# **User's Manual**

XPOS75R-2B-2930 XPOS75R-2B-1900



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• 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

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

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# **Hardware Setup**

**1.1. Quick Tour** Front View



#### **LED Indicator**

X	The <b>Power</b> indicator will glow green when power is on.
0	The <b>HDD</b> indicator will blink green when the HDD is accessed.
<u>Å</u>	The LAN indicator will blink green when transferring data though the LAN.

**Back View** 





## **1.2. Basic Peripherals Installation**

All cables and wires from peripherals to the POS device are recommended to connected as the direction as shown below.



#### **Power Adapter**

Connect the 2-pin output jack of the adapter to the **DC 12V** 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.



# 1.3. Adjust Angle



#### 1.4. 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.



# **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 auto runs and displays the **DRIVER BANK** screen.

2. Follow the on-screen instructions.

Before install OS, enter BIOS setup menu and change setting as following:

System default is for Windows 7, if your system is installed Windows 8 OS, BIOS setup must select "**Windows 8.X**"

	Phoenix SecureCore Technolog	ny Setup
navanced URberg	s Security Boot Exit	
Setup Varning: Setting items on this screen values may cause system to m Select Language Uncore Configuration > Power Management Setting > South Clusters Configuration	to incorrect alfunction1 (English)	Item Specific Help OS Selection
<ul> <li>Security Configuration</li> <li>SHBIOS Event Log</li> <li>OS Selection</li> </ul>		
	Unindes 0 / Unindes?	
F1 Esc	Help 14 Select Item +/- Change Value Exit ↔ Select Menu Enter Select > Sub	5 P9 Setup Defaults -Benu P10 Save and Exit

#### 2.2. Chipset Software Installation

1. On the main screen, click "XPOS 722 Series(X7C)".



2. Click INTEL Chipset Driver.



3. Click Next.



4. Read the License Agreement carefully and click Yes.



5. Click Next.



6. Click Finish.



7. Please Restart.

#### 2.3. VGA Driver Installation

1. On the main screen, click "XPOS 725 Series(X7C)".



2. Click VGA Driver.



3. Click VGA Driver for WIN8/WIN7.



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. Install USB 3.0 Driver should do step.

Follow below steps to setting USB Configuration, EHCI enable, XHCI Smart Auto.

Step 1. Enter "Advanced" Tab.

Select "South Cluster Configuration".



Step 2. Select "USB Configuration".

Phoenix SecureCore Technolog	ny Setup
South Cluster Configuration	Item Specific Help
• PCI Express Configuration • Use Configuration • SHTD Drives • Miscellaneous Configuration	ISB Configuration Settings
11 Holy 11 Select How y/- Obiege Union For Fait += Select Form Enter Select + Sub	s 12 Setup Defaults Rem: FD Save and Exit

<u>Step 3</u>. Setting **xHCI Mode** → Smart Auto



Step 4. To install USB 3.0 driver at Windows 7.

After installation of Windows 7 USB 3.0 driver, reboot and enter BIOS setup menu to change following setting to make USB 3.0 driver with xHCI Mode effect.

Enter "Advanced" Tab, select "South Cluster Configuration", select "USB Configuration".



<u>Step 5</u>. Setting EHCI Controller → Disable

#### <u>Step 6</u>. Setting **xHCI Mode** → Enable



# 2.5. Install USB 3.0 Driver at POS Ready 7 or Windows 7 BIOS setting.

Install Windows OPK.

Install USB 3.0 driver at POSReady 7 DVD "sources" folder boot.wim.

Dism /mount-wim /wimfile:f:\sources\boot.wim /mountdir:e:\winpeusb30 /index:1

Tips:

/wimfile:f:\sources\boot.wim -> this is the POSReady 7 DVD "sources" folder file name "boot.wim"

/mountdir:e:\winpeusb30 -> this the temporarily folder. It could be drive c, or drive d, as you create and naming it.

/index:1

->this always be 1.



Dism /image:e:\winpeusb30 /add-driver /driver:f:\test\setupusb3\drivers /recurse

Tips:

/image:e:\winpeusb30 -> this the temporarily folder. You create it. /driver:f:\test\setupusb3\drivers ->this is the USB 3.0 driver folder

Administrator: C:\Windows\System32\cmd.exe			X
E:\}dism /image:e:\winpeusb30 /add-driver /driver:f:\test\setupusb3\drivers /recurse			
Deployment Image Servicing and Management tool Version: 6.1.7600.16385			
Image Version: 6.1.7600.16385			
Searching for driver packages to install Found 6 driver package(s) to install. Installing 1 of 6 - f:\test\setupusb3\drivers\HCSwitch\Win7\x64\iusb3hcs.inf: The driver package was successfully Installing 2 of 6 - f:\test\setupusb3\drivers\HCSwitch\Win7\x64\iusb3hcs.inf: The driver package was successfully Installing 3 of 6 - f:\test\setupusb3\drivers\HCSWitch\Win7\x64\iusb3hcs.inf: The driver package was successfully Installing 4 of 6 - f:\test\setupusb3\drivers\HCI\Win7\x64\iusb3hcs.inf: The driver package was successfully Installing 5 of 6 - f:\test\setupusb3\drivers\HCI\Win7\x64\iusb3hc.inf: The driver package was successfully inst Installing 5 of 6 - f:\test\setupusb3\drivers\HCI\Win7\x86\iusb3hc.inf: The driver package was successfully inst Installing 5 of 6 - f:\test\setupusb3\drivers\HCI\Win7\x86\iusb3hc.inf: The driver package was successfully inst Installing 5 of 6 - f:\test\setupusb3\drivers\HCI\Win7\x86\iusb3hc.inf: The driver package was successfully inst Installing 6 of 6 - f:\test\setupusb3\drivers\HCI\Win7\x86\iusb3hc.inf: The driver package was successfully inst Installing 6 of 6 - f:\test\setupusb3\drivers\HCI\Win7\x86\iusb3hc.inf: The driver package was successfully inst Installing 6 of 6 - f:\test\setupusb3\drivers\HCI\Win7\x86\iusb3hc.inf: The driver package was successfully inst The operation completed successfully. E:\>	insta alleo alleo alleo alleo	alle alle d. d. d.	:d.
I			×.

Dism /unmount-wim /mountdir:e:\winpeusb30 /commit /mountdir:e:\winpeusb30 ->/image:e:\winpeusb30 -> this the temporarily folder. You create it.

Administrator: C:\Windows\System32\cmd.exe	X
E:\>dism /unmount-wim /mountdir:e:\winpeusb30 /commit	*
Deployment Image Servicing and Management tool Version: 6.1.7600.16385	
Image File : f:\sources\boot.vim Image Index : 1 Saving image [========] Unmounting image [====================================	
E:\>	
( W	<b>۲</b>

During install the POSReady 7, there will have a install additional driver option.

Please select it and install additional USB 3.0 driver.

Or follow the above step to install USB 3.0 at POSReady 7 DVD "sources" folder file name "install.wim".

#### 2.6. LAN Driver Installation

1. On the main screen, click "XPOS 725 Series(X7C)".

	DRIVER BANK
1	<pre># Products Selection #  ( KP05/KPFC: 700/710/722/752 Series(160) &gt;  ( KP05/KPFC: 710/722/752 Series(1770) &gt;  ( KP05/KPFC: 155/255/755 Series(1770) &gt;  ( KP05/KPFC: 55/255/755 Series(1826) &gt;  ( KP05/KPFC: 55/255/755 Series(1826) &gt;  ( B05/FC8 Series(</pre>
	(RIT ()

2. On the welcome screen, click Next.



3. Click Install to begin the installation.



4. Click Finish.



#### 2.7. GPIO Driver Installation for Win 8.1 64bit

If you want to GPIO Function, BIOS must set "Windows 8.X" work and o.s. must "Win 8.1"

1. BIOS must set "Windows 8.X".



2. Select "Exit Saving Changes" and Restart.

Rela ministers	Results Secondary Technology	y Sitty
Para Anting Owners	And	I ten Specific Help Tan Specifi
	<ol> <li>Help Hi Select Henr 2/- Ounge Union Do. Exit ↔ Select Henri Enter Select + Sel</li> </ol>	s 19 Setup Befaults from 170 Save and Exit

3. On the main screen, click "XPOS 725 Series(X7C)".



4. Click GPIO Driver. (There are two installation steps)





3. Setup1: Click Next.



4. Click Yes.



#### 5. Click Next

Intel® Installation Framework	
Intel(R) Sideband Fabric Device Driver Setup Progress	intel
Installing Driver: Intel(R) Sideband Fabric Device Version: 001.070.305.16316	Nevts
Ir	itel® Installation Framewor

#### 6. Click Finish.



7. Setup2: Open The Device Manager screen, select Unknown device.

4	Device Manager	- • • ×
File Action View Help		
**	履   登 <b>乘</b> 昭	
a 📸 Test		^
Audio inputs and out	puts	
Disk deises		
Disk drives		
Display adapters	izer	
DE ATA/ATABI contr	oller	
A C Keyboards		
A Mice and other point	ing devices	
Monitors		
Network adapters		
a 🖗 Other devices		
PCI Encryption/D	ecryption Controller	
Unknown device		
Portable Devices		
Ports (COM & LPT)		
> m Print queues		
Processors		
D SD host adapters		
Sound, video and gar	ne controllers	
Storage controllers		
a 🛤 System devices		
ACPI Fan		
ACPI Fixed Featur	e Button	
ACPI Power Butto	n	

#### 8. Select Properties

2		Device Manager	- 0
de Action View Hel	lp.		
a ab lan l El El m	1 40 1 19 AL 40		
I and	11 14 1 24 14 10		
a 📠 Test			
Audio inputs and Audio inputs and Audio inputs	i outputs		
p 1 Computer			
Disk drives			
Display adapters			
P The Human Interface	Devices		
DE ATA/ATAPE C	ontrollers		
Keyboards			
Mice and other p	ointing devices		
> Monitors			
> Y reetwork adapter	R.		
* IB Other devices			
PCI Encryptio	in Decryption Controller		
Destable David	Undate Driver Software		
100 Deute (COBA &	Dushia		
Ports (com o	Unsagene		
Processors	Uninstall		
SD host adapte	Scan for hardware changes		
El Sensors	land and a second s		
Software devic	Properties		
5 4 Sound, video and	d game controllers		
<ul> <li>Ø- Storage controlle</li> </ul>	**5		
a 1 System devices			
ACPI Fan			
ACPI Fixed Fe	sture Button		
ACPI Power B	Autton		
ACPI Sleep Bu	utton		
📲 ACPI Therma	Zone		
📲 Composite Bi	us Enumerator		
👰 Generic Bus			
GPIO Control	ler		
( GPIO Control	ler		
GPIO Control	ler		
	on Audio Controller		

9. Click Next



#### 2.8. GPIO Driver Installation for Win 8.1 32bit

1. On the main screen, click "XPOS 725 Series(X7C)".



#### 2. Click GPIO Driver.





3. Click Next.



4. Click Yes.



5. Click Next.



#### 6. Click Finish.



#### **2.9. TXE Driver Installation**

1. On the main screen, click "XPOS 725 Series(X7C)".

# Products Selection #
( YDDS/YDDC+ 788/718/722/752 Series/016) )
<pre>&lt; XPOS/XPPC: 710/722/752 Series(X7C) &gt;</pre>
< XPOS/XPPC: 715/725/755 Series(X7C) >
<pre>&lt; XPOS/XPPC: 852/854/855 Series(BX8A) &gt;</pre>
< XPOS/XPPC: 854/855/857 Series(X8C) >
< XPOS/XPPC: 950/954/955/956 Series(BXA) >
< BOXPC95 Series(BXA) >
< BOXPC82 Series(BX8A) >
< BOXPC82 Series(X8C) >
< BUXSTERS Series(N/C) >
( BOXSTERS SERIES (ABC) >
( POS68 Series )
< TM/WTM: 520/550 Series >

2. Click TXE Driver.



3. Click Next.



#### 4. Click Next.

Setup	×	
Intel® Trusted Execution Engine License Agreement		
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)	^	
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING. Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.	l	
Please Also Note: * If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV), or Independent Software Vendor (ISV), this complete LICENSE AGREEMENT applies; * If you are an End-User, then only Exhibit A, the INTEL SOFTWARE LICENSE AGREEMENT, applies.		
For OEMs, IHVs, and ISVs:		
LICENSE. This Software is licensed for use only in conjunction with Intel component products. Use of the Software in conjunction with non-Intel component products is not licensed		
I accept the terms in the License Agreement.		
Intel Corporation < <u>Back</u> <u>Next</u> > <u>Ca</u>	ncel	

5. Click **Next** to begin the installation.





#### 6. Click Finish.

Setup			×
Intel® Trusted Execution Engine Completion		(intel)	
You have successfully installed the following product: Intel® Trusted Execution Engine			
Click <u>here</u> to open log file location.			
Intel Corporation	< <u>B</u> ack	<u>N</u> ext >	Einish

# **TouchKit Utility Quick Guide**

# 3.1. Launch TouchKit Utility

There are two alternatives to launch TouchKit.

#### Option 1:

Under Microsoft Windows 7, click "start" menu and select "Programs", under "TouchKit" menu, click "Configure Utility".

#### Option 2:

Click 🗟 icon on the task bar to launch TouchKit utility.



## 3.2. General

The **General** tab in **Touchkit utility** shows all of **TouchKit** 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 **TouchKit** serial controllers connected with the COM ports of the device. Whenever it finds a new **TouchKit** serial controller, a new serial controller icon object will be shown in the controller list window automatically.

USB **TouchKit** 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.

**TouchKit** PS2 driver support PS2 mouse and **TouchKit** touchscreen controller. It can works with both PS2 mouse and **TouchKit** touchscreen PS2 controller. After the **TouchKit** 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 TouchKit 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.

**TouchKit** utility does not allow you to remove/uninstall the PS2 device driver dynamically. To uninstall the **TouchKit** PS2 driver, You needs 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.

Edge Compen	sation	Hardware	About
General	Setting	Tools	Display
Веер			N.
Beep On Tou	ch	Freque	ncy 📢 🗧
Beep On Rele	ease		
Beep From Sy	stem Beep	Duratio	n
Beep From So	ound Card		
Linearization Styl	e		
9 Points			
C 25 Points			
Double Click Tim	e		
Shorter<<			>>Longer
Double Click Are	a		
Smaller<<		]	>> <mark>B</mark> igger
õ	Normal Mode		Option

#### 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.

#### 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**

**TouchKit** utility 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.

Option	×
Option	
Function         Image: Enable Constant Touch         Image: Enable Auto Right Click         Image: Enable Touch         Image: Enable Cursor Stabilization         Constant Touch Area         G         Smaller         Image: Enable Cursor Stabilization	
Auto Right Click Time 1000 ms Shorter<< >>Longer	
OK Cancel App	ly

# 3.4. Display

**TouchKit** driver utility supports multiple monitor and display system. To work with multiple monitor system, you need to do proper configuration to map the touchscreen working area to the correct system display area. You can do such configuration with this property page shown as below,

eGa	laxTouch : USB Co	ontroller		×
Edge Compensatio	on Hardwa Setting To	are   pols	About Display	
Display				
Double click on the r	nonitor area to map the	touchscreen to	the display	
Map to main disp	/lonitors. lav if svstem has onlv or	ne displav mon	tor.	
Operation Mode	C Lower Screen	C Left Sc	reen	
C Upper Screen	C Right Screen		Other	
	ОК	Cancel		

Please follow below instructions to do the configuration:

#### Enable multiple monitor

Check this check box to enable multiple monitor support and uncheck it to disable multiple monitor support. When this function is disabled, the touchscreen will be mapped to the primary monitor automatically.

When this function is enabled, user can double click on the monitor area in the monitor geometry window to assign the monitor area where the touchscreen will be mapped. In other word, the touchscreen will work with the selected monitor. Then, the selected monitor area rectangle line will be changed to be white and the other monitor rectangles line will be grey.

#### Map to main monitor when the system has only one monitor

When the multiple monitor function was enabled, and the system has only one monitor.

Driver allows user to generate the mouse event for the primary monitor or not when the touchscreen which were not mapped to primary monitor. Check the check box to enable this function, then, the driver will generate the mouse event for the primary monitor even through the touchscreen was configured as other monitor mapping and multiple monitor function enabled.

#### **Operation Mode**

**TouchKit** driver support split display mode for those applications which do not map the touchscreen to the full screen of the monitor.

#### Full screen

The touchscreen will be mapped to the full screen of the specified monitor.

#### **Right screen**

The touchscreen will be mapped to the right half screen of the specified monitor.

#### Left screen

The touchscreen will be mapped to the left half screen of the specified monitor.

#### **Upper screen**

The touchscreen will be mapped to the upper half screen of the specified monitor.

#### Lower screen

The touchscreen will be mapped to the lower half screen of the specified monitor.

#### Other operation mode Quarter 1

The touchscreen will be mapped to the first quarter area of the specified monitor display.

#### Quarter 2

The touchscreen will be mapped to the 2nd quarter area of the specified monitor display.

#### Quarter 3

The touchscreen will be mapped to the 3rd quarter area of the specified monitor display.

#### Quarter 4

The touchscreen will be mapped to the 4th quarter area of the specified monitor display.

#### Customized

If the touchscreen needs to be mapped the area other than the above area, user can define the mapping area for application. With this mode, the driver does not correct the mapping area when the display resolution changed. It needs to do configuration setting again whenever the display resolution changed.

# 3.5. Edge Compensation

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

2	eGalaxTouch	: USB Controlle	r 💌
General Edge Compe	Setting	Tools Hardware	Display About
Edge Paramete	Top	100 %	>>Pingor
Smaller<<	Left	100 %	>>Bigger
Smaller<<	Bottom	100 %	>>Bigger
Smaller<<	Right	100 %	>>Bigger
Smaller<<	Offset X Axis	0 Pixel	>>Bigger
Smaller<<	Offset Y Axis	0 Pixel	>>Bigger
Support Edg	ge Compensation		
- 10 %	D	efault	+ 10 %
	0	K Cancel	Apply

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.

#### Тор

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

#### Bottom

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

#### Left

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

#### Right

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

#### 3.6. How to Use Event Selector

- 1. On the desktop of Windows, click
  - . Vicon 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.

# I/O Definition

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

# 4.1. Serial Port



	COM	Port	
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
PIN	R232	RS422	RS485
1	DCD	TX-	D-
2	RXD	TX+	D+
3	TXD	RX+	
4	DTR	RX-	

# 4.2. Cash Drawer



**RJ12** 

PIN	Description	PIN	Description
1	GND	4	24V/12V
2	D_OUT0	5	N/C
3	D_IN	6	GND

# Cash Drawer Control

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

# **Specification**





Chapter 5

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± 0.25

Main Board	
CPU	Intel® Bay Trail-Mobile/Desktop SoC Processor: Celeron® N2930 (4 cores, up to 2.16 GHz, max TDP 7.5 Watt) Celeron® J1900 (4 cores, up to 2.42 GHz, max TDP 10 Watt)
Chipset	Intel® HD Graphics
System Memory	1 x SO-DIMM DDR3L 1067/1333MHz, Max. 8GB
Thermal Solution	Fan-less
BIOS	Phoenix uEFI BIOS
OS	Windows 7, WES 7, POSReady 7 Windows 8, Windows Embedded 8 Standard/Industry Retail
Display	
LCD size	12" TFT LCD Panel (LED Backlight)
Brightness	500 nits
Resolution	1024*768
Panel backlight type	LED
Tilt Angle	17°~67°
Touch Screen	5 wire resistive type
Storage Device	
Interface	2 x SATA (3.0Gb/S)
HDD / SSD	1 x 2.5" SATA HDD / SSD 1 x mSATA slot
I/O Ports	
Serial	4 x RS-232, pin9 with RI/5V/12V selectable by BIOS COM 1 / 2 : RS232, RJ50 COM 3 : RS232/422/485, DB9 COM 4 : RS232, DB9
USB	4x USB 2.0 1x USB 3.0
LAN	1 x Gigabit Ethernet by RJ-45, support Wake on LAN
Cash Drawer	1x RJ12, support 12V / 24V DC cash drawer
Audio	2 Watt Speaker x 2
VGA	1 x DB15 optional for replace COM4
DP / HDMI	1x mini Display Port (supporting active converter cable to VGA, DVI, HDMI)
DC-in	1x 19VDC input, 2pins jack
DC-out	1x 12VDC/1A output
Others	
Expansion Slot	1 x half size Mini PCIe
Communication	Wireless LAN module, half size mini PCIe type (Optional)
Wall mount	Support VESA Mount
Power Supply	External adapter, 19V DC input, 65Watt/ 90Watt optional
Color	Black

Material	Plastic / Aluminum
EMC & Safety	
Compliance	CE/FCC/WEEE/R013
Dimension	313 mm x 216 mm x 311 mm (W x D x H)
Weight	5.5 kg
Environmental	
Operating Temperature	0 to 40°C
Storage Temperature	-20~ 60°C
Humidity	20% to 85% RH (non condensing)