

WP-75XX Series

Bezel Free All-in-One Modular Wall-Mount POS System



User Manual

Before installing and operating the unit, please read this user manual thoroughly and retain for reference.

Ver 2.1_2013/07/26

How to Use This Manual

This manual contains information to set up and use the WP-75XX. In addition, instructions are included for added hardware, software, upgrades, and optional items.

- **Chapter 1** An introduction to what you find in the box and an overview of product specifications, appearance, and interface.
- **Chapter 2** Detailed installation information for the base unit and upgrades, including the HDD, and main memory.
- **Chapter 3** Mounting procedures for optional devices, such as MSR, Fingerprint, I-Button, IC Card, WiFi, Bluetooth, RFID, scanner, rear mount VFD, and swing arm kit.
- **Chapter 4** PEB-973J and PEB-973L main board diagrams, locations of jumpers, and connectors.
- **Chapter 5** Installation instructions for the Intel chip set driver, video driver, touch screen tools, audio, LAN, RFID, Fingerprint, IC Card, AdvanPOS system and OPOS drivers.

\wedge	WARNING!	Text set off in this manner indicates that failure to follow directions could result in bodily harm or loss of life.
\triangle	CAUTION:	Text set off in this manner indicates that failure to follow directions could result in damage to equipment or loss of information.
ÿ	NOTE:	Text set off in this manner provides important supplemental information.

Federal Communications Commission (FCC) Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the 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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE: Shielded interconnect cables and shielded AC power cables must be employed with this equipment to insure compliance with pertinent RF emission limits governing this device. Changes or modifications not expressly approved by the system's manufacturer could void the user's authority to operate the equipment.

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

- 1. This device may not cause harmful interference.
- 2. This device must accept any interference received, including interference that may cause undesired operation.

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Patents and Trademarks

AdvanPOS trademark:

Certificate No.: 01328466 (ROC patent) Patents pending (European Union, Mainland China, and USA)

Precautions

- 1. Please read these safety instructions carefully.
- 2. Keep this User Manual for later reference.
- 3. Disconnect this equipment from the AC outlet before cleaning. Do not use liquid or spray detergent for cleaning. Use only a moistened sheet or cloth.
- 4. For pluggable equipment, the socket outlet should be installed near the equipment and should be easily accessible.
- 5. Avoid humidity and moisture.
- 6. Install equipment on a stable surface.
- 7. Do not leave this equipment running in an enclosed or non-air-circulated environment, nor store in temperatures above 60°C. Such conditions may damage the equipment.
- 8. Ventilation openings on the unit are for air circulation and protect the equipment from overheating. DO NOT COVER THE OPENINGS.
- 9. Check the voltage of the power source before connecting the equipment to the power outlet.
- 10. Place the power cord so that it will not be stepped on. Do not place anything over the power cord. The power cord must be rated for the product and for the voltage and current marked on the product's electrical ratings label. The voltage and current rating of the cord should be greater than the voltage and current rating marked on the product.
- 11. All cautions and warnings on the equipment should be noted.
- 12. If the equipment is not used for a long time, disconnect the equipment from the power outlet to avoid damage.
- 13. Never allow any liquid into ventilation openings. This could cause fire or electrical shock.
- 14. Never open the equipment. For safety reasons, qualified service personnel should only open the equipment.
- 15. If one of the following situations may arise, get the equipment checked by qualified service personnel:
 - a. The power cord or plug is damaged.
 - b. Liquid has penetrated the equipment.
 - c. The equipment has been exposed to moisture.
 - d. The equipment does not work well or you cannot get it work according to the user manual.
 - e. The equipment has been dropped and damaged.
 - f. The equipment has obvious signs of damage.

WARNING!

Not intended for outdoor use.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with same type, and discard used batteries according to manufacturer's instructions.

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Chapter 1 Introduction

Features

- 15" TFT LCD with Bezel Free Resistive or P-CAP touch(optional)
- Fanless operation with Intel[®] Luna Pier D525 1.8GHz, Intel[®] Cedar Trail Processor D2550 1.86 GHz or Intel[®] IVY Bridge Series Processor
- Support High Graphic Performance Direct 10.1, OpenGL 3.0 with Lower Power Consumption
- Aluminum Die-casting and Plastic Housing
- System Memory up to 4GB DDRIII SDRAM for WP-75XX-XX10/XX40 series, up to 8GB DDRIII SDRAM for WP-75XX-XX20/XX30/XX50/XX60 series
- Integrated stereo 2W+2W syste speaker
- 3 Mounting Options Available
- Support 12V and 24V powered USB Ports for WP-75XX-XX10/XX20/XX30 series
- 6 x COM, 10 x USB(11 x USB for WP-75XX-XX30/60 series), 1 x HDMI, 1 x Gigabit LAN, 1 x VGA and 1 x Half Size SSD Module
- Flexible options: MSR, I-Button, Fingerprint, RFID and IC Card Reader
- Support 12V/24V Selectable Cash Drawer Ports (via External Switch) except WP-75XX-XX40/50 series
- RoHS compliant

System Configuration	WP-75XX-XX10/40	WP-75XX-XX20/50	WP-75XX-XX30/60	
CPU	Intel [®] Cedar Trail Processor D2550 1.86GHz	Intel [®] Luna Pier D525 1.8GHz	Intel [®] IVY Bridge Processor Celeron / i3 / i5 / i7	
System Chipset	Intel D2550 with NM10	Intel D525 with ICH8M	Intel [®] QM77 (IVY Bridge)	
System Memory	Supports maximum 1 x 4GB DDRIII SDRAM	Supports maximum 2 x 4GB DDRIII SDRAM for	Supports maximum 2 x 4GB DDRIII SDRAM	
Video Memory	Supports Intel DVMT technology			
SSD	Supports 1 x Half size SSD module			
HDD	1 x internal 2.5" SATA HDD bay			
Power Supply	150W 12Vdc power adapter for WP-75XX- XX10 max. 150W 60W 12Vdc power adapter for WP-75XX- XX40 max. 60W	150W 12Vdc power adapter for WP-75XX- XX20 max. 150W 60W 12Vdc power adapter for WP-75XX- XX50 max. 60W	120W 19Vdc power adapter for WP-75XX- XX30 max. 120W 90W 19Vdc power adapter for WP-75XX- XX60 max. 90W	
OS Support	Windows [®] XP Pro Embedded / WEPOS [®] / Windows [®] POS Ready 2009 / Windows [®] 7 Pro Embedded / Linux [®]			
LCD Touch Panel				
Resolution Size	15" TFT LCD / 1280 x 102	4		

Specifications

Brightness	250cd/m ²					
Touch Screen Type	Bezel free ELO resistive touch(Default)					
	Bezel free P-CAP touch(Option)					
I/O Ports	XX10/20			WP-75XX-XX60		
USB Ports	6 x External: 4 normal, 1 x 12V 1.5A power USB, 1 X 24V 2.5A power USB 4 x Internal USB (for Fingerprint, IC card reader)	6 x External: 6 normal 4 x Internal USB (for Fingerprint, IC card reader)	6 x External: 2 x USB2.0, 2 x USB3.0, 1 x 12V 1.5A power USB, 1 X 24V 2.5A power USB 5 x Internal USB (for Fingerprint, IC card reader) (3 x reserve)	6 x external: 4 x USB2.0, 2 x USB3.0 5 x Internal USB (for Fingerprint, IC card reader) (3 x reserve)		
Serial Ports	3 x External: COM1, COM2 (RS232 with RJ-45 CON.), COM5 (RS232 / RS422 / RS485 with RJ-45 CON.) 3 x Internal : COM3 (T/S) ,COM4 (VFD), COM6 (reserve)					
HDMI Port	Support VGA port & Support HDMI port except WP-75XX-XX20					
Ethernel Port	1 x RJ-45 Gigabit E	1 x RJ-45 Gigabit Ethernet(10/100/1000)				
Audio	1 x Line out(Integr	1 x Line out(Integrated stereo 2W+2W speaker)				
Cash drawer	RJ-11(12V(default)/24V, 1 connector control 2 cash drawer)					
Mechanics	Stand ba	Stand base type		Wall mount type		
Dimensions	211(D) x 365(W) x	211(D) x 365(W) x 326(H) mm		59(D) x 365(W) x 279(H) mm		
Net Gross Weight	6 Кд		4.5 Kg			
Construction	Aluminum Die-casting and plastic housing					
Housing Color	Black					
Environment						
Operating Temperature	0 °C ~ 40 °C					
IP Certification	IP65 sealed front panel with touch screen for WP-7550-XXXXW					
EMI/Safety	CE, FCC, RoHS					

Package Contents

POS System	Parter Parter Parter Parter <td< th=""><th>AC Power Cord</th><th></th></td<>	AC Power Cord	
Utility and Main Board Chipset Driver CD	Driver Well Mount POS series	Wall Mount Swing Arm Kit (optional)	

Options

- Magnetic Stripe Reader (MSR) Module: triple track
- 2-in-1 Module (Magnetic Stripe Reader + Fingerprint Reader)
- 2-in-1 Module (Magnetic Stripe Reader + I-Button Reader)
- 2-in-1 Module (Magnetic Stripe Reader + IC Card Reader)
- 2-in-1 Module (Magnetic Stripe Reader + RFID)
- 3-in-1 Module (Magnetic Stripe Reader + I-Button Reader + IC card reader)
- VFD Customer Display: 9 mm height, 2 lines 20 characters each (rear mount type)
- Wall Mount Swing Arm Kit
- Stand Base:Counter Top Base, adjustable View Angle
- Pole mount:Swing-arm mount, adjustable angle VESA

Base System

Before you begin, take a few moments to become familiar with the WP-75XX.



Expandable Main Display

The four sides of the main display are specially designed for expandable functions and connect with one of the available internal USB ports or PS/2 for operation. Optimized for simple installation, these interfaces do not require any voltage setting adjustments.

- RFID module (USB interface)
- MSR (PS/2 interface)
- I-Button (PS/2 interface)
- Fingerprint (Fingerprint for USB interface)
- IC Card Reader (IC Card Reader for USB interface)
- MSR+I-Button (PS/2 interface)
- MSR+Fingerprint (MSR for PS/2 interface, Fingerprint for USB interface)
- MSR+ IC Card Reader (MSR for PS/2 interface, IC Card Reader for USB interface)
- MSR+ RFID (MSR for PS/2 interface, RFID for USB interface)
- MSR+I-Button + IC Card Reader (MSR and +I-Button for PS/2 interface, IC Card Reader for USB interface)



NOTE:

The Magnetic Stripe Reader module can only be installed to the right side of the front panel.

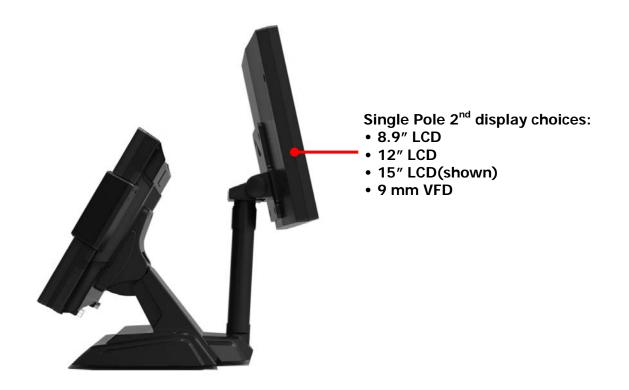


Convertible Pole-Type 2nd Display (optional)

The pole-type 2nd display is for use with the POS system to display purchase prices and change amounts to customers. It is also capable of displaying advertising messages and announcements.

Five types of pole mount display choices are available: a 8.9" LCD monitor, a 10.1" LCD monitor, a 12" LCD monitor, a 15" LCD monitor, and a 9 mm high, 2 lines with 20 characters each VFD.

The pole mount is located at the rear of the base and connects with the 2nd display port for operation. Whether installing a VFD, 8.9" LCD, 10.1" LCD, 12" LCD or 15" LCD, there is no need to change any settings on the main board or I/O board.



Dimensions

(Unit: mm)

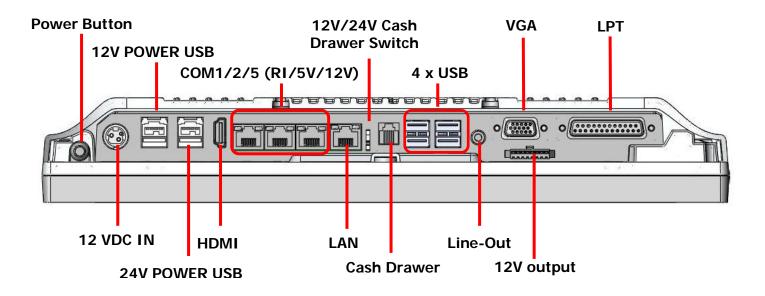




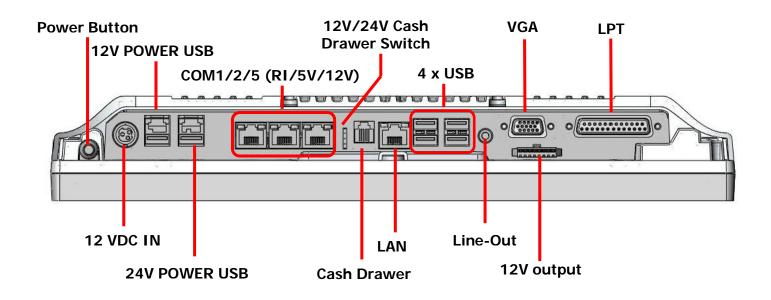
Connector Panel

The WP-75XX's primary connector panel is located at the rear.

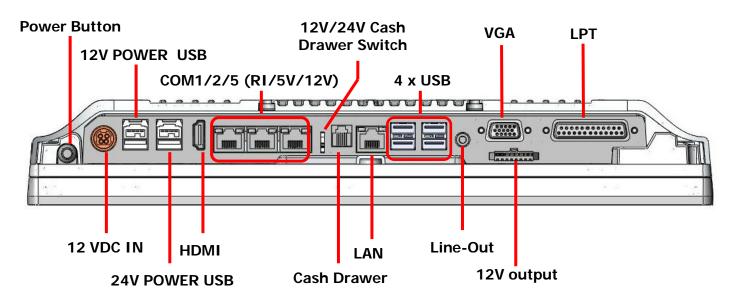
For WP-75XX-XX10



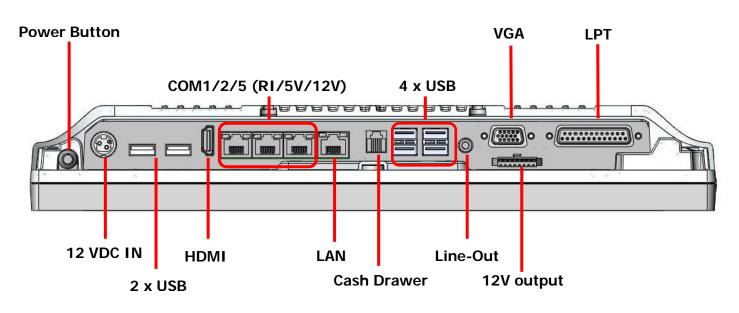
For WP-75XX-XX20



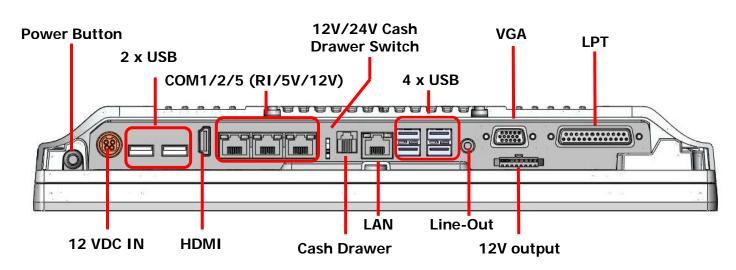
For WP-75XX-XX30



For WP-75XX-XX40



For WP-75XX-XX60



Chapter 2 Standard Hardware and Upgrades

Precautions

Before performing hardware changes, be sure to carefully read all of the applicable instructions, cautions, and warnings in this guide.

\wedge	WARNING!	To reduce the risk of personal injury from electrical shock, hot surfaces, or fire:	
		Disconnect the power cord from the wall outlet and allow the internal system components to cool before touching.	
		Do not plug telecommunications or telephone connectors into the network interface controller receptacles.	
		Do not disable the power cord grounding plug. The grounding plug is an important safety feature.	
		Plug the power cord in a grounded (earthed) outlet that is easily accessible at all times.	
\bigtriangleup	CAUTION:	Static electricity can damage the electrical components of the computer and/or optional equipment. Before beginning these procedures, ensure that you are discharged of static electricity by briefly touching a grounded metal object.	
		When the computer is plugged into an AC power source, voltage is always applied to the main board. You must disconnect the power cord from the power source before opening the unit to prevent damage to internal components.	

Opening System Box

CAUTION: To prevent loss of work and damage to the system or drive:

If you are inserting or removing a drive, shut down the operating system properly, turn off the system, and unplug the power cord. Do not remove a drive while the system is on or in standby mode.

Before handling a drive, ensure that you are discharged of static electricity. While handling a drive, avoid touching the connector.

- 1. Turn off the system power properly through the operating system, then turn off any external devices.
- 2. Disconnect the power cord from the power outlet and disconnect any external devices.
- 3. Remove two thumb screws indicated at the rear of the main LCD display, and then remove IO cover.



- 4. Unplug all cables from the IO ports of the POS system.
- 5. Unscrew two screws that attach the monitor to the hinge as shown below to remove it. Next, slide main LCD display upward slowly from hing and remove it.



6. For easier access place the main LCD display upside down, then Remove four screws and detach the right side cover and left side cover.





WARNING! To avoid scratching the panel while dismantling the system, first place a piece of cloth or cushion on your work surface.

7. Remove a screw and pull the mylar stuck on the HDD to remove HDD.



8. Remove logo indicated on the back of main LCD display.



9. Unscrew eight screws on the back cover of main LCD display as shown below to remove it.



Clearing CMOS

The WP-75XX's configuration (CMOS) may occasionally be corrupted. If it is, it will be necessary to clear the CMOS memory using jumper JP1. Please refer to Chapter 4 for the exact JP1 pin positions.

- 1. Turn off the system power properly through the operating system, then turn off any external devices.
- 2. Disconnect the power cord from the power outlet and disconnect any external devices.

CAUTION: Regardless of the power-on state, voltage is always present on the main board as long as the system is plugged into an active AC outlet. The power cord must be disconnected from the power source before clearing the CMOS.
 NOTE: All LEDs on the board should be OFF. Failure to ensure there is no power in the

NOTE: All LEDs on the board should be OFF. Failure to ensure there is no power in the system may damage the main board. You must disconnect the power cord to avoid damage to the internal components of the system.

- 3. Remove the system box and box cover.
- 4. Locate the JP1 jumper box on the main board PEB-973J.
- 5. Remove the jumper shunt from pins 1-2 and place over pins 2-3.
- 6. Wait 60 seconds to allow the CMOS to clear, then remove the jumper shunt and place it back in its original position over pins 1-2.
- 7. Replace the box cover and system box into the system.

Memory Installation

The memory sockets on the main board can be populated with up to an industry-standard DIMM. The WP-75XX comes standard with one preinstalled DIMM. To achieve maximum memory performance, up to 4GB of memory can be added.

CAUTION: You must disconnect the power cord and wait approximately 30 seconds for the power to drain before adding or removing memory cards. Regardless of the power-on state, voltage is always supplied to the memory modules as long as the system is plugged into an active AC outlet. Adding or removing memory modules while voltage is present may cause irreparable damage to the memory modules or main board. If you see an LED light on the main board, voltage is still present.

The memory module sockets have gold-plated metal contacts. When upgrading the memory, it is important to use memory modules with gold-plated metal contacts to prevent corrosion and/or oxidation resulting from having incompatible metals in contact with each other.

Static electricity can damage the electronic components of the system or optional cards. Before beginning these procedures, ensure that you are discharged of static electricity by briefly touching a grounded metal object.

When handling a memory module, be careful not to touch any of the contacts. Doing so may damage the module.

- 1. Turn off the system power properly through the operating system, then turn off any external devices.
- 2. Disconnect the power cord from the power outlet and disconnect any external devices.

CAUTION: Regardless of the power-on state, voltage is always present on the main board as long as the system is plugged into an active AC outlet. You must disconnect the power cord to avoid damage to the internal components of the system.

WARNING! To reduce risk of personal injury from hot surfaces, allow the internal system components to cool before touching.

3. Remove two thumb screws indicated at the rear of the main LCD display, and then remove IO cover.



- 4. Unplug all cables from the IO ports of the POS system.
- 5. Unscrew two screws that attach the monitor to the hinge as shown below to remove it. Next, slide main LCD display upward slowly from hing and remove it.



6. For easier access place the main LCD display upside down, then Remove four screws and detach the right side cover and left side cover.



7. Remove a screw and pull the mylar stuck on the HDD to remove HDD.



8. Remove logo indicated on the back of main LCD display.



9. Unscrew eight screws on the back cover of main LCD display as shown below to remove it.



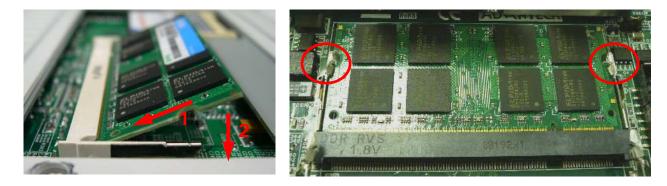
10. If an existing memory card or cards need to be replaced, pull the ends of both metal latches away from the card to release it.



NOTE:

A memory card can be installed in only one way. Match the notch on the card with the tab in the memory socket.

11. Insert the new or replacement memory card into the socket, almost covering the gold contacts completely, then push the card down. If the card is fully inserted and properly seated, the metal latches will be in the closed position indicated.



- 12. Replace the RAM cover, then replace the system box.
- 13. Reconnect the power cord and any external devices, then turn on the system. The system should automatically recognize the additional memory when powered up.

Removing and Replacing the SATA Hard Disk

NOTE: This system does not support Parallel ATA (PATA) hard drives.

Before removing the original hard drive, be sure to back up its data so that you can transfer the data to the replacement hard drive. Also, if you are replacing the primary hard drive, make sure you have a recovery disc set to restore the operating system, software drivers, and any software applications that were preinstalled on the system.

- 1. Turn off the system power properly through the operating system, then turn off any external devices.
- 2. Disconnect the power cord from the power outlet and disconnect any external devices.

CAUTION: Regardless of the power-on state, voltage is always present on the main board as long as the system is plugged into an active AC outlet. You must disconnect the power cord to avoid damage to the internal components of the system.

3. For easier access place the main LCD display upside down, then Remove two screws and detach the left side cover.



WARNING!

5! To avoid scratching the panel during the dismantling process, first place a piece of cloth or cushion underneath.

5. Remove a screw and pull the mylar stuck on the HDD to remove HDD.



4. Press the HDD to release the HDD from the HDD tray as shown below. Next, insert the replacement hard disk into the HDD tray.



- 5. Slide the HDD box back into the panel, ensuring that it is pressed all the way in and properly seated.
- 6. Reattach a screw that secure the HDD box.
- 7. Reattach the cover and two screws.
- 8. Reconnect the power cord and any external devices, then turn on the system.

NOTE: The capacity of a sector is 4096 bytes for 320GB HDD of WD. They are only suitable for Win7 or OS developed later than Win7. To use Microsoft earlier OS such as XP, POS Ready2009, You should install support tools offered by original supplier to align the performence of HDD. Otherwise HDD life will be reduced about 48%. You can get the alignment tool from following website or driver CD included in the package.

WD Alignment tool: <u>http://support.wdc.com/product/downloadsw.asp?sid=128</u>

Chapter 3 Optional Components and Peripherals

MSR/Fingerprint/I-Button/IC Card Module Installation

NOTE: The MSR module can only be installed to its designated position and socket; the same with the wireless module. Their locations are not interchangeable.

- 1. Turn off the system power properly through the operating system, then turn off any external devices.
- 2. Disconnect the power cord from the power outlet and disconnect any external devices.

CAUTION: Regardless of the power-on state, voltage is always present on the main board as long as the system is plugged into an active AC outlet. You must disconnect the power cord to avoid damage to the internal components of the system.

3. For easier access place the main LCD display upside down, then Remove two screws and detach the right side cover.





- 3. Connect MSR cable into the socket.
- 4. Slide the MSR into the main LCD display. Reattach the two screws that secure the MSR to the main LCD display.



5. Reconnect the power cord and any external devices, then turn on the system.

NOTE: The MSR module configuration tool is in the included CD. If you need configure MSR module, please execute the utility according to the procedure specified in Chapter 5.

Rear Mount VFD Installation

- 1. Turn off the system power properly through the operating system, then turn off any external devices.
- 2. Disconnect the power cord from the power outlet and disconnect any external devices.

CAUTION: Regardless of the power-on state, voltage is always present on the main board as long as the system is plugged into an active AC outlet. You must disconnect the power cord to avoid damage to the internal components of the system.

3. Remove logo indicated on the back of main LCD display.



- 4. Connect VFD cable to the KBTR connector of VFD KBTR board.
- 5. Secure the VFD module with two screws.



6. Reconnect the power cord and any external devices, then turn on the system.

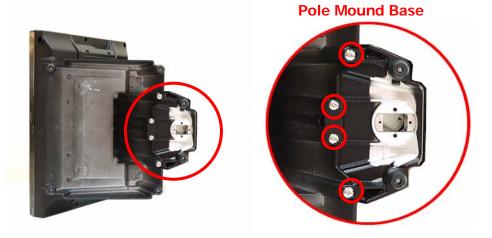
NOTE: The rear mount VFD module configuration utility is in the included CD. If you need configure VFD module, please execute the utility according to the procedure specified in Chapter 5.

Pole Mount 2nd Display Installation

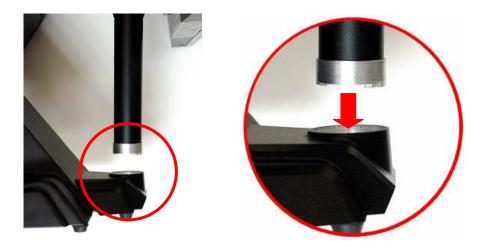
- 1. Turn off the system power properly through the operating system, then turn off any external devices.
- 2. Disconnect the power cord from the power outlet and disconnect any external devices.

CAUTION: Regardless of the power-on state, voltage is always present on the main board as long as the system is plugged into an active AC outlet. You must disconnect the power cord to avoid damage to the internal components of the system.

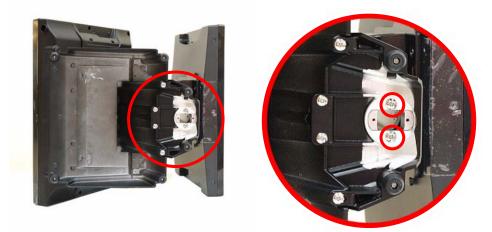
3. Secure the pole mount base with four screws.



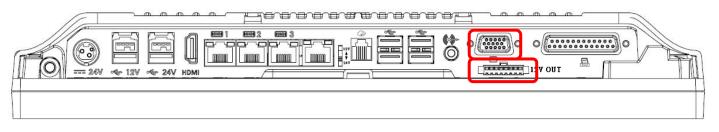
4. Carefully slide the pole display module into base's hole, ensuring it is plugged securely in the base's hole.



5. Secure the pole display module with two screws.



6. Connect VGA cable and 12V cable as shown below.



7. Reconnect the power cord and any external devices, then turn on the system.

Cash Drawer Installation

```
NOTE:
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Before connecting cash drawer to the system, please make sure the driver voltage and cable pin assignment of the cash drawer matches the definition of the system's cash drawer port.

Before installing the cash drawer to the system, please make sure the system driver has been installed.

- 1. Turn off the system power properly through the operating system, then turn off any external devices.
- 2. Disconnect the power cord from the power outlet and disconnect any external devices.

CAUTION: Regardless of the power-on state, voltage is always present on the main board as long as the system is plugged into an active AC outlet. You must disconnect the power cord to avoid damage to the internal components of the system.

3. Plug the cash drawer cable into the cash drawer port.

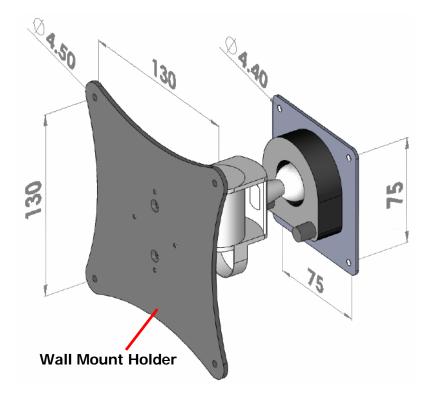
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4. Reconnect the power cord and any external devices, then turn on the system.

Swing Arm Kit Installation

Select a flat surface of adequate strength, ensuring there will be proper ventilation and maneuvering space. Please use the right tools and accessories according to the surface material (drywall, concrete, solid wood, etc.) to securely support the system box. A fully equipped system may weigh up to 5.5 kg.

1. Drill four holes in the surface following the rectangular mounting plate layout as shown below. The rectangular drill pattern should be 130mm wide (horizontal) and 130mm high (vertical). Secure the swing arm to the surface with four screws.



NOTE:

Wall mounting screws are not supplied, as different types of walls require different types of screws. Please be sure the mounting screws used can support the weight of the unit.

2. Next, prepare the arm to be attached to the WP-65X1. Release the two thumb screws and remove the VESA holder plate by sliding it in the direction of the arrow.



3. Secure the VESA holder to the main LCD display with four screws.



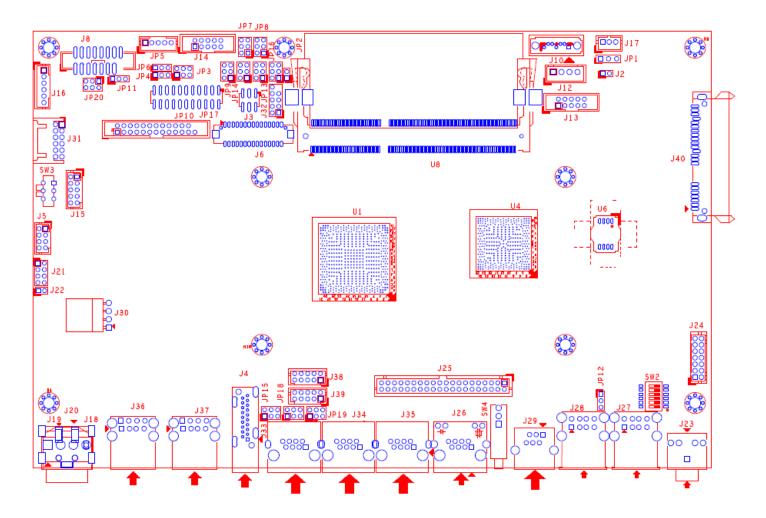
4. Affix the main LCD display to the swing arm by sliding the holder plate back into its swing arm holder.



5. After the main unit is attached, replace the two thumb screws to secure the panel.

Chapter 4 Main Board Configuration

Jumper and Connector Locations of PEB-973J



Connector Allocations

Jump	Function
JP1	CMOS RAM charge/discharge setup
JP3	LVDS Panel VDD input voltage selection
JP4	LVDS Panel Backlight enable voltage selection
JP7;JP8;JP9; JP13;JP14;JP16	COM Port RI Voltage selection
JP11	Backlight control voltage level Mode
JP12	Cash Drawer Voltage selection
JP15; JP18; JP19	COM1 & COM2 & COM5 Console Selection Header
JP17	COM5 PORT RS232/422/485 Selection Header
JP20	LVDS Backlight control PWM or DC Mode
SW2	Audio Jack for AMP Function
SW3	KBTR COM Port & keyboard Function Selection
SW4	Cash Drawer Voltage selection
J4	HDMI Connector
J5	USB pin Header
J6	LVDS Connector
J8	VGA Pin Header.
J10	SATA Connector
J12	SATA Power pin header
J13;J14 ;J15	COM 3/4/6 Port pin header
J16	KB pin header
J17	System FAN Control pin header
J18.	INPUT Power Jack
J20	Power Pin Header (12V INPUT)
J21	Front panel pin header
J22	HDD_LED pin header
J23	Audio LINE_OUT phone Jack
J24	Audi Line _OUT & MIC & LINE_IN Function Pin Header
J25	LAN & USB & COM Port Co-layout pin header
J26	LAN Connector
J27;J28	USB Connector.
J29	Cash Drawer Connector.
J30	+12V OUT pin header
J31	KBTR pin header
J32	LPC Debug Port pin header
J33;J34;J35	COM PORT 1/2/5 Connector
J36	Power USB 12V Connector
J37	Power USB 24V Connector
J38;J39	COM PORT 2/5 Connector
J40	SMD Connector.SATA 7+15P Connector
JP2	Case Open Pin Header
JP5	BACK LIGHT PWR Pin Header
JP10	LPT Pin Header

Connectors Pin Assignments of PEB-973J

J4

HDMI Connector

PIN No.	Signal Description	PIN No.	Signal Description
1	TMDA DATA2+	2	DATA2 SHGND
3	TMDA DATA2-	4	TMDA DATA1+
5	DATA1 SHGND	6	TMDA DATA1-
7	TMDA DATA0+	8	DATA0 SHGND
9	TMDA DATA0-	10	TMDA CLK+
11	CLK SHGND	12	TMDA CLK-
13	CEC	14	RESERVED
15	SCL	16	SDA
17	DDC/CEC/GND	18	+5V Power
19	HPDET		



USB pin Header

PIN No.	Signal Description	PIN No.	Signal Description
1	USBA_VCC	2	USBB_VCC
3	USBDAM	4	USBDBN
5	USBDAP	6	USBDBP
7	GND	8	GND



LVDS Connector

PIN No.	Signal Description	PIN No.	Signal Description
1	LVDS_P_CH0_TX0	2	LVDS_N_CH0_TX0
3	LVDS_P_CH0_TX1	4	LVDS_N_CH0_TX1
5	LVDS_P_CH0_TX2	6	LVDS_N_CH0_TX2
7	LVDS_P_CH0_TX3	8	LVDS_N_CH0_TX3
9	LVDS_P_CH0_TX_CLK	10	LVDS_N_CH0_TX_CLK
11	LVDS0_CHB_TX0P	12	LVDS0_CHB_TX0N
13	LVDS0_CHB_TX1P	14	LVDS0_CHB_TX1N
15	LVDS0_CHB_TX2P	16	LVDS0_CHB_TX2N
17	LVDS0_CHB_TX3P	18	LVDS0_CHB_TX3N
19	LVDS0_CHB_CLKP	20	LVDS0_CHB_CLKN
21	LVDS0_DDC_CLK	22	LVDS0_DDC_DATA
23	GND	24	NC
25	GND	26	GND
27	VDD_LVDS	28	VDD_LVDS
29	NC	30	VDD_LVDS

VGA pin header

PIN No.	Signal Description	PIN No.	Signal Description
1	R	2	GND
3	GND	4	SCL
5	G	6	GND
7	VGA_AL_EN	8	SDA
9	VSYNC	10	GND
11	GND	12	HSYNC
13	5V	14	GND
15	NC	16	VSYNC

J10

SATA Connector

PIN No.	Signal Description	
1	GND1	
2	TX+	
3	TX-	
4	GND2	
5	RX-	
6	RX+	
7	GND3	



SATA Power pin header

PIN No.	Signal Description	
1	+12V	
2	GND	
3	GND	
4	+5V	

J13;J14;J15

COM 3/4/6 PORT pin header

PIN No.	Signal Description	PIN No.	Signal Description
1	DCD	2	DSR
3	RXD	4	RTS
5	TXD	6	CTS
7	DTR	8	V_RI
9	GND	10	NC

J8

J16

KB pin header

PIN No.	Signal Description	
1	L_KCLK	
2	L_MDAT	
3	L_KDAT	
4	KB_5VCC	
5	L_MCLK	
6	GND	



System FAN Control pin header

PIN No.	Signal Description	
1	Fan Control	
2	+12V	
3	GND	



Power PIN Header (12V INPUT)

PIN No.	Signal Description	
1	GND	
2	GND	
3	+12V_VIN	
4	+12V_VIN	

J21

Front panel pin header

PIN No.	Signal Description	PIN No.	Signal Description
1	SUSLED+	2	SUSLED-
3	PWRLED+	4	PWRLED-
5	GND	6	SYS_RESET
7	PWR_ON_SW#	8	GND

J24

Audi Line _OUT & MIC & LINE_IN Function Pin Header

PIN No.	Signal Description	PIN No.	Signal Description
1	MIC-L	2	MIC-R
3	LINE_IN_L	4	ACGND
5	LINE_IN_R	6	ACGND
7	AMP_LINE_OUT_L+	8	AMP_LINE_OUT_L-
9	AMP_LINE_OUT_R+	10	AMP_LINE_OUT_R-
11	Jack_HP-IN	12	ACGND
13	LINE_OUT_L	14	LINE_OUT_R

J25

LAN & USB & COM Port Co-layout pin header

PIN No.	Signal Description	PIN No.	Signal Description
1	LAN1_MDI0+	2	+5VCC
3	LAN1_MDI0-	4	+5VCC
5	LAN1_MDI1+	6	+5VCC
7	LAN1_MDI1-	8	+5VCC
9	LAN1_MDI2+	10	GND
11	LAN1_MDI2-	12	GND
13	LAN1_MDI3+	14	+12V
15	LAN1_MDI3-	16	+12V
17	GND	18	GND
19	DR_OUTA	20	+12V/24V
21	DR_OUTB	22	GND
23	DINT_R_0	24	DCD#1
25	GND	26	DSR#1
27	USBDON	28	RXD#1
29	USBDOP	30	RTS#1
31	GND	32	TXD#1
33	GND	34	CTS#1
35	USBD1N	36	DTR#1
37	USBD1P	38	V_RI1
39	GND	40	GND

J27;J28

USBx2 Stack A Type Connector

PIN No.	Signal Description	PIN No.	Signal Description
A1	5VCC	B1	5VCC
A2	D0-	B2	D1-
A3	D0+	B3	D1+
A4	GND	B4	GND



Cash Drawer Connector

PIN No.	Signal Description
1	GND
2	DR_OUTA
3	DINT_R_0
4	VDD
5	DR_OUTB
6	GND

J30 +12V Output Pin Header

PIN No.	Signal Description
1	+12V
2	+12V
3	GND
4	GND



KBTR pin header

PIN No.	Signal Description	PIN No.	Signal Description
1	USBD10P	2	GND
3	USBD10N	4	GND
5	USBD6P	6	GND
7	USBD6N	8	+5V
9	L_KDAT(TX COM6)	10	+5V
11	L_KCLK(RX COM6)	12	+5V

J32

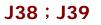
LPC DEBUG PORT Pin Header

PIN No.	Signal Description	PIN No.	Signal Description
1	LAD0	2	+3.3V
3	LAD1	4	SIO_PLTRST_N
5	LAD2	6	LFRAME_N
7	LAD3	8	CLK_PORT_80H
9	NC	10	GND

J33;J34;J35

COM PORT 1/2/5 Connector

PIN No.	Signal Description
1	RI
2	CTS#
3	GND
4	RTS#
5	DTR#
6	DSR#
7	TXD#
8	RXD#



COM 2/5 PORT pin header

PIN No.	Signal Description	PIN No.	Signal Description
1	DCD	2	DSR
3	RXD	4	RTS
5	TXD	6	CTS
7	DTR	8	V_RI
9	GND	10	NC

Note : J38 J34/J39 J35 belong com 2/5 port connector, this part can only a second election to use for COM port connector.



SATA Connector& SATA Power pin header

PIN No.	Signal Description	PIN No.	Signal Description
1	GND	12	GND
2	TX+	13	GND
3	TX-	14	5V
4	GND	15	5V
5	RX-	16	5V
6	RX+	17	GND
7	GND	18	NC
8	3.3V	19	GND
9	3.3V	20	12V
10	3.3V	21	12V
11	GND	22	12V



Case Open Pin Header

PIN No.	Signal Description
1	CASE OPEN#
2	GND

JP5

BACK LIGHT PWR Pin Header

PIN No.	Signal Description
1	VCC5_PS / +5V
2	BACK LIGHT Control
3	+12V
4	GND
5	BKLT LIGHT Enable

JP10

LPT Pin Header

PIN No.	Function	PIN No.	Function
1	P_STB -	2	P_AF D-
3	P_PD0	4	ERR -
5	P_PD1	6	P_INIT -
7	P_PD2	8	P_SLIN -
9	P_PD3	10	GND
11	P_PD4	12	GND
13	P_PD5	14	GND
15	P_PD6	16	GND
17	P_PD7	18	GND
19	ACK -	20	GND
21	BUSY	22	GND
23	PE	24	GND
25	SLCT	26	Кеу

Jumper Settings of PEB-973J

To set jumper positions, place the jumper shunt over the pins designated in the table (SHORT) or remove (NC) it from the jumper pins and store for future use. Default settings are indicated with a star sign (\star).

JP1

CMOS RAM charge/discharge setup

JP1	Function
1-2 short	NORMAL *
2-3 short	Clear CMOS

JP3

LVDS Panel VDD input voltage selection

JP3			Function
2-4	VCC=3.3V	*	
4-6	VCC=5V		
3-4	VCC=12V		



LVDS Panel Backlight enable voltage selection

JP4	Function
1-2	VCC=3.3V ★
2-3	VCC=5V

JP8

COM4 Port Voltage selection

JP8	Function
1-2 short	VDD=5V ★
3-4 short	RI#
5-6 short	VDD=12V

JP7; JP9; JP13; JP14; JP16

COM Port RI Voltage selection

JP7;JP9;JP13; JP14;JP16	Function
1-2 short	VDD=5V
3-4 short	RI# ★
5-6 short	VDD=12V

JP7 is COM3 Port RI Voltage selection . JP9 is COM6 Port RI Voltage selection . JP13 is COM1 Port RI Voltage selection . JP14 is COM2 Port RI Voltage selection . JP16 is COM5 Port RI Voltage selection .



Wrong voltage selection may damage the COM Port device. Please survey COM port device's RI before setting this jumper setting.



Backlight control voltage level Mode

JP11	Function
1-2	3.3V
2-3	5V

JP12

Cash Drawer Voltage selection

JP12	Function
1;2	12V \star
2;3	24V

JP15; JP18; JP19

COM1 & COM 2 & COM5 Console Selection Header

PIN No.	Function
RS232	1-3 ; 2-4



COM5 PORT RS232/422/485 Selection Header

COM5 Function	Jumper Setting (Pin closed)
RS-232	5-6;9-11;10-12;15-17;16-18
RS-422	3-4;7-9;8-10;13-15;14-16;21-22
RS-485	1-2;7-9;8-10;19-20

JP20

LVDS Backlight control PWM or DC Mode

JP20	Function
1-3;2-4	PWM Mode ★
3-5;4-6	DC Mode



Audio Jack for AMP Function

SW2	Function
1;3;5 ON	For AMP Function ★
2;4;6 OFF	
2;4;5;6 ON	No AMP Function
1;3 OFF	



KBTR COM Port & keyboard Function Selection

SW3	Function	
A-B	Keyboard Function *	
B-C	COM6 Port TX & RX Function	

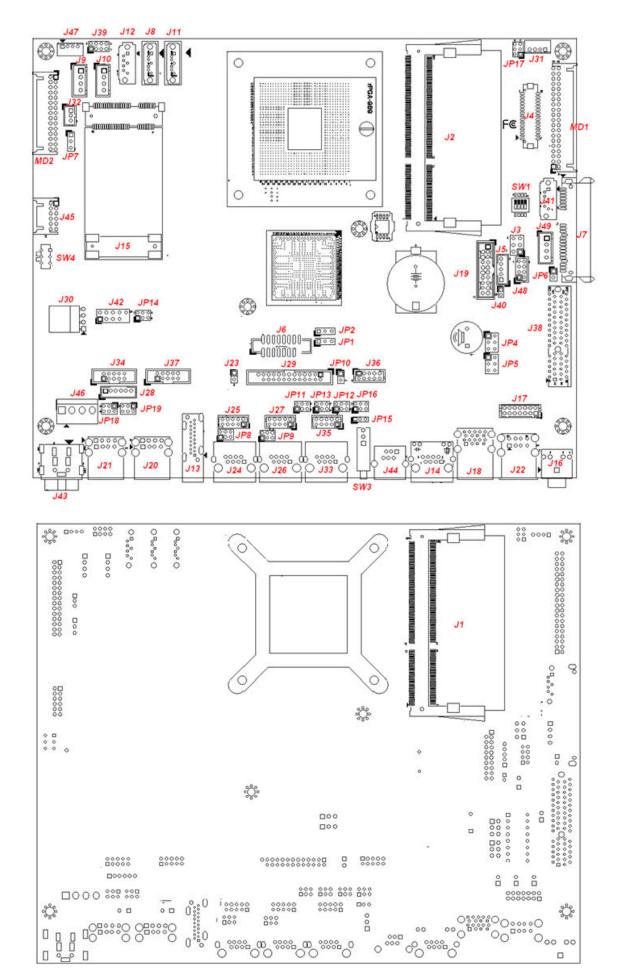
SW4

Cash Drawer Voltage selection

SW4			Function
Upward	24V		
Downward	12V	*	

Note : Wrong voltage selection may damage the Cash Drawer device .

Jumper and Connector Locations of PEB-973L



Connector Allocations

Jump	Function		
J1	DDR3Connector / Reverse Type		
J2	DDR3Connector / Standard Type		
J3	LVDS Backlight Adjustment Connector		
	LVDS Panel Connector		
J5	LVDS Backlight Inverter Module Connector		
J6	VGA Pin Header		
J7	SATA Connector& SATA Power Pin Header(SATA 3.0)		
J8 、 J11	SATA Connector (Black)		
J12 \ J41	SATA Connector (Blue, SATA 3.0)		
J9 \ J10, J49	SATA Power Connector		
J13	HDMI Connector		
J14	Ethernet Connector		
J15	Mini PCI-Express/ mSATA Connector		
J16	Audio LINE OUT Phone Jack		
J17	Audi Line _OUT & MIC & LINE_IN Function Pin Header		
J18	USB 3.0 A Type Connector		
J19	USB 3.0 BOX Header		
J20	Power USB +12V		
J21	Power USB +24V		
J22	USB Connector Type A		
J23	Case Open Function Connector		
J24、J26、J33	COM Port with RJ45 Connector		
J25、J27、J35、J36	COM 1, 2, 5, 6 On Board Wafer Header		
J28	PS/2 Keboard/ Mouse Connector		
J29	LPT Parallel Port Connector		
J30	+12V OUT Connector		
J31	CPU Fan Connect		
J32	System Fan Connect		
J38	PCI-Express X4 Slot		
J39	Front Panel Connector		
J40	Hard Disk Active LED		
J42	LPC Debug Port		
JP1	CMOS RAM Charge/Discharge Setup		
JP2	Secondary RTC Function		
JP4	LVDS Panel VDD Input Voltage Selection		
JP5	LVDS Panel Backlight Enable Voltage Selection		
JP6	LVDS Panel Backlight Control Mode		
JP7	mSATA / PCIe Function Selector		
JP8	COM1 Console Selection Header		
JP11	COM2 Console Selection Header		
JP13	COM5 Console Selection Header		
JP9	COM1 Port RI Voltage Selection		

JP12	COM2 Port RI Voltage Selection	
JP14	COM6 Port RI Voltage Selection	
JP16	COM3 Port RI Voltage Selection	
JP18	COM4 Port RI Voltage Selection	
JP19	COM5 Port RI Voltage Selection	
JP10	Keyboard 5V Enabled	
JP15	Cash Drawer Voltage Selection	
JP17	KBTR COM Port & Keyboard Function Selection	
SW1	LVDS Panel Type Selector	
SW3	Cash Drawer Voltage Selection	
SW4	KBTR COM Port & Keyboard Function Selection	

Connector Pin Assignments of PEB-973L

J3

LVDS Backlight Adjustment Connector

PIN No.	Signal Description	PIN No.	Signal Description
1	Gnd	2	LVDS_BLU
3	Gnd	4	BL_PWM_INV#
5	Gnd	6	LVDS_BLD#

J4

LVDS Panel Connector

PIN No.	Signal Description	PIN No.	Signal Description
1	LVDS_CHA_TX0+	2	LVDS_CHA_TX0-
3	LVDS_CHA_TX1+	4	LVDS_CHA_TX1-
5	LVDS_CHA_TX2+	6	LVDS_CHA_TX2-
7	LVDS_CHA_TX3+	8	LVDS_CHA_TX3-
9	LVDS_CHA_CLK+	10	LVDS_CHA_CLK-
11	LVDS_CHB_TX0+	12	LVDS_CHB_TX0-
13	LVDS_CHB_TX1+	14	LVDS_CHB_TX1-
15	LVDS_CHB_TX2+	16	LVDS_CHB_TX2-
17	LVDS_CHB_TX3+	18	LVDS_CHB_TX3-
19	LVDS_CHB_CLK+	20	LVDS_CHB_CLK1
21	LVDS_DDC_CLK	22	LVDS_DDC_DATA
23	GND	24	NC
25	GND	26	GND
27	VDD_LVDS	28	VDD_LVDS
29	NC	30	VDD_LVDS

J5

LVDS Backlight Inverter Module Connector

PIN No.	Signal Description	
1	VCC	
2	LVDS_PWM_OUT	
3	+12V	
4	GND	
5	CN_BL_ENABLE	

VGA Pin Header

PIN No.	Signal Description	PIN No.	Signal Description
1	Red	2	GND
3	GND	4	SCL
5	Green	6	GND
7	VGA_AL_EN	8	SDA
9	Blue	10	GND
11	GND	12	HSYNC
13	5V	14	GND
15	NC	16	VSYNC

J7

SATA Connector& SATA Power pin header (SATA 3.0)

PIN No.	Signal Description	PIN No.	Signal Description
CG1	GND	CG2	GND
S1	GND	S2	TX+
S3	TX-	S4	GND
S5	RX-	S6	RX+
S7	GND	1	+3.3V
2	+3.3V	3	+3.3V
4	GND	5	GND
6	GND	7	VCC
8	VCC	9	VCC
10	GND	11	NC
12	GND	13	+12V
14	+12V	15	+12V

J8, J11

SATA Connector(SATA 2.0, Black)

PIN No.	Signal Description	PIN No.	Signal Description
CG1	GND	CG2	GND
1	GND	2	TX+
3	TX-	4	GND
5	RX-	6	RX+
7	GND		

J6

J12, J41

SATA Connector(SATA3.0, Blue)

PIN No.	Signal Description	PIN No.	Signal Description
CG1	GND	CG2	GND
1	GND	2	TX+
3	TX-	4	GND
5	RX-	6	RX+
7	GND		

J9, J10,J49

SATA Power Connector

PIN No.	Signal Description
1	+12V
2	GND
3	GND
4	VCC

J13

HDMI Connector

PIN No.	Signal Description	PIN No.	Signal Description
1	TMDADATA2+	2	DATA2SHGND
3	TMDADATA2-	4	TMDADATA1+
5	DATA1SHGND	6	TMDADATA1-
7	TMDADATA0+	8	DATA0SHGND
9	TMDADATA0-	10	TMDACLK+
11	CLKSHGND	12	TMDACLK-
13	CEC	14	RESERVED
15	SCL	16	SDA
17	DDC/CEC/GND	18	+5VPower
19	HPDET		

J14

Ethernet Connector

PIN No.	Signal Description	PIN No.	Signal Description
CG1	GND	CG2	GND
1	TD4-	8	TD2+
2	TD4+	9	TD1-
3	TD3-	10	TD1+
4	TD3+	11	LED_ACT+
5	L_MDC0	12	LED_ACT-
6	L_MDC1	13	LAN_LED_100#
7	TD2-	14	LAN_LED_1000#

J15

Mini PCI-Express/ mSATA Connector

PIN No.	Signal Description	PIN No.	Signal Description
CG1	GND	CG2	GND
CG3	GND	CG4	GND
CG5	GND	CG6	GND
1	WAKE#	2	+3.3V DUAL
3	NC	4	GND
5	NC	6	+1.5V
7	CLK_REQ#	8	NC
9	GND	10	NC
11	CLK-	12	NC
13	CLK+	14	NC
15	GND	16	NC
17	NC	18	GND
19	NC	20	NC
21	GND	22	RST#
23	RX-	24	+3.3V DUAL
25	RX+	26	GND
27	GND	28	+1.5V
29	GND	30	SMB_CLK
31	TX-	32	SMB_DATA
33	TX+	34	GND
35	GND	36	USB-
37	GND	38	USB+
39	+3.3V DUAL	40	GND
41	+3.3V DUAL	42	NC
43	DEV_SEL	44	NC
45	NC	46	NC
47	NC	48	+1.5V
49	NC	50	GND
51	MSATA_PRSNT#	52	+3.3V DUAL

J16

Audio LINE OUT Phone Jack

PIN No.	Signal Description	PIN No.	Signal Description
1	ACGND	2	AMP_R+
3	VCC	4	ACGND
5	AMP_L+		

Audi Line _OUT & MIC & LINE_IN Function Pin Header

PIN No.	Signal Description	PIN No.	Signal Description
1	MIC-L	2	MIC-R
3	LINE_IN_L	4	ACGND
5	LINE_IN_R	6	ACGND
7	AMP_L+	8	AMP_L-
9	AMP_R+	10	AMP_R-
11	NC	12	ACGND
13	IN_L	14	IN_R

J18

J17

USB 3.0 / Type A Connector

PIN No.	Signal Description	PIN No.	Signal Description
A1	VCC	B1	VCC
A2	USBD0-	B2	USBD1-
A3	USBD0+	B3	USBD1+
A4	GND	B4	GND
A5	USB3_R1-	B5	USB3_R2-
A6	USB3_R1+	B6	USB3_R2+
A7	GND	B7	GND
A8	USB3_T1-	B8	USB3_T2-
A9	USB3_T1+	B9	USB3_T2+

J19

USB 3.0 BOX Header

PIN No.	Signal Description	PIN No.	Signal Description
1	VCC	11	USBD3-
2	USB3_R3-	12	USBD3+
3	USB3_R3+	13	GND
4	GND	14	USB3_T4-
5	USB3_T3-	15	USB3_T4+
6	USB3_T3+	16	GND
7	GND	17	USB3_R4-
8	USBD2-	18	USB3_R4+
9	USBD2+	19	VCC
10	GND		

J20

Power USB +12V

Up PIN No.	Signal Description
B1	GND
B2	+12V
B3	+12V
B4	GND
Dn PIN No.	Signal Description
A1	USB VCC
A2	USBD-
A3	USBD+
A4	GND



Power USB +24V

Up PIN No.	Signal Description
B1	GND
B2	+24V
B3	+24V
B4	GND
Dn PIN No.	Signal Description
A1	USB VCC
A2	USBD-
A3	USBD+
A4	GND



USB 2.0 Connector / Type A

Up PIN No.	Signal Description
B1	USB VCC
B2	USBD-
B3	USBD+
B4	GND
Dn PIN No.	Signal Description
A1	USB VCC
A2	USBD-
A3	USBD+
A4	GND



Case Open Function Connector

PIN No.	Signal Description
1	Copen SIO#
2	GND

J24, J26, J33

COM Port with RJ45 Connector

PIN No.	Signal Description
CG1	GND
CG1	GND
1	V_RI
2	CTS#
3	GND
4	RTS#
5	DTR#
6	DSR#
7	TXD#
8	RXD#

J25, J27, J35, J36

COM PORT 1/2/5/6 Connector Wafer Type 2.0mm 2X5P

PIN No.	Signal Description	PIN No.	Signal Description
1	DCD#	2	DSR#
3	RXD#	4	RTS#
5	TXD#	6	CTS#
7	DTR#	8	V_RI1
9	GND	10	NC

J34, J37

COM 3/4 PORT Pin Header, BOX Header 2.0mm 2X5P

PIN No.	Signal Description	PIN No.	Signal Description
1	DCD#	2	DSR#
3	RXD#	4	RTS#
5	TXD#	6	CTS#
7	DTR#	8	V_RI1
9	GND	10	NC

J28

PS/2 Keboard/ Mouse Connector

PIN No.	Signal Description
1	K-CLK
2	M-DATA
3	K-DATA
4	+5V
5	M-CLK
6	GND

LPT Parallel Port Connector 13pX2(-26) BOX Header 2.0mm

PIN No.	Signal Description	PIN No.	Signal Description
1	STB#	2	AFD#
3	PD0	4	ERR#
5	PD1	6	INIT#
7	PD2	8	SLIN#
9	PD3	10	GND
11	PD4	12	GND
13	PD5	14	GND
15	PD6	16	GND
17	PD7	18	GND
19	ACK#	20	GND
21	BUSY	22	GND
23	PE	24	GND
25	SLCT		



J29

+12V OUT Connector 2.54mm 4pX1

PIN No.	Signal Description
1	+12V
2	+12V
3	GND
4	GND



CPU Fan Connector

PIN No.	Signal Description	
1	CPU Fan Input	
2	Fan Power(+12V)	
3	GND	
4	NC	



System Fan Connector

PIN No.	Signal Description	
1	SYS Fan Input	
2	Fan Power(+12V)	
3	GND	

PCI-Express X4 Slot

J38

PIN No.	Signal Description	PIN No.	Signal Description
B1	+12V	A1	NC
B2	+12V	A2	+12V
B3	+12V	A3	+12V
B4	GND	A4	GND
B5	SMBCLK	A5	NC
B6	SMBDATA	A6	NC
B7	GND	A7	NC
B8	+3.3V	A8	NC
B9	NC	A9	+3.3V
B10	+3.3VSB	A10	+3.3V
B11	PCIE_WAKE#	A11	PLTRST#
B12	NC	A12	GND
B13	GND	A13	CLK _PCIE1+
B14	TX1+	A14	CLK _PCIE1-
B15	TX1-	A15	GND
B16	GND	A16	RX1+
B17	NC	A17	RX1-
B18	GND	A18	GND
B19	TX2+	A19	NC
B20	TX2-	A20	GND
B21	GND	A21	RX2+
B22	GND	A22	RX2-
B23	TX3+	A23	GND
B24	TX3-	A24	GND
B25	GND	A25	RX3+
B26	GND	A26	RX3-
B27	TX4+	A27	GND
B28	TX4-	A28	GND
B29	GND	A29	RX4+
B30	NC	A30	RX4-
B31	NC	A31	GND
B32	GND	A32	NC

J39

PIN No.	Signal Description	PIN No.	Signal Description
1	3.3VSB	2	SUS_LED#
3	+3.3V	4	GND
5	GND	6	SYSRST#
7	Power_On_SW	8	GND

J40

Hard Disk Active LED

PIN No.	Signal Description	
1	+3.3V	
2	HD_LED#	



LPC Debug Port

PIN No.	Signal Description	PIN No.	Signal Description
1	AD0	2	+3.3V
3	AD1	4	PLT_RST
5	AD2	6	LPC_FRAME#
7	AD3	8	PCLK_P80
9		10	GND

J43

DC JACK Connector

PIN No.	Signal Description	PIN No.	Signal Description
1	+19V	2	GND
3	+19V	4	GND
5	NC		



Cash Drawer Connector

PIN No.	Signal Description
1	GND
2	DRA
3	DINT
4	12V_24V_PW
5	DRA
6	GND

KBTR Connector

PIN No.	Signal Description	PIN No.	Signal Description
1	USBD+	2	GND
3	USBD-	4	GND
5	USBD+	6	GND
7	USBD-	8	VCC
9	KDAT/TXD#	10	VCC
11	KCLK/RXD#	12	VCC

J46

J45

Power Input Header 4Px1

PIN No.	Signal Description
1	GND
2	GND
3	+ 19V
4	+ 19V

J47

Front Panel Power Switch Pin Header

PIN No.	Signal Description
1	GND
2	P_LED
3	GND
4	Power_ON_SW

J48

USB Connector (Wafer Type)

PIN No.	Signal Description	PIN No.	Signal Description
1	USB VCC	2	USB VCC
3	USBD-	4	USBD-
5	USBD+	6	USBD+
7	GND	8	GND

PS. USB port 6, port 7 can't use in HM76 PCH.

MD1

Multi Purpose Port1 Connector

PIN No.	Signal Description	PIN No.	Signal Description
1	AMP_L+	2	LVDS BKLTEN
3	AMP_L-	4	+12V
5	GND	6	+12V
7	GND	8	+12V
9	VDD_LVDS	10	LVDS Adjust
11	VDD_LVDS	12	GND
13	LVDS DATAP0	14	GND
15	LVDS DATANO	16	GND
17	LVDS DATAP1	18	USB DATA6P
19	LVDS DATAN1	20	USB DATA6N
21	LVDS DATAP2	22	GND
23	LVDS DATAN2	24	USB DATA7P
25	LVDS DATAP3	26	USB DATA7N
27	LVDS DATAN3	28	GND
29	LVDS CLKP	30	USB DATA8P
31	LVDS CLKN	32	USB DATA8N
33	GND	34	+5V
35	GND	36	+5V
37	GND	38	K/B DATA(TX COM6)
39	GND	40	K/B CLK(RX COM6)

PS. USB port 6, port 7 can't use in HM76 PCH.

MD2

Multi Purpose Port2 Connector

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	AMP_R+	2	+5V
3	AMP_R-	4	+5V
5	SATA TXP2	6	+5V
7	SATA TXN2	8	+5V
9	GND	10	+5V
11	SATA RXP2	12	+5V
13	SATA RXN2	14	+5V
15	GND	16	+12V
17	GND	18	+12V
19	GND	20	+12V
21	TXD#3	22	CTS#3
23	RXD#3	24	DSR#3
25	RTS#3	26	DTR#3
27	GND	28	GND
29	GND	30	GND

J35 co	M PORT 5 Con	nector Wafer	Type 2.0mm 2X5
PIN NO.	RS-232	RS-422	RS-485
PIN1	DCD#		
PIN2	RXD#	TX+	Data+
PIN3	TXD#	RX+	
PIN4	DTR#	RX-	
PIN5	GND	GND	GND
PIN6	DSR#	TX-	Data-
PIN7	RTS#		
PIN8	CTS#		
PIN9	RI#		

Jumper Settings of PEB-973L

To set jumper positions, place the jumper shunt over the pins designated in the table (SHORT) or remove (NC) it from the jumper pins and store for future use. Default settings are indicated with a star sign (\star).



CMOS RAM Charge/Discharge setup

JP1	Function
1-2	NORMAL ★
2-3	Clear CMOS



Secondary RTC Function

JP2	Function
1-2	NORMAL ★
2-3	Clear CMOS



LVDS Panel VDD Input Voltage Selection

JP4	Function
1-2	VDD=3V ★
5-6	VDD=5V



LVDS Panel Backlight Enable Voltage Selection

JP5	Function
1-3 \ 2-4	5V, Active High ★
1-3 \ 4-6	3V, Active High
3-5 \ 2-4	5V, Active Low
3-5 \ 4-6	3V, Active Low

JP6

LVDS Panel Backlight Control Mode

JP6	Function
Open	Backlight control use PWM mode
Short	Backlight control use voltage mode \star

JP7

mSATA / PCIe Function Selector

JP7	Function
1-2	Enabled mSATA function 🖈
2-3	Enabled PCIE and MiniPCIE function

JP8(COM1) , JP11(COM2) , JP13(COM5)

COM Console Selection Header

	Function
RS232	1-3 ; 2-4

JP9(COM1) , JP12(COM2) , JP14(COM6) JP16(COM3) , JP18(COM4) , JP19(COM5)

COM Port RI / Voltage Selection

	Function
1-2	VDD=5V
3-4	RI# ★
5-6	VDD=12V

JP10

Keyboard 5V Enabled

JP10	Function	
Open	Disable PS2 Keyboard	
Short	Enabled PS2 Keyboard ★	

JP15

Cash Drawer Voltage Selection

JP15	Function	
1;2	+ 12V ★	
2;3	+ 24V	

JP17

KBTR COM Port & Keyboard Function Selection

JP4	Function	
1-3 , 2-4	Keyboard Function *	
3-5,4-6	COM6 Port TX & RX Function	



Cash Drawer Voltage Selection

SW3	Function	
1-2	+ 12V \star	
2-3	+ 24V	

SW4

KBTR COM Port & Keyboard Function Selection

SW4	Function	
A-B	Keyboard Function	
B-C	COM6 Port TX & RX Function	

SW1 LVDS panel type selector. 0 = Switch ON, 1= Switch OFF

SW1[30]	Panel model name	Resolution
0000		800x600x18bit, single channel
0001	AUO G150XG01 V3	1024x768x18bit, single channel
0010		1024x768x24bit, single channel
0011		1280x768x18bit, single channel
0100		1280x800x18bit, single channel
0101		1280x960x18bit, single channel
0110		1280x1024x24bit, dual channel
0111		1366x768x18bit, single channel
1000		1366x768x24bit, single channel
1001		1440x900x24bit, dual channel
1010		1440x1050x24bit, dual channel
1011		1600x900x24bit, dual channel
1100		1680x1050x24bit, dual channel
1101		1600x1200x24bit, dual channel
1110		1920x1080x24bit, dual channel
1111		1920x1200x24bit, dual channel

Chapter 5 Software Setup

Pre-Installation Requirements

This system comes with a variety of drivers for different operating systems. A software CD is included in the package contents. The following section documents the procedures used to install the peripheral.

- 1. Insert sofeware CD into a system.
- 2. Run the setup.exe file on the CD.
- 3. Click **[Select Product]** to select your POS model.



4. Click **[Select System]** to select your operating system.

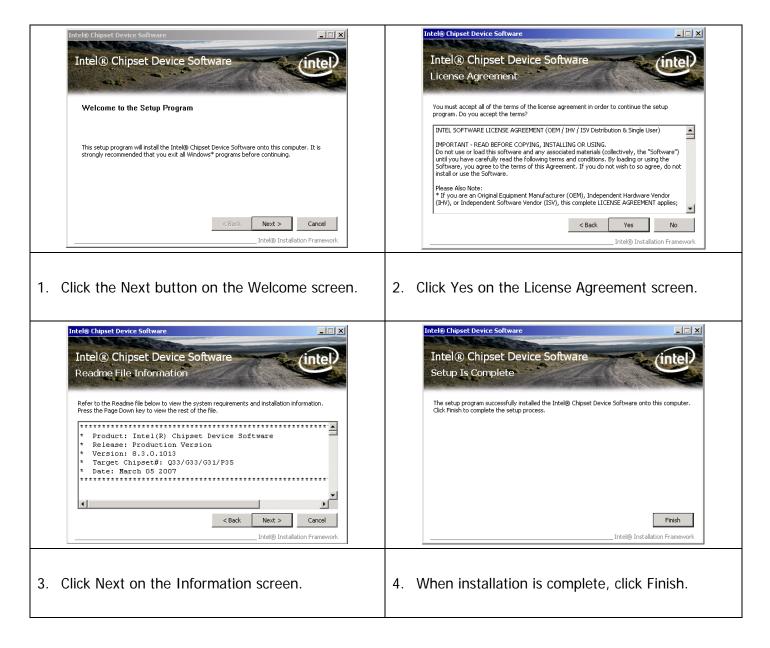


5. Select your POS model Number.

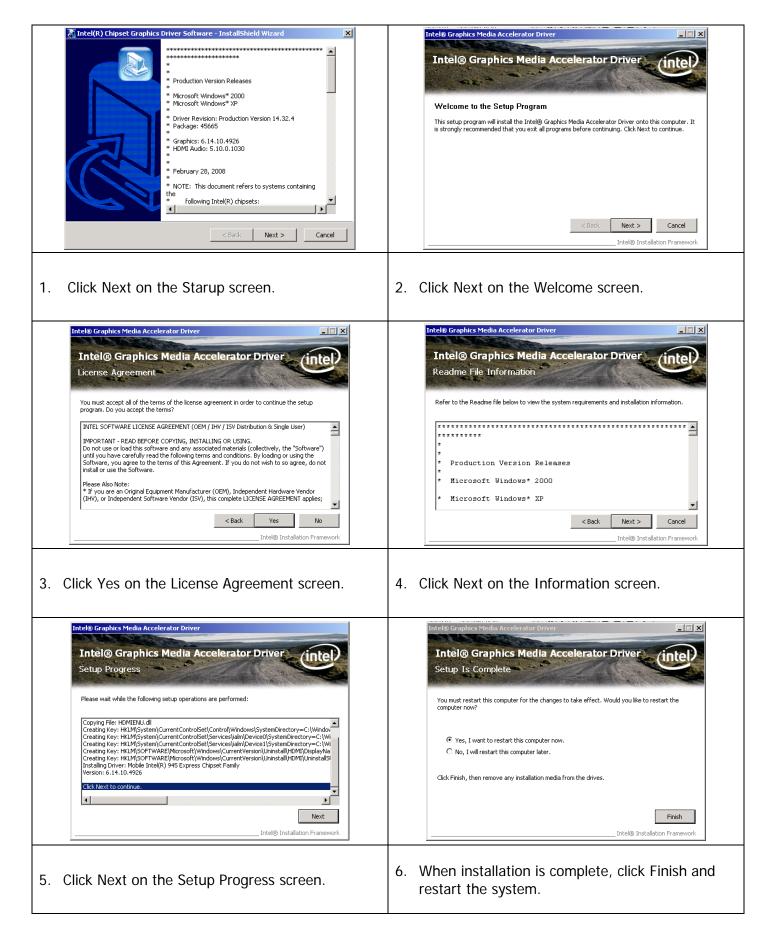
🛃 AdvanPOS		
Wall-Mount POS 🔹	Model Number	WP-7530-ER10
Windows XP 🔹		
WP-6211	Intel INF	Setup
WP-6221	VGA	Setup
WP-6511		
WP-6512 WP-6521	GLAN	Setup
WP-6522		
WP-6711	Audio	Setup
WP-6721		
WP-7530-ER10	Touch	Elo
WP-7530-PC10		
CP-2010	WD 320G Align	Setup
	User Manual	Open
	MB Driver	OPOS Peripheral Driver & Tool Explore DVD

6. Select the peripheral driver that you want to install and then follow on-screen instructions to install your driver or refer to following procedures specifying how every driver is to be installed.

Intel Chipset Driver Installation



Intel Graphics Driver Installation



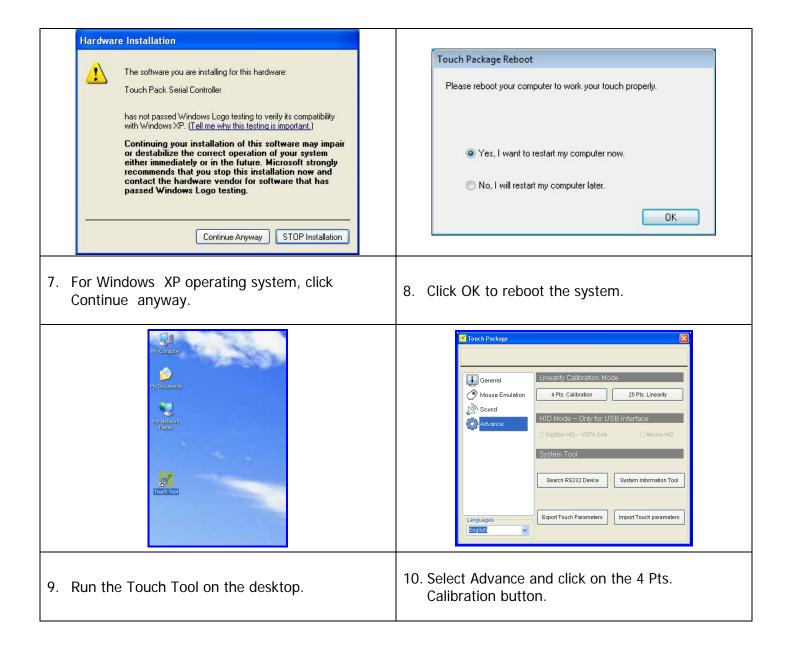
ELO Touch Screen Driver Installation

WinZip Self-Extractor Welcome to TE Touch Driver for Windows XP/Windows Vista/Windows 7 Installer. Driver Version 5.2.0 (10-07-2010) Click OK to continue. OK	WinZip Self-Extractor - SW601379_TETouch_5.2.0.exe To unzip all files in this self-extractor file to the specified folder press the Unzip button. Unzip to folder: Unzip to folder: Close Verwrite files without prompting When done unzipping open: .\Setup.exe
1. Click OK on the Welcome screen.	2. Click Unzip on the WinZip Self-Extractor screen.
Elo Touchscreen Setup (5.2.0.43) Fick the default language for the Elo Touchscreen Driver package. All Elo touchscreen applications will be displayed in the language selected below. Default Next > Cancel	Elo Touchscreen Setup (5.2.0.43) Welcome to Elo Touchscreen Setup. Vuelcome to Elo Touchscreen Setup. Install Serial Touchscreen Drivers Install USB Touchscreen Drivers Install APR Touchscreen Driver < Back
3. Select Default installation language, click Next.	 Select Install Serial Touchscreen Drivers, click Next.
Elo Touchscreen Setup (5.2.0.43) License Agreement Please read the following license agreement carefully. Press the PAGE DOWN key to see the rest of the agreement. End-User License Agreement BY DOWNLOADING AND/OR INSTALLING AND/OR USING THE SOFTWARE YOU ARE AGREEING TO BECOME BOUND BY THE TERMS OF THIS AGREEMENT, INCLUDING THIS SOFTWARE PRODUCT LICENSE AND LIMITED WARRANTY. IMPORTANT READ CAREFULLY: This Elo TouchSystems End-User License Agreement ("EULA") is a legal accept the times of the preceding license agreement? If you doose No, you will not have full touchmonitor functionality and setup will dose. To have full functionality you must accept the license agreement. <	Elo Touchscreen Setup (5.2.0.43) Select the COM ports to use with Elo serial touchscreens. Check the Auto-detection box if you want Setup to auto-detect COM ports currently connected to Elo devices. During Auto-detection, Setup will send data to each port which may temporarily interfere with some types of serial devices. Click Next to continue. Image: Auto-detect Elo touchscreens. Image: Auto-detect Elo touchscreens.
5. Click Yes on the License Agreement screen.	6. Select Auto-detect Elo devices, click Next.

Elo Touchscreen Setup (5.2.0.43)	Elo Touchscreen Setup (5.2.0.43)
Choose the COM ports from the list below to use with your touchmonitors. Al COM ports reported by your system are listed. COMS COMS COMS COM2 COM4 Once you have selected a COM port, dick Next to continue the installation.	You have selected the COM ports listed below to use with your touchmonitor. COM3 Cidk Next to complete the installation or click Back to change your selections. < Back Next > Cancel
7. Select COM3, click Next.	8. Click Next to confirm COM port selection.
Elo Touchscreen Setup (5.2.0.43) Setup Complete Setup has finished installing the Elo touchmonitor drivers. Click Finish to restart your system. After Windows loads, any Touchscreen monitors connected will be detected and installed. Keinish	Microsoft Windows You must restart your computer to apply these changes Before restarting, save any open files and close all programs. Restart Now Restart Later
9. Click Finish.	10. Click Restart Now to apply these change.

Abon Touch Screen Driver Installation

Touch Package - InstallShield Wizard	Touch Package - InstallShield Wizard				
	Choose Destination Location Select folder where setup will install files.				
Welcome to the InstallShield Wizard for Touch Package					
The InstallShield Wizard will install Touch Package on your	Install Touch Package to: C:\Program Files\Touch Package Change				
computer. To continue, click Next.					
and the second se					
	InstallShield				
< Back Next > Cancel	< Back Next > Cancel				
1. Click Next on the Welcome screen.	2. Click Next to confirm destination location.				
T. GICK NEXT OF THE WEICOME SCIECH.					
Touch Package - InstallShield Wizard	Touch Package - InstallShield Wizard				
Setup Type Select the setup type that best suits your needs.	Ready to Install the Program The wizard is ready to begin installation.				
Select from the options below.	Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit				
☑ Install RS232 driver	the wizard.				
Install multi-monitor driver					
InstallShield	InstallShield				
< Back Next > Cancel	< Back Install Cancel				
3. Select Install RS232 driver and click Next.	4. Click Install to begin installation.				
	_				
Touch Package - InstallShield Wizard					
InstallShield Wizard Complete	Vindows Security				
The InstallShield Wizard has successfully installed Touch	Windows can't verify the publisher of this driver software				
Package. Click Finish to exit the wizard.					
	Don't install this driver software				
	You should check your manufacturer's website for updated driver software for your device.				
	WORKS IN THE REPORT OF A DESCRIPTION				
	 Install this driver software anyway Only install driver software obtained from your manufacturer's website or 				
	disc. Unsigned software from other sources may harm your computer or steal information.				
	See details				
< Back Finish Cancel					
	1				
C. Click Finish to construct	6. For Windows 7 operating system, click Install				
5. Click Finish to complete.	this driver software anyway.				

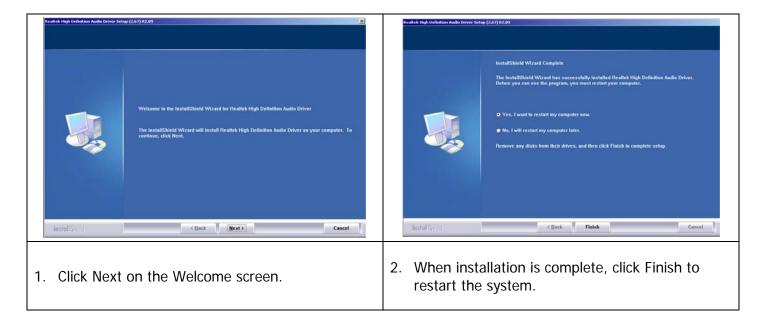


eGalax Touch Screen Driver Installation

GalaxTouch Welcome to the InstallShield Wizard for GalaxTouch The InstallShield Wizard will install eG alaxTouch on your computer. To continue, click Next. (Back Next > Cancel	EGataxTouch Setup Type Select the setup type that best suits your needs. Extra RS232 interface driver for eGalaxTouch controller. Please check the check box for RS232 touch controller. ☑ Install RS232 interface driver Install Shield
1. Click Next on the Welcome screen.	2. Select Install RS232 interface driver and click Next.
	CelaxTouch Setup Type Select the setup type that best suits your needs. If you want to use Multi-Monitor, please check the box. Support Multi-Monitor System InstallShield —
3. Select None and click Next.	4. Select Support Multi-Monitor System and click Next.
Choose Destination Location Select folder where setup will install files. Setup will install eGalaxTouch in the following folder. To install to this folder, click Next. To install to a different folder, click Browse and select another folder. Destination Folder C:\Program Files\eGalaxTouch Browse InstallShield	GelaxTouch Select Program Folder Please select a program folder. Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing folders list. Click Next to continue. Program Folder: Enclose for the existing folders: Administrative Tools Administrative Tools AMD VISION Engine Control Center. Games Maintenance Statup Tablet PC InstallShield < Back Next> Cancel
5. Choose Destination Location and click Next.	6. Select Program Folder and click Next.

eGalaxTouch	×	eGalaxTouch	
Setup Type Select the setup type that best suits your needs.		Setup Status	A.
Select the features you want to install, and deselect the features you do Click Next to continue.	not want to install.	eGalaxTouch is configuring your new software installation.	
		C:\Program Files\eGalaxTouch\ESC7000.txt	
InstallShield	*> Cancel	InstallSField	Cancel
Select to creat a shortcut and cl	ick Next.	8. New software installation.	

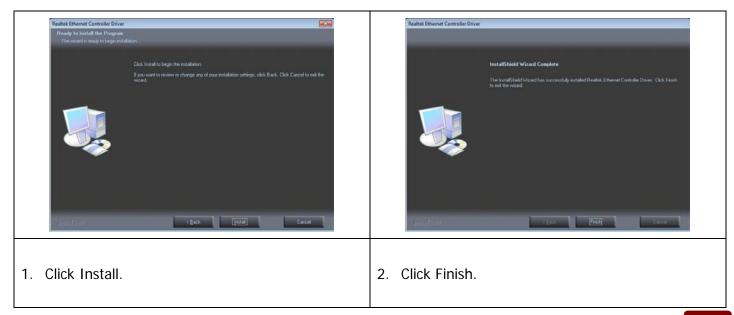
Audio Driver Installation



Ethernet Driver Installation for Windows XP

REALTEK GbE @ FE Ethernet PCI-E NIC Driver - InstallShield Wizard	REALTER GBE & F.E. Ethernet PCI-E. NIC Driver - InstallShield Wizard
and the second se	Ready to Install the Program The wood's ready to begin installation.
Welcome to the InstallShield Wizard for REALTER GBE & FE Ethemet PCI-E NIC Driver The installShield Wizard all install REALTER. GBE & FE Ethemet PCI-E NIC Driver on your computer. To continue, click Next.	Cick Install to begin the installation. If you want to serview or change any of your installation settings, cick Back. Cick Cancel to eait the weard.
Install/2003	Installitiedd
1. Click Next.	2. Click Install.
REALTEK GbE @ FE Ethernet PCI-E NIC Driver - InstallShield Wizard	
InstallShield Wizard Complete	
The Instal5Held Visued has successfully installed REALTEX. GBE LIFE Efferent PCLE NIC Drive. Click Finals to eail the vecoul	
fectall2edd:	
3. Click Finish.	

Ethernet Driver Installation for Windows 7



Wireless LAN Driver Installation (optional)

1. Enter the LR802UKN3_802.11bgn folder and	then run the IS_AP_STA_RT2870_D.exe.
Palink Wireless LAN - InstallShield Wizard	Ralink Wireless LIN - InstaltShield Wizard
Please read the following formula agreement confidy.	Select the setup type that best suits your needs.
RALINK Wedes: UBity to Window: 2000/07/vinta.Win7 Copyright (Charlaw). TECHNOLOGY: ORP. All Right Reserved.	Crosses to install. Instal drive and Raink WAAN URity Instal drive only Instal driv
I do not accept the terms of the Sense agreement	
Carcel	Carcel
2. Click Accept on the License Agreement screen.	3. Alternative, and then click Next.
Ratink Wireless LAN - InstatiShield Wizard Setup Type Setuct the setup lype that best puts your needs: Setuct the setup lype And Dest puts your needs: Setuct the setup lype And Dest puts your needs: Setuct the setup lype And Dest puts your needs: Relink Setuct the setup lype And Dest puts your needs: Relink Microsoft Zero Configuration Tool Microsoft Zero Configuration Tool Microsoft Zero Configuration Tool	Patient Workers LAN - Install/bidd Woard Ready to Install the Program The wood in mady to begin initialized Cick, Install to begin the initialized Image: State of the initialized in the initialized i
 For Windows XP operating system, select Configuration Tool. 	5. Click Install.
Patink Wireless LAN - InstallSheld Woard The InstallSheld Wicard is installing Rake, Weekss LAN Installink Peace Wal Peace Wal Coroll	Ralink Wireless LINI - InstallShield Wizard InstallShield Wizard Complete The InstallShield Wizard Complete The InstallShield Wizard Complete Relad Re
6. Wait as the WLAN driver is installed.	7. Click Finish.

🔀 Ra	AUI Profile	LLL Network	Advanced	Statistics	www.	Ø WPS	Radio On/Off	About
	Sorted by >>	🥥 SSID	⊘ Chann	el 🥥 : AP List			Show dBm	
AI O	AdvanPOS coslgiht Eric		ゆ11 ゆ6	b 9 T b 9 T	91%			-
	Infotrends itc-5F		105 105	69 7 6967	39%			
-	Rescan	Add to Profi	le Conne	ct				
8.							WLAN esktop.	

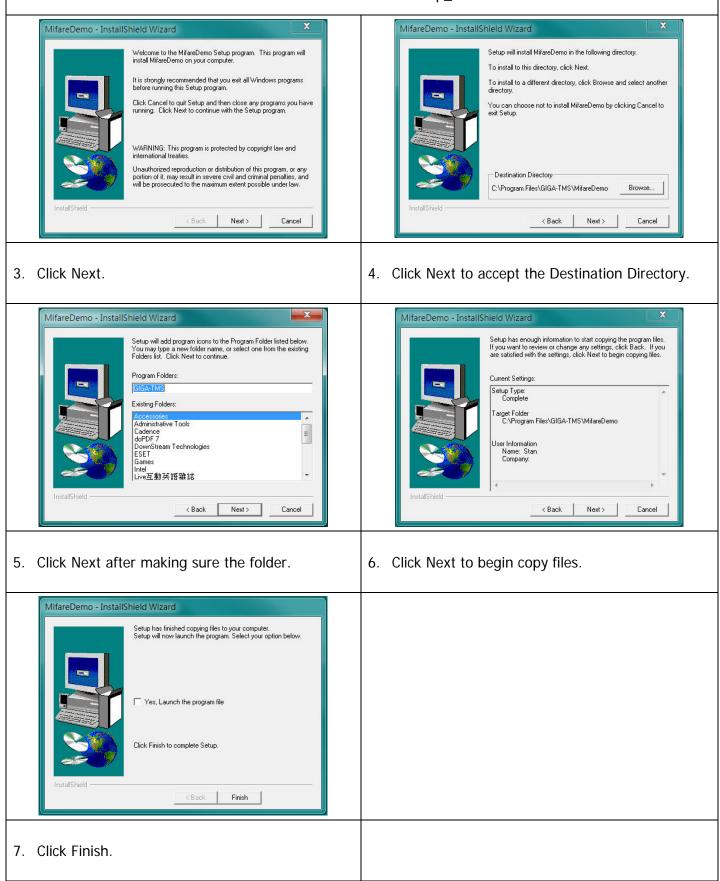
Rear Mount VFD USB-to-Serial Driver Installation (optional)

The WP-75X0 VFD port is a USB interface. The 9mm VFD uses a Serial interface, so in order to enable it, you must install the included USB-to-Serial interface driver.

1. First, plug in the VFD Module. 2. Enter the USB To COM Driver folder and then run utility program PL2303_Prolific_driverInstaller_v130. PL-2303 Driver Installer Program X PL-2303 Driver Installer Program X Setup Status 2 Welcome to the InstallShield Wizard for PL-2303 USB-to-Serial PL-2303 USB-to-Serial is configuring your new software installation. The InstallShield Wizard will install PL-2303 USB-to-Serial on your computer. To continue, click Next. 1 < Back Next > Cancel Cancel 3. Click Next on the Welcome screen. 4. Wait as the driver is installed. PL-2303 Driver Installer Program InstallShield Wizard Complete 2 The InstallShield Wizard has successfully installed PL-2303 USB-to-Serial. Click Finish to exit the wizard. K Back Finish Cancel 5. Click Finish.

RFID Driver Installation (optional)

- 1. First, plug in the RFID Module.
- 2. Enter the MF320U folder and then run the MifareDemoSetup_PSW00020.exe.



MSR Driver Installation (optional)

- 1. Plug in MSR module.
- 2. Select your MSR interface PS2 or USB.
- 3. For PS2 interface: Run the MSRfgSetup_V1_4R7_PSW00025.exe. For USB interface: Enter the **Software** folder and then run the HISD_MSR_PSW00003.exe.
- 4. Follow on-screen instructions to install your MSR driver.

Fingerprint Reader Driver Installation (optional)

- Plug in the 2-in-1 Fingerprint Reader and MSR module.
 Enter the **SDK** folder and then run the setup.exe.

🔛 DigitalPersona One Touch for Windows SDK - InstallShield Wizard	🙀 DigitalPersona One Touch for Windows SDK - InstallShield Wizard
Welcome to the InstallShield Wizard for DigitalPersona One Touch for Windows SDK	License Agreement Please read the following license agreement carefully.
The InstallShield(R) Wizard will install DigitalPersona One Touch for Windows SDK on your computer. To continue, dick Next.	END USER LICENSE AGREEMENT FOR DIGITALPERSONA® SOFTWARE DEVELOPMENT KIT (SDK) PRODUCTS
WARNING: This program is protected by copyright law and international treaties.	IMPORTANT - READ CAREFULLY: This DIGITALPERSONA END USER LICENSE AGREEMENT (the "EULA") is a legal agreement between you either as an individual or as an authorized representative of a business entity (hereafter referred to as "You" and/or "Your") and DigitalPersona, Inc. ("DigitalPersona"). DigitalPersona is willing to license to You the DigitalPersona software product accompanying this EULA, which may I accept the terms in the license agreement InstallShield
< Back Next > Cancel	< Back Next > Cancel
3. Click Next on the Welcome screen.	4. Click Next on the License Agreement screen.
DigitalPersona One Touch for Windows SDK - InstallShield Wizard Destination Folder Click Next to install to this folder, or click Change to install to a different folder. Install DigitalPersona One Touch for Windows SDK to: C:\Program Files\DigitalPersona\	DigitalPersona One Touch for Windows SDK - InstallShield Wizard Custom Setup Select the program features you want installed. Click on an icon in the list below to change how a feature is installed. Cick on an icon in the list below to change how a feature is installed. Com/Activex OCM/Activex Java This feature requires 7476KB on your hard drive.
InstallShield	Install to: C:\Program Files\DigitalPersona\ InstallShield Help Space < Back Next > Cancel
5. Click Next to accept the destination folder.	6. Click Next to begin installation.
DigitalPersona One Touch for Windows SDK - InstallShield Wizard Image: State of the state	DigitalPersona One Touch for Windows SDK - InstallShield Wizard Ready to Install the Program The wizard is ready to begin installation. Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard. InstallShield
<back next=""> Cancel</back>	< Back Install Cancel
7. To proceed with the installation, click Next.	8. Click Install to begin the installation.

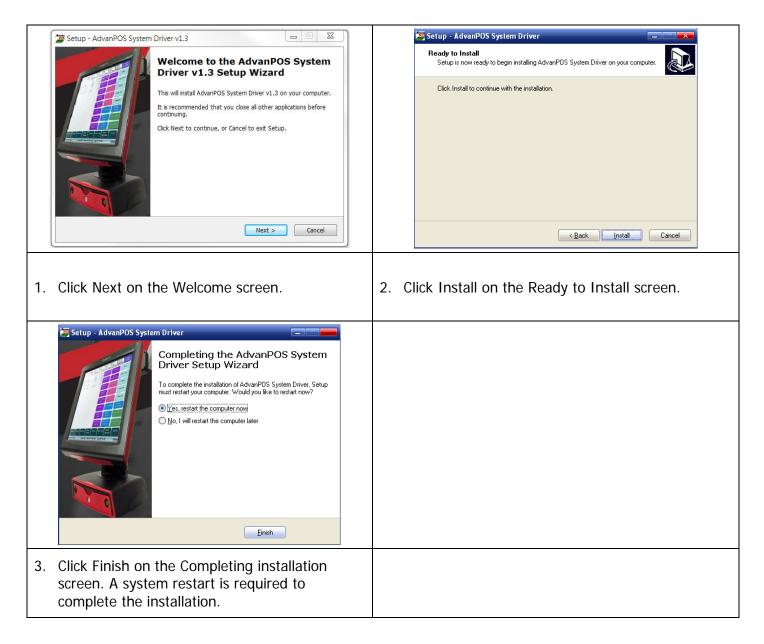
🛃 DigitalPersona One Touch for Windows SDK - InstallShield Wizard 📃 📼 📧	📅 DigitalPersona One Touch for Windows SDK - InstallShield Wizard
Installing DigitalPersona One Touch for Windows SDK The program features you selected are being installed.	InstallShield Wizard Completed
Please wait while the InstallShield Wizard installs DigitalPersona One Touch for Windows SDK. This may take several minutes. Status:	The InstallShield Wizard has successfully installed DigitalPersona One Touch for Windows SDK. Click Finish to exit the wizard.
InstallShield	< Back Finish Cancel
9. Wait as the driver is installed.	10. Click Finish.
📴 DigitalPersona One Touch for Windows SDK Installer Inf 🕴	
You must restart your system for the configuration changes made to DigitalPersona One Touch for Windows SDK to take effect. Click Yes to restart now or No if you plan to restart later.	
Yes No	
11. Click Yes to restart the system (required).	

IC Card Reader Driver Installation (optional)

- 1. Plug in the 3-in-1 MSR/I-Button/IC Card Reader module.
- 2. Enter the **EZ100PU Driver** folder.
- 3. Select your POS operating system and then run the setup.exe.

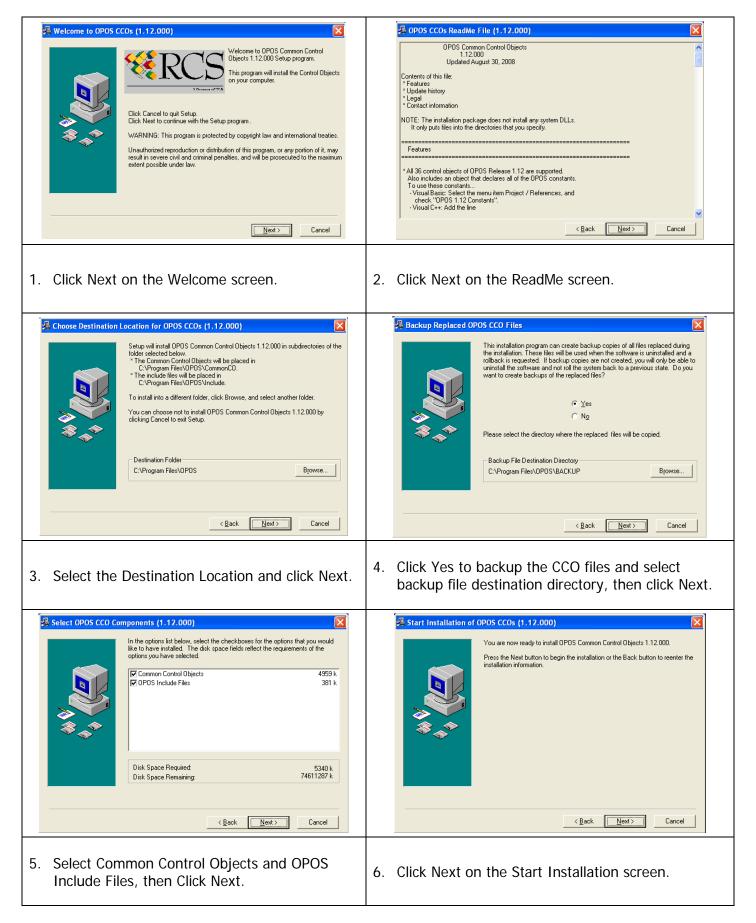
EZUSB v7.3 Driver - InstallShield Wizard Select the language for the installation from the choices below. English (United States)	Image: Second
4. Select language, click OK.	5. Click Next on the Welcome screen.
EZUSB v7.3 Driver - InstallShield Wizard Ready to Install the Program The wizard is ready to begin installation. Click Install to begin the installation. If you want to review or change any of your installation settings, dick Back. Click Cancel to exit the wizard. InstallShield	Installing EZUSB v7.3 Driver Installing EZUSB v7.3 Driver The program features you selected are being installed. Image: Status: Copying new files InstallShield VestallShield Reserved InstallShield Copying new files InstallShield Copying new files Copying new files
6. Click Install to begin the installation.	7. Wait as the driver is installed.
EZUSB v7.3 Driver - InstallShield Wizard Installing EZUSB v7.3 Driver The program features you selected are being installed. Please wait while the InstallShield Wizard installs EZUSB v7.3 Driver. This EZUSB v7.3 Driver Installer Information Please attach your device to this computer any time after the installation has finished. InstallShield Cancel	EZUSB v7.3 Driver - InstallShield Wizard InstallShield Wizard Completed The InstallShield Wizard has successfully installed EZUSB v7.3 Driver. Click Finish to exit the wizard. <tr< td=""></tr<>
8. Click OK on the Note screen.	9. Click Finish.

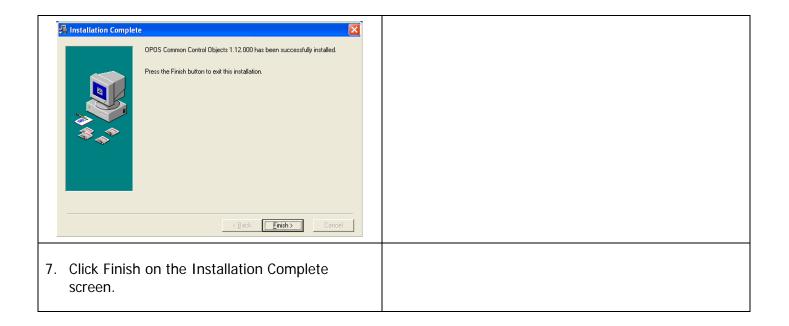
AdvanPOS System Driver Installation



OPOS CCO Driver Installation

The OPOS driver for the WP-75XX supports the MSR, I-Button (KeyLock), RFID, VFD (Line-Display) and Scanner. Before installing the OPOS driver, please make sure the AdvanPOS System Driver has been installed.





AdvanPOS OPOS Driver Installation

	🚟 Setup - AdvanPOS OPOS v1.3		📓 Setup - AdvanPOS OPOS v1.3
	Welcome to the AdvanPOS OPOS 1.3 Setup Wizard This will install AdvanPOS OPOS v1.3 on your computer. 1.5 recommended that you close all other applications before continuing. Cick Next to continue, or Cancel to exit Setup.		Ready to Install Setup is now ready to begin installing AdvanPDS OPOS v1.3 on your computer. Click. Install to continue with the installation. Kack Install Click. Install to continue with the installation.
1.	Click Next on the Welcome screen.	2.	Click Install on the Setup screen.
	Setup - AdvanPOS OPOS v1.3		
3.	Click Finish on the Completing installation screen.		

Appendix A. Sample C++ Cash Drawer Code for Windows

```
NOTE:
```

Requires installation of System Driver. Refer to the System Driver Installation section for instructions.

```
//1. Open Cash Drawer
// IOCTL Codes
#define GPD_TYPE 40000
#define ADV_OPEN_CTL_CODE
                                         CTL_CODE(GPD_TYPE, 0x900, METHOD_BUFFERED,
FILE_ANY_ACCESS)
#define ADV_STATUS_CTL_CODE
                                         CTL_CODE(GPD_TYPE, 0x901, METHOD_BUFFERED,
FILE_ANY_ACCESS)
void OpenDrawer(UCHAR uWhichDrawer)
{
// uWhichDrawer = 1 => CD#1, uWhichDrawer = 2 => CD#2
HANDLE hFile:
BOOL bRet:
UCHAR uDrawer = uWhichDrawer;
// Open the driver
hFile = CreateFile("\\\.\\ADVSYS",GENERIC_WRITE | GENERIC_READ,FILE_SHARE_READ |
FILE_SHARE_WRITE, NULL, OPEN_EXISTING, FILE_ATTRIBUTE_NORMAL, 0);
if (m_hFile == INVALID_HANDLE_VALUE)
ł
AfxMessageBox("Unable to open Cash Drawer Device Driver!");
return;
}
// Turn on the Cash Drawer Output (Fire the required solenoid)
bRet = DeviceIoControl(hFile, ADV_OPEN_CTL_CODE, &uDrawer, sizeof(uDrawer), NULL, 0, &ulBytesReturned,
NULL);
if (bRet == FALSE || ulBytesReturned != 1)
AfxMessageBox("Failed to write to cash drawer driver");
CloseHandle(hFile);
return:
}
CloseHandle(hFile);
}
//2. Get Cash Drawer Status
void GetDrawerState()
HANDLE hFile;
BOOL bRet;
// Open the driver
hFile = CreateFile(TEXT("\\\.\\ADVSYS"),GENERIC_WRITE | GENERIC_READ,FILE_SHARE_READ |
FILE_SHARE_WRITE, NULL, OPEN_EXISTING, FILE_ATTRIBUTE_NORMAL, 0);
if (m_hFile == INVALID_HANDLE_VALUE)
{
AfxMessageBox("Unable to open Cash Drawer Device Driver!");
return;
}
// Read the CD status
```

bRet = DeviceIoControl(hFile, ADV_STATUS_CTL_CODE, NULL, 0, &ReadByte, sizeof(ReadByte), &ulBytesReturned, NULL); if (bRet == FALSE || ulBytesReturned != 1) { AfxMessageBox("Failed to Read from cash drawer driver"); CloseHandle(hFile); return; } else { AfxMessageBox(ReadByte ? "Drawer Open": "Drawer Closed"); } CloseHandle(hFile); }

Appendix B. Sample VB.NET Cash Drawer Code for Windows

section for instructions.

Requires installation of System Driver. Refer to the System Driver Installation

```
Private Declare Function CreateFile Lib "kernel32" Alias "CreateFileA" (ByVal lpFileName As String, ByVal
dwDesiredAccess As Integer, ByVal dwShareMode As Integer, ByVal lpSecurityAttributes As IntPtr, ByVal
dwCreationDisposition As Integer, ByVal dwFlagsAndAttributes As Integer, ByVal hTemplateFile As IntPtr) As Integer
    Private Declare Function DeviceIoControl Lib "kernel32" (ByVal hDevice As IntPtr, ByVal dwIoControlCode As
Integer, ByRef lpInBuffer As Byte, ByVal nInBufferSize As Integer, ByRef lpOutBuffer As Byte, ByVal nOutBufferSize
As Integer, ByRef lpBytesReturned As Long, ByVal lpOverlapped As Integer) As Integer
    Private Declare Function CloseHandle Lib "kernel32" (ByVal hObject As Long) As Integer
    Public Shared Function CTL_CODE(ByVal DeviceType As Integer, ByVal func As Integer, ByVal Method As Integer,
ByVal Access As Integer) As Integer
        Return (DeviceType << 16) Or (Access << 14) Or (func << 2) Or Method
    End Function
    Dim DeviceHandle As Integer
    Const GENERIC READ As Long = &H80000000, GENERIC WRITE As Long = &H40000000
    Const FILE_SHARE_READ As Long = &H1, FILE_SHARE_WRITE As Long = &H2
    Const OPEN_EXISTING As Long = &H3, FILE_ATTRIBUTE_NORMAL As Long = &H80
    Const INVALID_HANDLE_VALUE As Long = & HFFFFFFFF
    Const ADVPORT_TYPE As Long = 40000, METHOD_BUFFERED As Long = 0, FILE_ANY_ACCESS As Long = 0
    Dim ADV_OPEN_CTL_CODE As Long = CTL_CODE(ADVPORT_TYPE, &H900, METHOD_BUFFERED, FILE_ANY_ACCESS)
    Dim ADV_STATUS_CTL_CODE As Long = CTL_CODE(ADVPORT_TYPE, &H901, METHOD_BUFFERED, FILE_ANY_ACCESS)
    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
        DeviceHandle = CreateFile("\\.\ADVSYS", GENERIC_READ Or GENERIC_WRITE, FILE_SHARE_READ Or FILE_SHARE_WRITE,
0, OPEN_EXISTING, FILE_ATTRIBUTE_NORMAL, 0)
        If DeviceHandle = INVALID_HANDLE_VALUE Then
            'Failed to Open Cash Drawer Driver
            Timer1.Enabled = False
            MsgBox("Error opening ADVSYS.sys. Error = " & Err.LastDllError)
        End If
    End Sub
    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button1.Click
        Dim iBytesRtn As Integer
        Dim iRet As Integer, iDrawer As Integer
        ' Open Drawer #1
        iDrawer = &H1
        iRet = DeviceIoControl(DeviceHandle, ADV_OPEN_CTL_CODE, iDrawer, 4, 0, 0, iBytesRtn, 0)
        If (iRet = 0 Or iBytesRtn \Leftrightarrow 1) Then
            MsgBox("Error opening ADVSYS.sys. Error = " & Err.LastDllError)
        End If
    End Sub
    Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button2.Click
        Dim iBytesRtn As Integer
        Dim iRet As Integer, iDrawer As Integer
```

```
' Open Drawer #2
iDrawer = &H2
```

NOTE:

iRet = DeviceIoControl(DeviceHandle, ADV_OPEN_CTL_CODE, iDrawer, 4, 0, 0, iBytesRtn, 0)

```
If (iRet = 0 Or iBytesRtn \Leftrightarrow 1) Then
        MsgBox("Error opening ADVSYS.sys. Error = " & Err.LastDllError)
    End If
End Sub
Private Sub Timerl_Tick(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Timerl.Tick
    Dim iBytesRtn As Integer
    Dim iRet As Integer, iStatus As Integer
    ' Get Drawer Status
    iRet = DeviceIoControl(DeviceHandle, ADV_STATUS_CTL_CODE, 0, 0, iStatus, 4, iBytesRtn, 0)
    If (iRet = 0 Or iBytesRtn \Leftrightarrow 1) Then
        MsgBox("Error opening ADVSYS.sys. Error = " & Err.LastDllError)
    End If
    If (iStatus = 0) Then
        StatusText.Text = "Cash Drawer(s) Closed"
    Else
        StatusText.Text = "Cash Drawer(s) Open"
    End If
End Sub
```

Appendix C. Sample VB6.0 Cash Drawer Code for Windows



Requires installation of System Driver. Refer to the System Driver Installation section for instructions.

Option Explicit On

Private Declare Function CreateFile Lib "kernel32" Alias "CreateFileA" (ByVal IpFileName As String, ByVal dwDesiredAccess As Long, ByVal dwShareMode As Long, ByVal IpSecurityAttributes As SECURITY_ATTRIBUTES, ByVal dwCreationDisposition As Long, ByVal dwFlagsAndAttributes As Long, ByVal hTemplateFile As Long) As Long Private Declare Function DeviceIoControl Lib "kernel32" (ByVal hDevice As Long, ByVal dwIoControlCode As Long, ByVal IpInBuffer As Any, ByVal nInBufferSize As Long, ByVal IpOutBuffer As Any, ByVal nOutBufferSize As Long, ByVal IpOverlapped As OVERLAPPED) As Long Private Declare Function CloseHandle Lib "kernel32.dll" (ByVal hObject As Long) As Long

'CreateFile Custom Variables Private Type SECURITY_ATTRIBUTES nLength As Long IpSecurityDescriptor As Long bInheritHandle As Long

End Type

DeviceIoControl Custom Variables Private Type OVERLAPPED Internal As Long InternalHigh As Long offset As Long OffsetHigh As Long hEvent As Long End Type

Dim DeviceHandle As Integer Dim SA As SECURITY_ATTRIBUTES Dim SA1 As OVERLAPPED Dim ADV_OPEN_CTL_CODE As Long Dim ADV_STATUS_CTL_CODE As Long

Private Const GENERIC_READ As Long = &H8000000 Private Const GENERIC_WRITE As Long = &H4000000 Private Const FILE_SHARE_READ As Long = &H1 Private Const FILE_SHARE_WRITE As Long = &H2 Private Const OPEN_EXISTING As Long = &H3 Private Const FILE_ATTRIBUTE_NORMAL As Long = &H80 Private Const INVALID_HANDLE_VALUE As Long = &HFFFFFFFF

Private Const METHOD_BUFFERED As Long = 0, FILE_ANY_ACCESS As Long = 0

Private Function CTL_CODE(ByVal IngDevFileSys As Long, ByVal IngFunction As Long, ByVal IngMethod As Long, ByVal IngAccess As Long) As Long CTL_CODE = (IngDevFileSys) Or (IngAccess * (2 ^ 14)) Or (IngFunction * (2 ^ 2)) Or IngMethod End Function

```
Private Sub Form_Load()
  '-1673527296 Come from c code (40000 <<16)
  ADV_OPEN_CTL_CODE = CTL_CODE(-1673527296, &H900, METHOD_BUFFERED, FILE_ANY_ACCESS)
  ADV_STATUS_CTL_CODE = CTL_CODE(-1673527296, &H901, METHOD_BUFFERED, FILE_ANY_ACCESS)
  DeviceHandle = CreateFile("\\.\ADVSYS", GENERIC_READ Or GENERIC_WRITE, FILE_SHARE_READ Or
FILE_SHARE_WRITE, SA, OPEN_EXISTING, FILE_ATTRIBUTE_NORMAL, 0)
  If DeviceHandle = INVALID_HANDLE_VALUE Then
     'Failed to Open Cash Drawer Driver
     MsgBox("Error opening ADVSYS.sys. Error = " & Err.LastDllError)
  End If
End Sub
Private Sub Command1 Click()
  Dim iBytesRtn As Long
  Dim iRet As Integer, iDrawer As Integer
  ' Open Drawer #1
  iDrawer = &H1
  iRet = DeviceIoControl(DeviceHandle, ADV_OPEN_CTL_CODE, iDrawer, 4, 0, 0, iBytesRtn, SA1)
  If (iRet = 0 Or iBytesRtn <> 1) Then
     MsqBox("Error opening ADVSYS.sys. Error = " & Err.LastDIIError)
  End If
End Sub
Private Sub Command2_Click()
  Dim iBytesRtn As Long
  Dim iRet As Integer, iDrawer As Integer
  ' Open Drawer #2
  iDrawer = \&H2
  iRet = DeviceIoControl(DeviceHandle, ADV OPEN CTL CODE, iDrawer, 4, 0, 0, iBytesRtn, SA1)
  If (iRet = 0 Or iBytesRtn <> 1) Then
     MsgBox("Error opening ADVSYS.sys. Error = " & Err.LastDIIError)
  End If
End Sub
Private Sub Timer1_Timer()
  Dim iBytesRtn As Long
  Dim iRet As Integer, iStatus As Integer
  ' Get Drawer Status
  iRet = DeviceIoControl(DeviceHandle, ADV_STATUS_CTL_CODE, 0, 0, iStatus, 4, iBytesRtn, SA1)
  If (iRet = 0 Or iBytesRtn <> 1) Then
     Timer1.Enabled = False
     MsqBox("Error opening ADVSYS.sys. Error = " & Err.LastDllError)
  End If
  If (iStatus = 0) Then
     Label1.Caption = "Cash Drawer(s) Closed"
  Else
     Label1.Caption = "Cash Drawer(s) Open"
  End If
End Sub
```