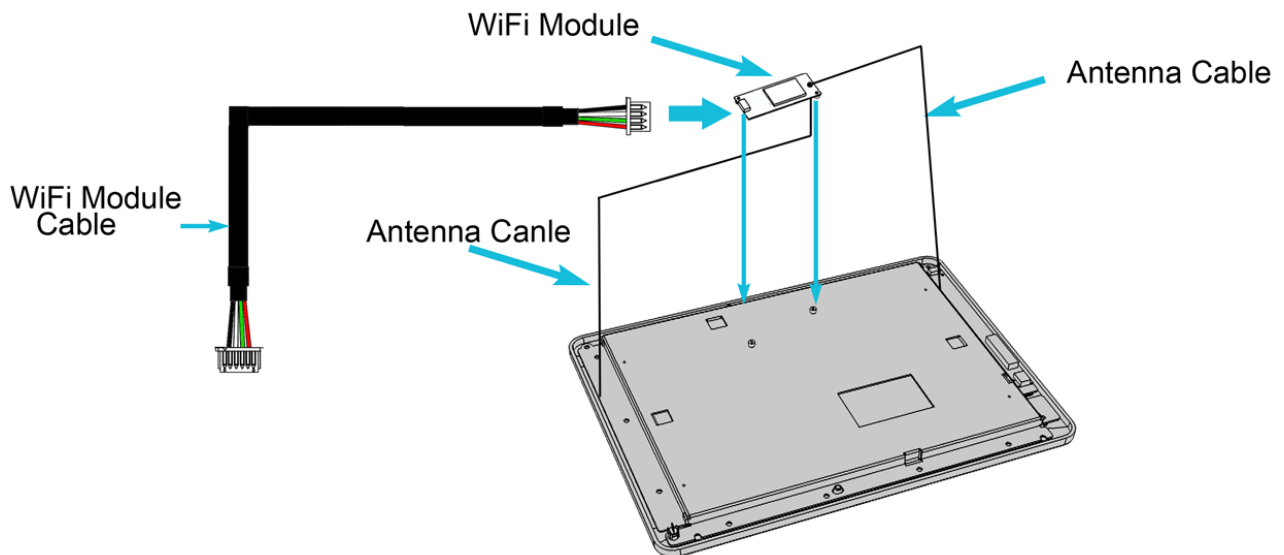
3. Open the device, and you'll see the two antenna cable fixed by black acetate tape.



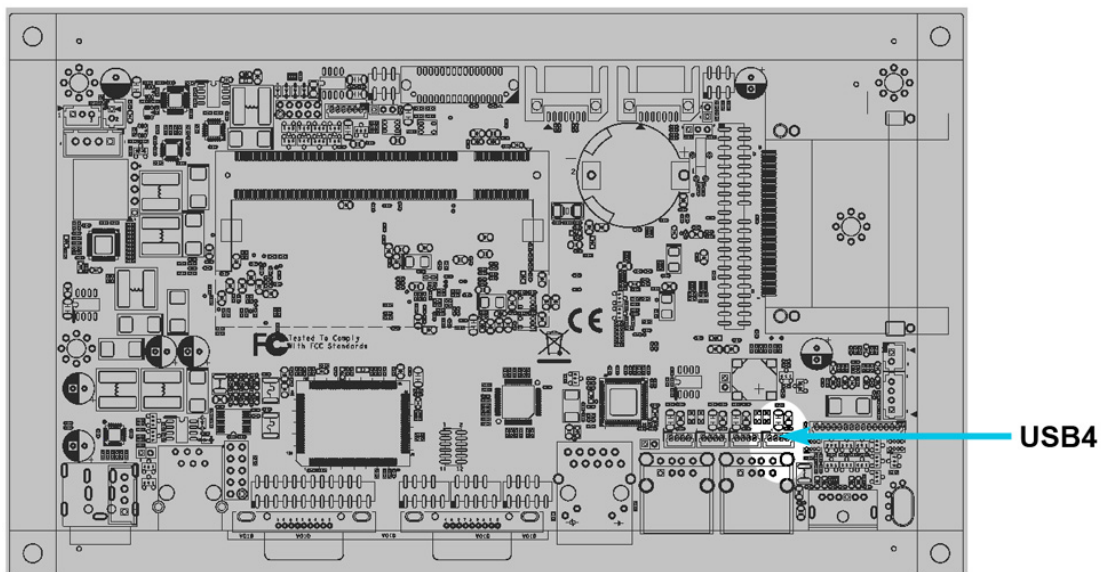
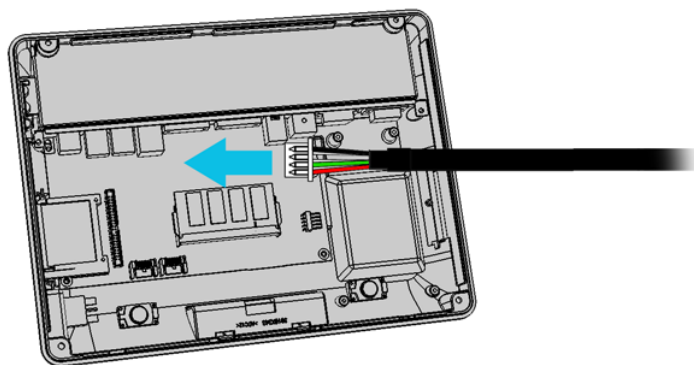
4. Below is the layout of the Wi-Fi module.



6. Assemble the WiFi module, antenna and WiFi module cable as shown.



8. Connect the another end of the WiFi module cable to the 4 pin USB header (USB 4) on the main board. For the location of the USB4 on the main board, please refer to the figure below.

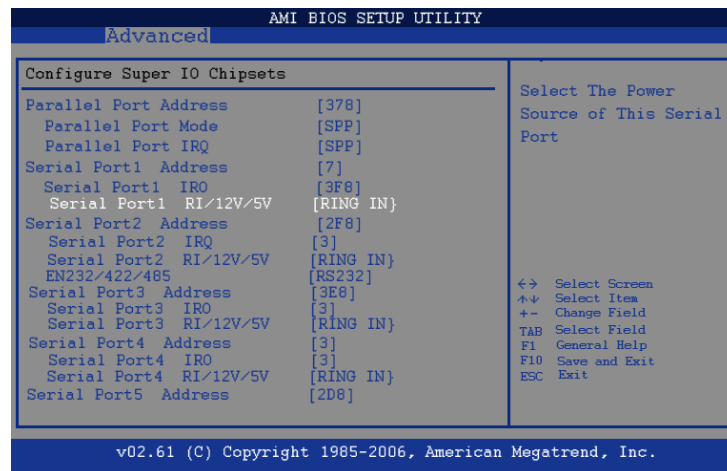


9. Reassembly the device.

B. Power Supply Configuration

Power up the XPPC710 and hit the DEL key to enter the BIOS. When the BIOS screen appears use the TAB key to select Advanced. Use the arrow keys to select Super IO Configuration then type ENTER. The screen below will appear. Use the arrow keys to select **Serial Port 6** RI/12V depending on what port the customer display is connected to. Select 12V to enable power to the correct COM port. Type F10 to save the settings and exit the BIOS setup.

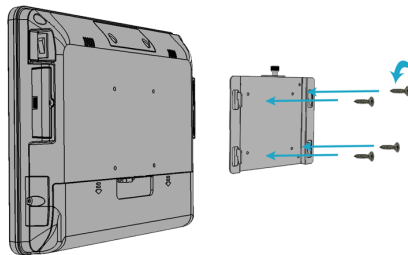
Caution: Never enable the 12 V without the customer display attached and be sure to disable the 12 V before removing the customer display.



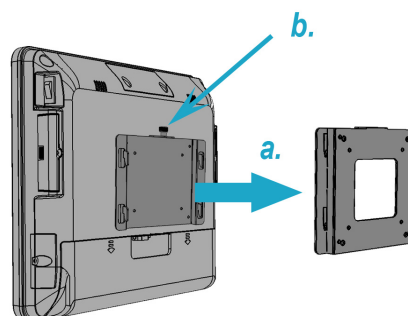
NOTE: The figure above is for reference only; it is possible that the actual screen on your device does not agree with it.

1.4. VESA Wall-mount Kit Installation

1. Install the device bracket.

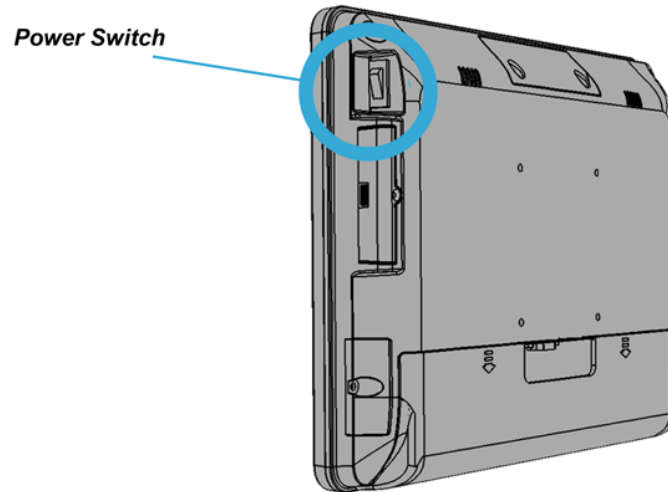


2. Put the XPPC 710 onto the wall bracket which is preinstalled on the wall.
3. Tighten the screw.



1.5. 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 glows green.



Basic Driver Installation

2.1. Before the installation

1. Connect an external USB CDROM to the USB power and insert the driver CD and turn on the device. The program autoruns and displays the **DRIVER BANK** screen.
2. Follow the on-screen instructions.

2.2. Chipset Software Installation

1. On the main screen, click **"XPOS 72 / XPPC72 / XPPC 710Series"**.



2. Click **INTEL Chipset Driver**.



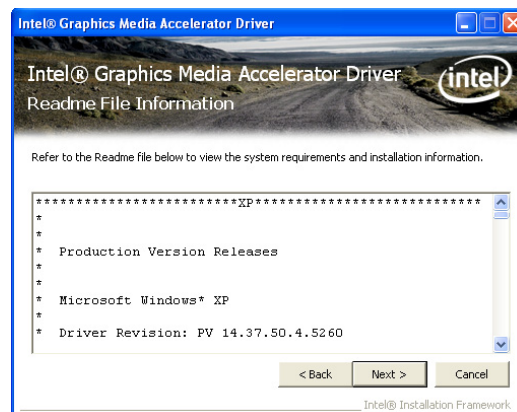
3. Click **Next**.



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



4. Click **Next**.



6. Click **Finish**.

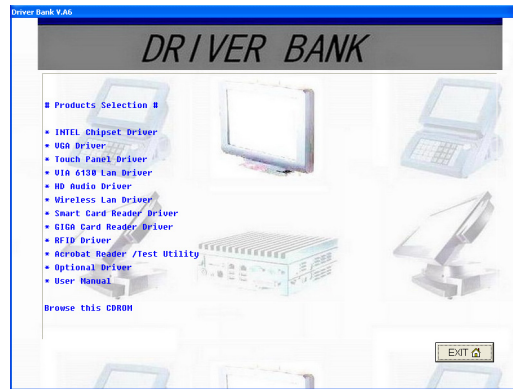


2.3. VGA Driver Installation

1. On the main screen, click “XPOS 72 / XPPC72 / XPPC 710Series”.



2. Click **VGA Driver**.



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

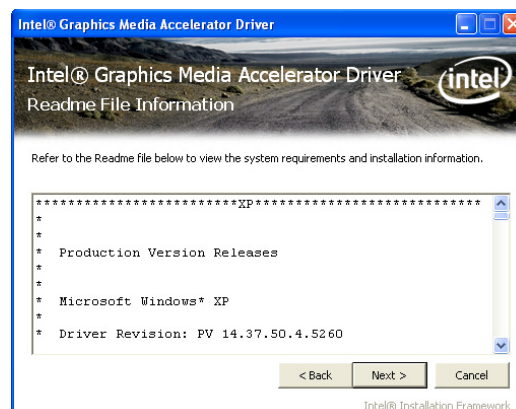


4. Click **Next**.

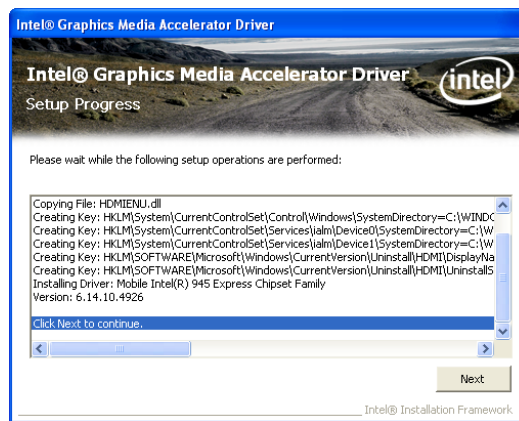
5. Read the License Agreement carefully and click **Yes**.



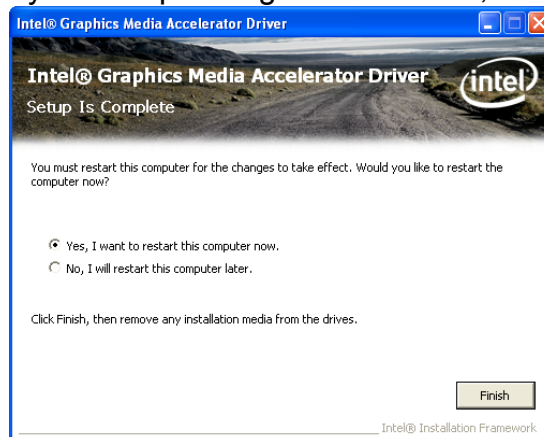
6. Click **Next**.



7. Click **Next**.



8. Select restart your computer right now or later, and then lick **Finish**.



2.4. Touch Screen Driver and Software Utility installation

1. On the main screen, click “**XPOS 72 / XPPC72 / XPPC 710Series**”.



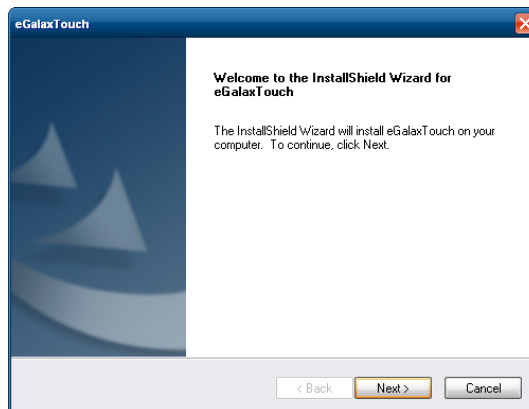
2. Click **Touch Panel Driver**.



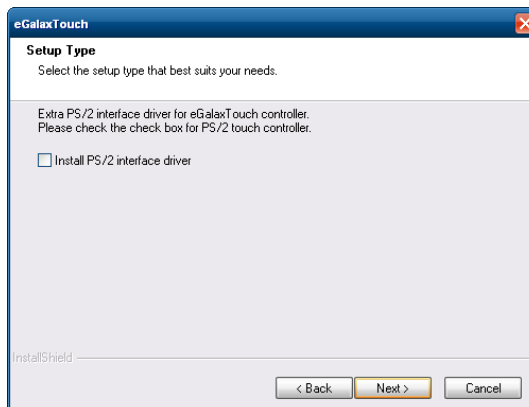
3. Click an item according to your needs. .



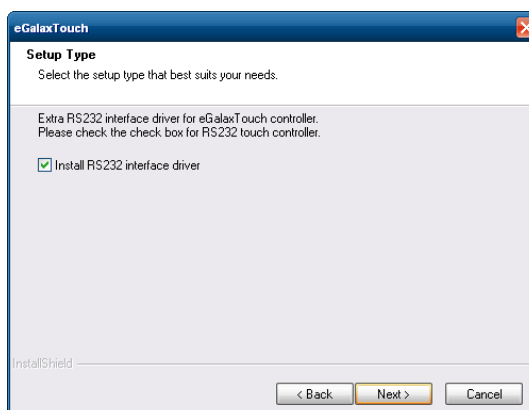
4. Click **Next**.



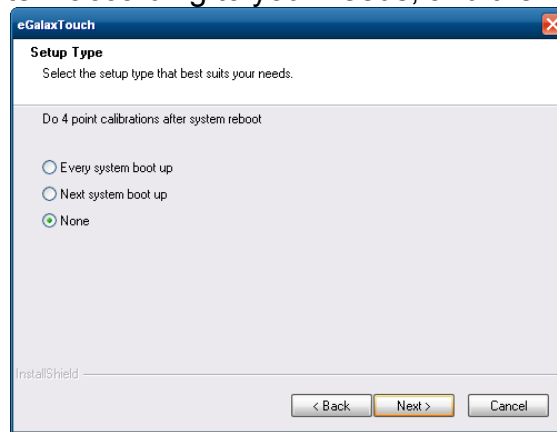
5. Click **Next**.



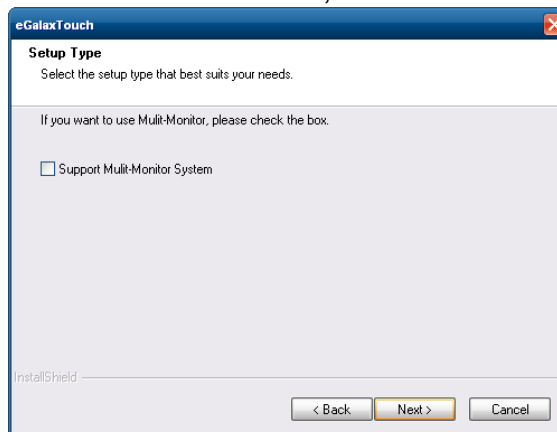
6. Check the Install PS/2 interface driver box and click **Next**.



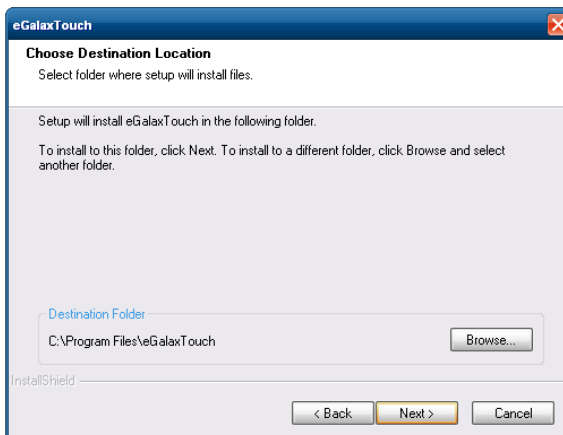
7. Select an item according to your needs, and then click **Next**.



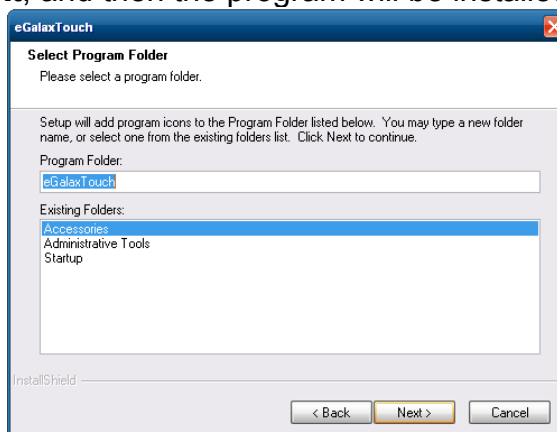
8. If you want to use Multi-Monitor, check the box and click **Next**.



9. Click **Next**.



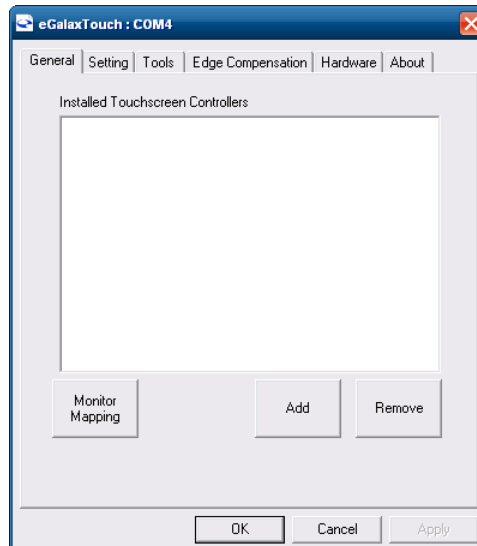
10. Click **Next**, and then the program will be installed automatically.



11. Under Microsoft Windows Embedded, click “**start**” menu and select “**All Programs**”, under “**eGalaxy Touch**” menu, click “**Configure Utility**”.



12. Under **General** tab, click Add, and then all controller will be detected and added.

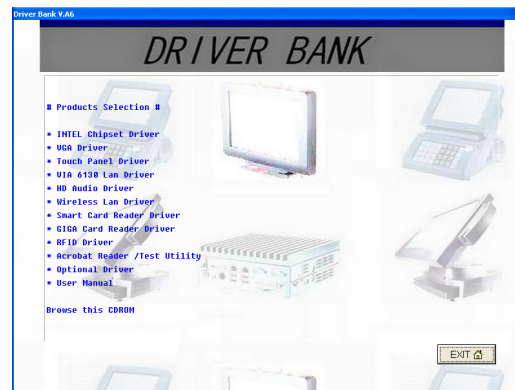


2.5. LAN Driver Installation

1. On the main screen, click “**XPOS 72 / XPPC72 / XPPC 710Series**”.



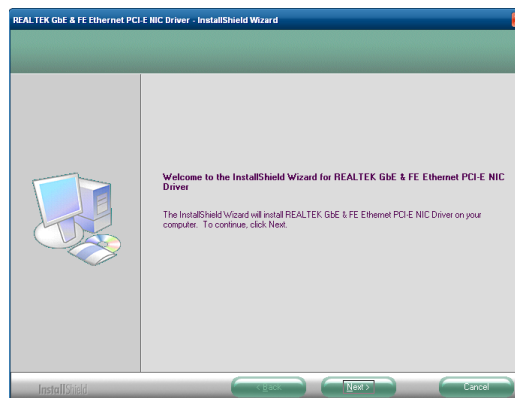
2. Click **RTL8111C LAN Drive**.



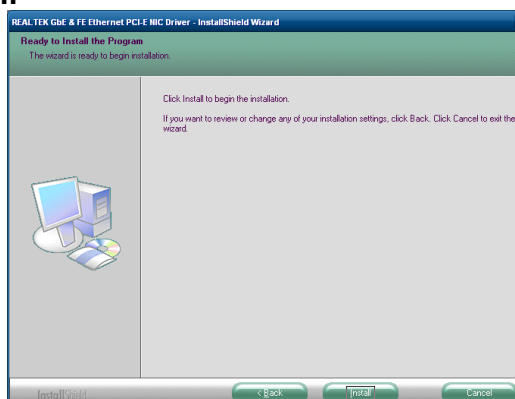
3. Click an item according to your needs. .



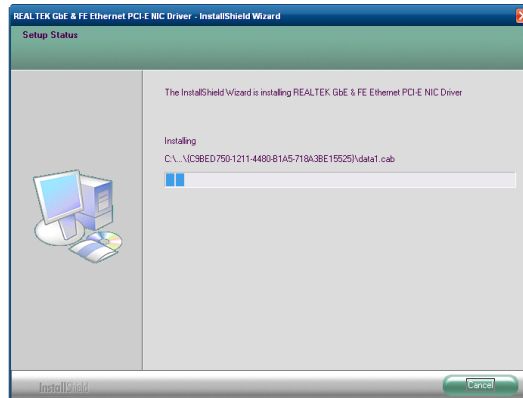
4. Click **Next**.



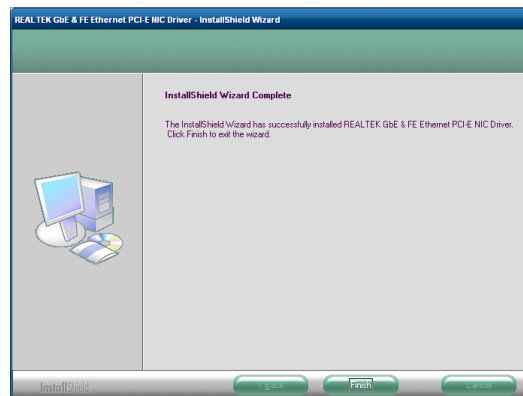
5. Click **Install**.



6. The driver will be installed automatically.



7. Click **Finish**.



2.6. Audio Driver Installation

1. On the main screen, click “**XPOS 72 / XPPC72 / XPPC 710Series**”.



2. Click **AC 97 Audio**.



3. Click an item according to your needs, and then the driver will be installed automatically.



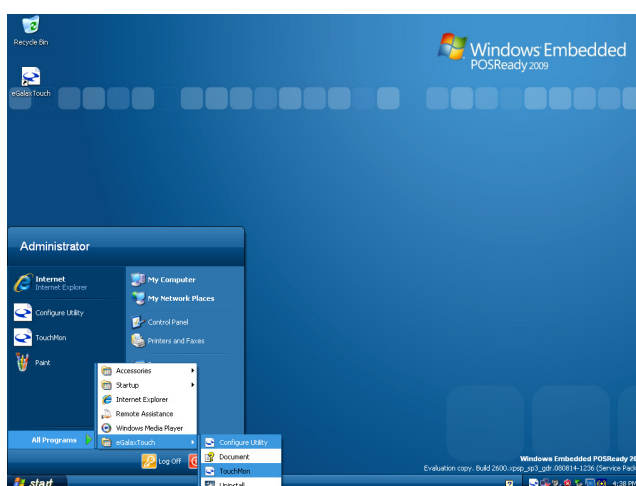
3.

eGalaxy Touch Control Utility Quick Guide

3.1. Launch eGalaxy Touch Control Utility

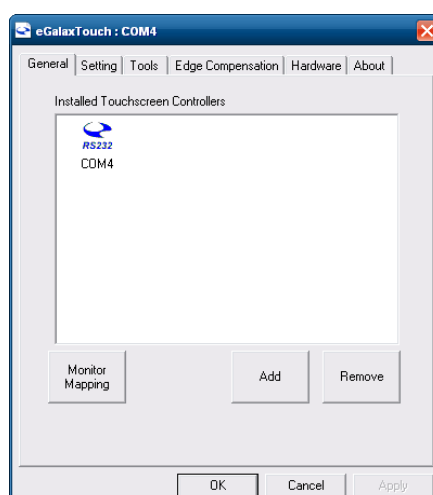
Option 1:

Under Microsoft Windows Embedded, click “**Start**” menu and select “**All Programs**”, under “**eGalaxy Touch**” menu, click “**TouchMon**”.



3.2. General

The **General** tab in **eGalaxy Touch** shows all of **TouchMon** touchscreen controllers installed as below, including RS232, USB and PS2 interfaces.



Add

The function button is used for serial RS232 controllers only. Press this button to search the **TouchMon** serial controllers connected with the COM ports of the device. Whenever it finds a new **TouchMon** serial controller, a new serial controller icon object will be shown in the controller list window automatically.

USB **TouchMon** device supports plug and play, the icon object for USB controller will be shown in the controller list window automatically when the USB controller is connected with the USB port of the device. And, the icon object for the USB controller will disappear automatically as soon as the device was removed from the USB port of the device.

TouchMon PS2 driver support PS2 mouse and **TouchMon** touchscreen controller. It can works with both PS2 mouse and **TouchMon** touchscreen PS2 controller. After the **TouchMon** PS2 driver was installed, this utility assumes the PS2 touchscreen controller exists and is always shown in the controller list window.

Remove

This function button is used for serial RS232 controllers only. This button will be grayed and disabled automatically when the selected controller in the controller list window is not RS232 type. Press to remove and uninstall the selected serial RS232 controller from the device. Then, this serial RS232 icon object in controller list window disappears automatically.

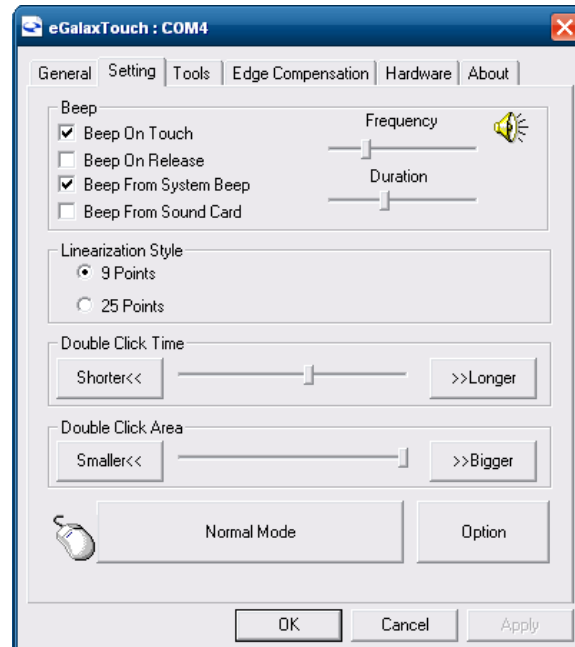
USB **TouchMon** device supports plug and play, the icon object for USB controller will be shown in the controller list window automatically when the USB controller is connected with the USB port of the device. And, the icon object for the USB controller will disappear automatically as soon as the device was removed from the system USB port.

TouchMon does not allow you to remove/uninstall the PS2 device driver dynamically. To uninstall the **TouchMon** PS2 driver, you need to go to Windows Device Manager to do un-installation. In addition, after PS2 un-installation, it needs to reboot the device to complete

un-installation.

3.3. Settings

There are function buttons and check boxes in the **Settings** tab.



Beep

Beep On Touch

Check this check box to enable driver to generate a beep sound when touch touchscreen state is switched from untouched to touched state.

Beep On Release

Check this check box to enable driver to generate a beep sound when touchecreen state is switched from touched state to untouched state.

Beep From System Beep

Check this check box to enable driver to generate a beep sound from the operation system.

Beep From Sound Card

Check this check box to enable driver to generate a beep sound from the sound card onboard.

Frequency

Drag the slider to adjust this frequency to control the beep sound frequency generated by the driver.

Duration

Drag the slider to adjust this duration to control the beep sound duration.

Linearization Style

TouchMon provides you with both 9 points and 25 points calibration for linearization. You can select the suitable linearization type.

Double Click Time

Double Click Time is used to set double click time. Change this value will affects the double click behavior for all of the mouse devices connected to the device. Two continuous clicks at the same area within this specified time period will be recognized as a double click event.

Double Click Area

Double click area is used to set the double click area. Change this value will affects the double click behavior for all of the mouse devices connected to the device. Two continuous clicks with this specified area in the specified double click time will be recognized as a double click event.

Mouse Emulation Mode

Change the emulation mode by pressing on this button.

Normal Mode

Normal mode behaves mouse button down and mouse move. You can select this mode to select object, and dragging the object.

Click On Touch

With this **Click On Touch** mode, the driver emulates a mouse click event when the touchscreen state was switched from un-touched state to touched state. Then, the driver always generate mouse move event and is tracking the touch position until the touchscreen state switched to un-touch state.

Click On Release

With this **Click On Release** mode, the driver emulates a mouse click event when the touchscreen state was switched from touched state to un-touched state.

Click On Touch without moving cursor

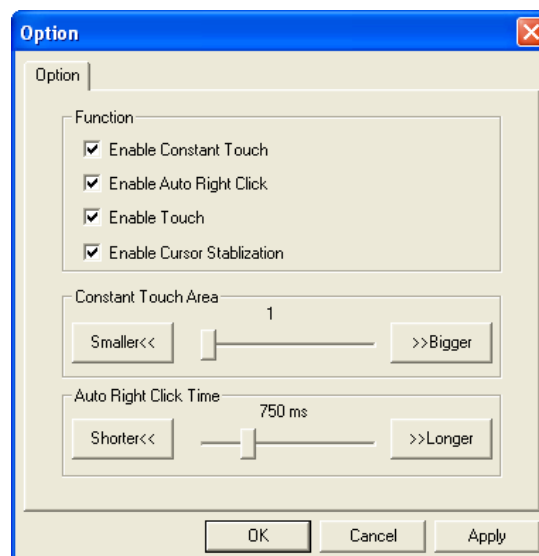
With this mode, the driver behaves similar as **Click On Touch** mode. The cursor does not move to the touch position except the first touch point.

Click On Release without moving cursor

With this mode, the driver behaves similar as **Click On Release** mode. The cursor does not move to the touch position except the lift-off point.

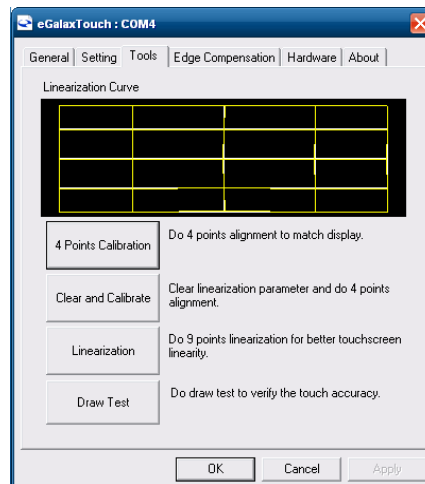
Option

You can set configuration for some advanced functions with this option button. Press this button, a pop up property sheet window will be popped up and shown as below.



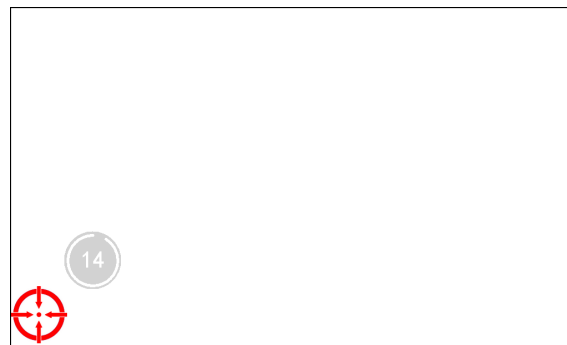
3.4. Tools

There are function buttons and check boxes in the **Tools** tab.



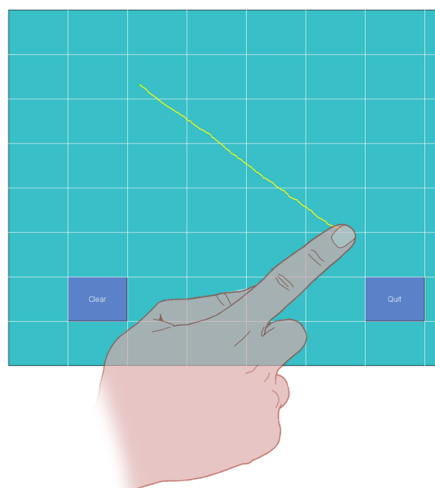
4 Points Calibration, Clear and Calibration, and Linearization button

Click the one of three these buttons and follow the instruction on the screen to do the screen calibration.



Draw Test

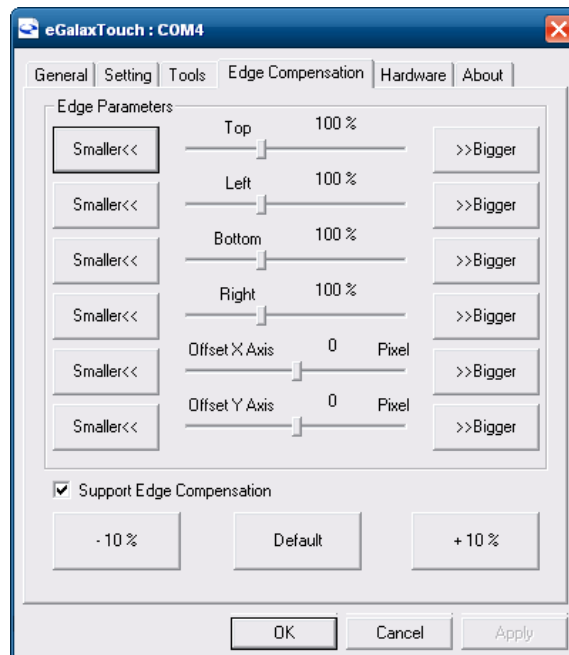
After clicking this button, you can do the drawing test by drawing any path on the screen as shown below.



You can remove all paths you drew by clicking **Clear**, or exit this screen by clicking **Quit**.

3.5. Edge Compensation

Edge Compensation property page contains functions of **Edge Compensation** for Top, Bottom, Left, Right, X Axis and Y Axis.



In some cases, if it is difficult to touch items at the edges of the touch panel, you can set adjustment to reach the edges of the screen image.

Top

If you set the Edge to "Smaller", **TouchMon** will reduce the horizontal position of the top edge. If you set the Edge to "Larger", **TouchMon** will extend the horizontal position of the top edge.

Bottom

If you set the Edge to "Smaller", **TouchMon** will reduce the horizontal position of the bottom edge. If you set the Edge to "Larger", **TouchMon** will extend the horizontal position of the bottom edge.

Left

If you set the Edge to "Smaller", **TouchMon** will reduce the vertical position of the right edge. If you set the Edge to "Larger", **TouchMon** will extend the vertical position of the left edge.

Right

If you set the Edge to "Smaller", **TouchMon** will reduce the vertical position of the right edge. If you set the Edge to "Larger", **TouchMon** will extend the vertical position of the right edge.

In some cases, cursor will be behind the finger when you touch the panel. If you can not see the cursor when you touch down the panel, you can set **X Axis** or **Y Axis** to move the cursor.

Offset X Axis

If you set the Offset X Axis to Smaller, cursor will be moved a pixel of X Axis to left.

If you set the Offset X Axis to Larger, cursor will be moved a pixel of X Axis to right.

Offset Y Axis

If you set the Offset Y Axis to Smaller, cursor will be moved a pixel of Y Axis to top.

If you set the Offset Y Axis to Larger, cursor will be moved a pixel of X Axis to bottom.

Edge Compensation Switch

You can check **Support Edge Compensation** check box to enable/disable this function from left corner.

Edge Compensation Button

Click **+10%** or **-10%** button to adjust the smaller or larger of edge.

If you click **+10%** button, the top, bottom, left and right edges will extend 10% of orientation to touch screen, and cursor will be moved 10 pixel of X and Y Axis to right and top.

If you click **-10%** button, the top, bottom , left and right edges will contract 10% of orientation to touch screen, and cursor will be moved 10 pixel of X and Y Axis to left and bottom.

Click **Default** button to resume to the default value.

I/O Definition

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

5.1. Power Connector



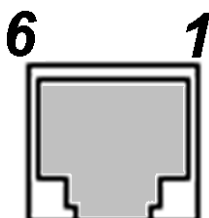
PIN	Description	PIN	Description
1	+12V	3	GROUND
2	+12V	4	GROUND

5.2. Serial Port



COM Port 1/2/3			
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

5.3. Cash Drawer



Connector

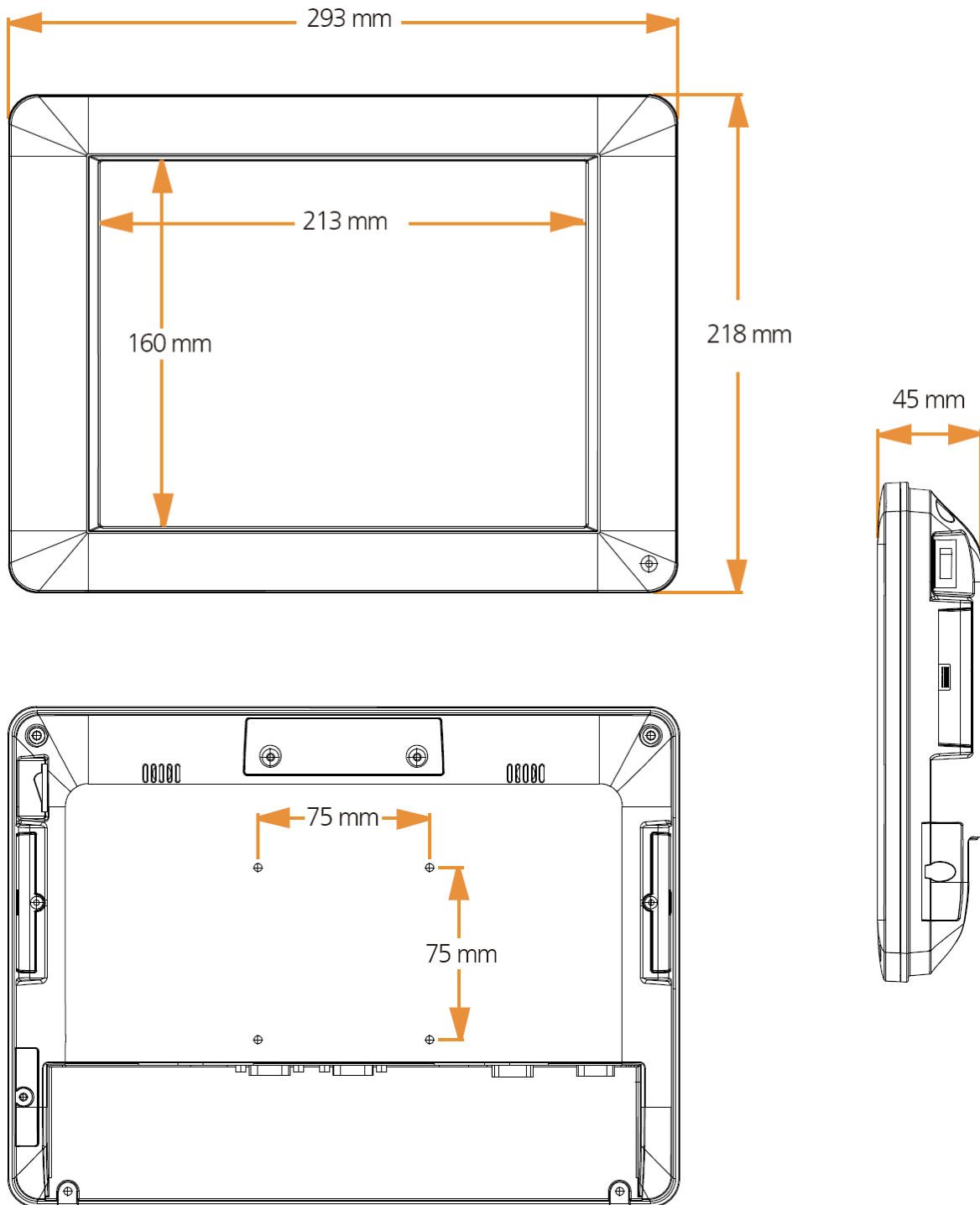
PIN	Description	PIN	Description
1	GND	4	D_IN
2	NC	5	D_OUT
3	VCC	6	GND

Cash Drawer Control

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

5.

Specification



Main Board	
CPU	Intel® Atom™ Processor N270 1.6GHz
Chipset	Intel® 945GSE / ICH7-M
System Memory	SO-DIMM DDR2, up to 2GB
Thermal Solution	Fan-less
OS	Windows® XP / XPe, WEPOS, WinCE*, POSReady, Vista ,Windows 7, Linux*
Display	
TFT LCD Size	10.4"
Brightness	300 nits
Resolution	1024 x 768
Touch Screen	5-wire Resistive Type
Storage Device	
DOM	1 x IDE
HDD	1 x 2.5" HDD Drive Bay
Compact Flash	1 x slot compact flash type II
I/O Ports	
Serial	4 x RS-232
	COM 1 : RS-232/422/485, DB-9, Pin9 w/ RI/5V/12V Selectable by BIOS
	COM 2 / 3 / 5 : RS-232, DB-9, Pin9 w/ RI/5V/12V Selectable by BIOS
USB	4 x USB 2.0
PS/2	Keyboard / Mouse 1 x Mini-DIN
LAN	1 x Gigabit Ethernet by RJ-45 , Support Wake on LAN
Cash Drawer	1 x RJ-11 (12VDC)
Audio	2W Speaker x 2
Others	
Wall mount	Support VESA Mount
Power Input	External adapter, 80 Watt, 12V DC input
Color	Black
Material	Plastic / Aluminum
EMC& Safety Compliance	FCC / CE / WEEE / RoHS / VCCI
Weight	2.7 Kgs
Dimension	293 W x 218 H x 45 D(mm)
Operating Temperature	0°C ~ 40°C
Storage Temperature	-20°C ~ 60°C
Humidity	20% - 80% RH, non-condensing