

AerPOS User's Manual

Version-0.3

AP-3435 15" Bezel Fanless POS system

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Record of Revision

Date	Specs Ver.	Description	Note
	V0.1	Initial	
	V0.2	System Back Cover Installation Notice	
2012/12/13	V0.3	Touch Utility Update	Raydium

Safety and Warranty

1. Read these safety instructions carefully.

2. Keep this user's manual for later reference.

3. Disconnect this equipment from any AC outlet before cleaning. Do not use liquid or spray detergents for cleaning. Use a damp cloth.

4. For pluggable equipment, the power outlet must be installed near the equipment and must be easily accessible.

5. Keep this equipment away from humidity.

6. Put this equipment on a reliable surface during installation. Dropping it or letting it fall could cause damage.

7. The openings on the enclosure are for air convection. Protect the equipment from overheating. DO NOT COVER THE OPENINGS.

8. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.

9. Position the power cord so that people cannot step on it. Do not place anything over the power cord.

10. All cautions and warnings on the equipment should be noted.

11. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient over-voltage.

12. Never pour any liquid into an opening. This could cause fire or electrical shock.

13. Never open the equipment. For safety reasons, only qualified service personnel should open the equipment.

14. If any of the following situations arises, get the equipment checked by service personnel:

- a. The power cord or plug is damaged.
- b. Liquid has penetrated into the equipment.
- c. The equipment has been exposed to moisture.
- d. The equipment does not work well, or you cannot get it to work according to the user's manual.
- e. The equipment has been dropped and damaged.

f. The equipment has obvious signs of breakage.

15. DO NOT LEAVE THIS EQUIPMENT IN AN UNCONTROLLED ENVIRONMENT WHERE THE STORAGE TEMPERATURE IS BELOW -20°C (-4°F) OR A BOVE 60°C (140°F). IT MAY DAMAGE THE EQUIPMENT.

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Chapter 1

Introduction

AerPOS (AP-3435) Introduction

Bezel Free AerPOS series reaches design concept of the Total Cost Ownership and balance the strong requirement for POS quality, AerPOS is implemented with Quality-Oriented, Space-Effective, Fanless Energy Saving. AP-3435 also provides a decent choice for noise-free environment applications with optimized product reliability.

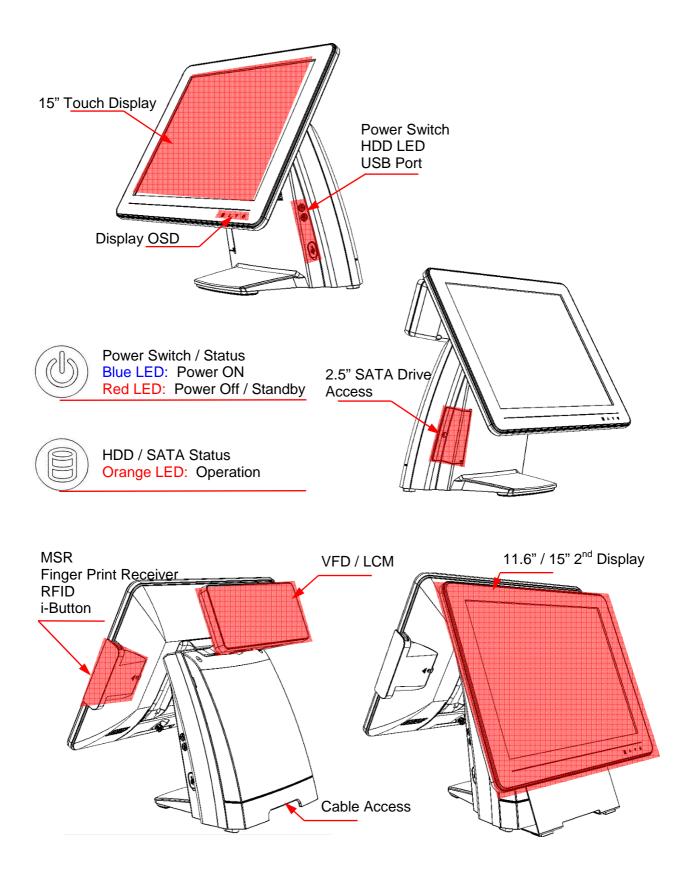
Main Features:

- The high quality of resistive touch or durable tempered glass of projective capacitive touch both are IP65 front panel compliant.
- Fanless solution for noise-free environment, mobile platform for green and energy saving.
- Modularized Design and Easy Maintenance for system parts, such as SATA storage, and RAM...etc.
- Various peripheral devices support and sufficient I/O connectivity requirements.
- Integrated VFD and the 2nd 15" / 11.6" LCD display.



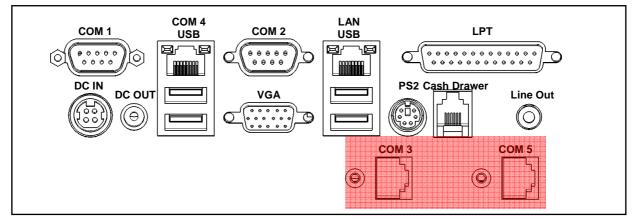
AP-3435 with MCR

A Quick Tour for AP-3435





Rear I/O Panel Connectivity



I/O Port	Connector Type	Description
COM 1	D-sub 9	Serial port COM 1
DC IN	DC IN connector	Connect the 12V power adaptor to this port
DC out	DC out connector	12V DC out put connect to 12V peripherals or devices
COM 4	RJ-45	Serial Port COM 4
USB	A type USB	Connect to standard A type USB devices
COM 2	D-sub 9	Serial port COM 2
VGA	D-Sub 15	Connect 2 nd LCD screen or CRT monitors
LAN	RJ-45	Connect to Ethernet
USB	A type USB	Connect to standard A type USB devices
LPT	D-sub 25	Standard LPT (Parallel port) connector for printers or KeyPro solution
PS/2	PS/2 connector	Connect the keyboard or mouse to this port
Cash Drawer	RJ-11	Connect to 12V Cash Drawer
Line Out	Earphone connector	Connect the speakers to this port
Optional IO po	orts are recommend to	be pre-installed in FEC factory
COM 3	RJ-45 (optional)	Serial Port COM 3
COM 5	RJ-45 (optional)	Serial Port COM 5

Aer POS AP-3435 Packing List

	Standard		Optional & Peripherals
1	15" AP-3435 AerPOS Touch Terminal	1	COM 3 / COM 5 optional Com Port
2	12V 90W Power Adaptor	2	RJ-45 to D-sub9 Convert Cable
3	AC Power Cable	3	MSR / RFID / Finger Print Receiver
			I-Button
		4	20x2 VFD / 20x2 LCM / 240x64 LCM
		5	15" / 11.6" 2 nd Display Bracket
		6	Wireless Lan Module

Chapter 2

Hardware Installation and Upgrading



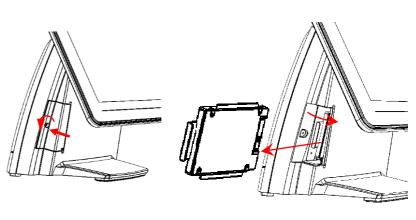
Do not remove the Display Module without switch off the terminal. Power must be switched off and power cord must be unplugged. Every time you service the system, please be aware of this.

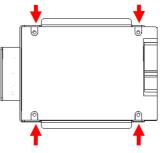
2.5" Hard Disk Drive Installation

- 1. Turn off power and remove power cord from the terminal
- 2. Unscrew the maintenance door at the front side of the terminal body
- 3. Flip the maintenance door and Extract 2.5" SATA storage bracket out

(no cable connected)

4. Place storage driver on the bracket and fasten it with 4 screws.





- 5. Restore the maintenance door to the system.
- 6. Fix the maintenance door with a screw.
- 7. Connect power cord to the system.

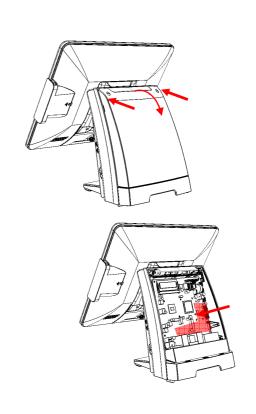
MSR / Finger Print Reciever / RFID / iButton Installation

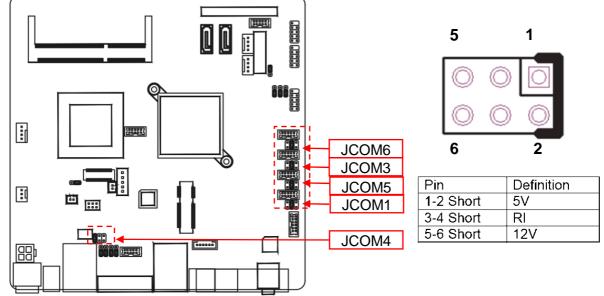
- Remove the plastic cover at the back of Touch Display Module
 Insert the MSR / RFID / Finger Print Receiver / Ibutton Module into USB A-Type Connector. Fix the Touch Display Module with one screw.
- 3. Make sure the USB connected and screw is fastened well.
- 4. If you are looking for the detail Utility of MCR, Finger Print Reader, I-button Reader, RFID Reader, please contact FEC's FAE.

COM Port Power Setting

5. Remove back cover of the terminal by two screws on the top side

6. Select COM port Power by jumper



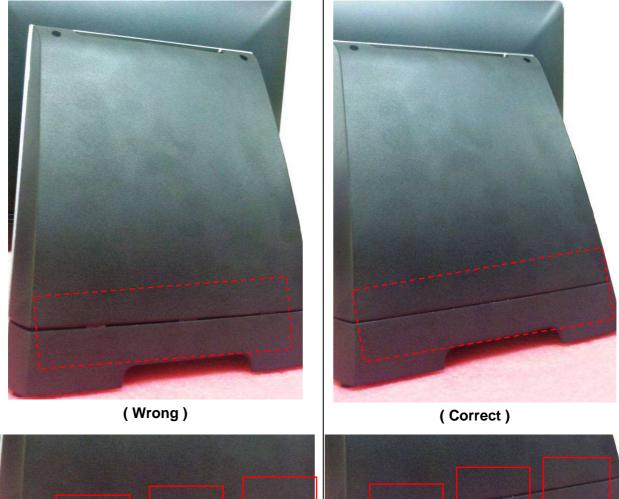


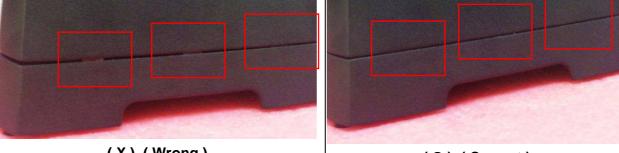
3. Please aware Pin1 location and make sure the correct power voltage is selected for serial devices.

Back Cover Installation Notice

According to the Thermal Reliability, please ensure the "Hooks of Back Cover" are well assembled into the terminal main chassis during the remove and re-installation back cover.











Integrated VFD / LCM Installation

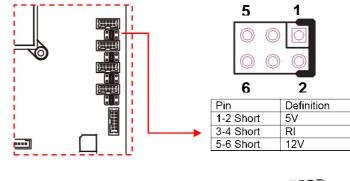
1. Remove the VFD Plastic cover and Back Cover on the terminal



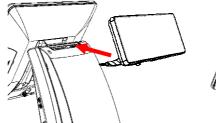
3. VFD is connected to the COM6 (COM6 has internal power which has been pre-set as 12V power)

** Please note When VFD/LCM is integrated, please remove the external COM3 from the Rear IO to prevent the serial devices are conflict with each other by using the same COM 3.

- 4. Make sure 12V is selected for COM6 (please aware Pin1 location)
- 5. Connect the COM 6 internal cable between Terminal and VFD / LCM Module and install the VFD/ LCM module with Terminal. Fasten one screw back and make sure VFD/LCM module is fixed.



1



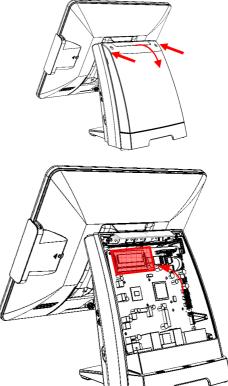


6. Tilt and Adjust the VFD / LCM angle into proper position.



Memory (DDRIII RAM) Installation

1. Unfasten and remove the back cover



2. Install DDRIII memory

3. Before restore the top cover, please check the thermal pad stays in the same position

15" / 11.6" 2nd Display Installation

1. Remove the VFD plastic cover

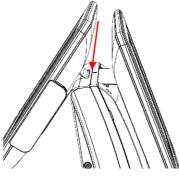
Assemble the 2nd screen 2. with bracket with 4 screws

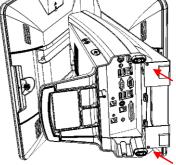
- Assemble the 2nd Screen 3. with bracket to Terminal.
- Fasten 3 screws 4. (1 on top, 2 underneath)



5.

cables



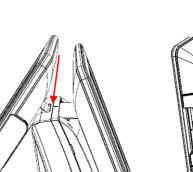


0

0

0







15" 1st Touch Display Installation & Swapping

1. Release 1 thumb screw at the back side of Display

2. Lift the Display Module up to disassemble from the main unit of terminal

- 3. Display and main body units are separated.
- 4. Reverse the process can assembly back the Touch Display Module.

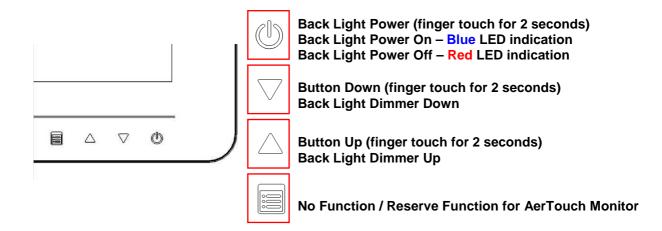
** please make sure the touch display module is firmly connected to the docking slot **

Note

During the process of disassembly and installation, please ensure the terminal is "Power Off" and remove AC. "Hot Swap" could activate internal protection to block touch display functionality.

OSD Function and Adjustment

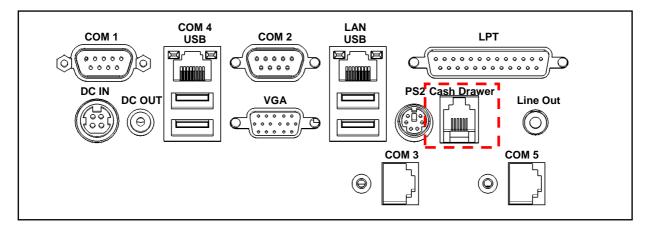
OSD function and adjustment



Cash Drawer Installation

Before connecting the cash drawer to the **AP-3435**, please make sure the drive voltage and cable pin assignment of the cash drawer matches the definition of the cash drawer port of **AP-3435**. Please refer to the jumper setting and pin definition for FH-5251 MB Manual.

Note: If the cash drawer cannot be detected by the system, please refer to trouble shooting.



Up to two cash drawers may be driven from this port. Driving voltage of the solenoid is DC+12V. I/O port 284 is used for drawer operation. A test program is supplied, for Linux and Windows, source code of which is available on request by software developers.

Value	Description	
0x284	Output address.	
0x284 read 8bit	Bit 2 => 0: low 1: high	
0x200	Sleep 200ms	
0x01	Open cashdrawer1 value.	
0x02	Open cashdrawer2 value.	
0x04	Close cash-drawer value.	
0x04	Cash-drawer status mask.	

Chapter 3

Software Installation and Setup

AP-3435 comes with a variety of drivers for different operating systems.

You can download all the necessary drivers and utilities from http://www.fecpos.com.

Please follow this installation sequence.

Driver installation sequence:

SMbus Driver-> Chipset Driver -> VGA Driver -> LAN Driver -> Audio Driver -> Touch Tools

SMbus Driver Installation

SMbus Driver Installation for Windows XP

- 1. Download drivers from FEC website or insert the Driver CD into your CD ROM Drive.
- 2. Double click **Setup.exe**, and Click **Next** to start driver installation



3. Click Yes for license agreement

ntel® Chipset Device Software	
Intel® Chipset Device Software	e
You must accept all of the terms of the license agreement in order to continue the setup program. Do you accept the terms? 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 n install or use the Software. 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	ot
< Back Yer No Intel® Installation Fran	

4. choose Next for the following steps



5. Finish and Restart system.



Chipset Driver Installation

Intel ATOM D525 Chipset Installation Utilities for Windows XP

1. Download drivers from website or insert the CD into your CD ROM Drive.



2. Open Setup.exe and Click Next.



3. Read the License Agreement and click Yes.



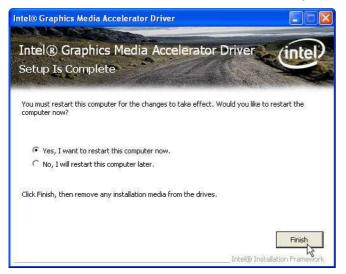
4. Click Next and the drivers for the Intel Chip set will install.



5. Please wait while the setup program processing.



6. When the 'Setup COMPLETE' message appears click Finish to restart your computer.



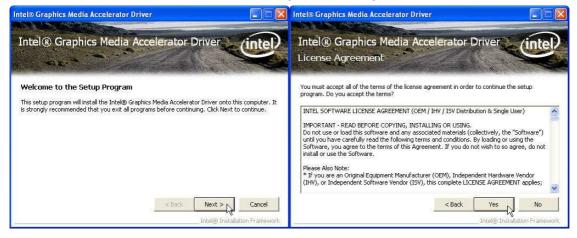
VGA Driver Installation

GMA3150 driver installation for Windows XP

- 1. Download drivers from website or insert the CD into your CD ROM Drive.
- 2. Execute Steup.exe



3. Select Next and click Yes of License Agreement Page.



4. Select Next to continue driver installation.



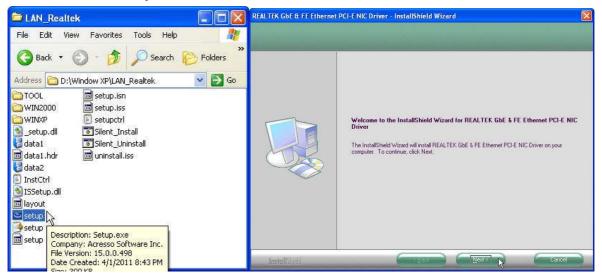
5. Finally, Finish and Restart the system



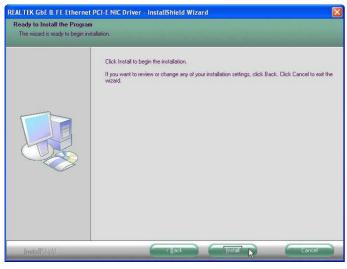
LAN Driver Installation

Realtek RT8111E LAN Driver Installation for Windows XP

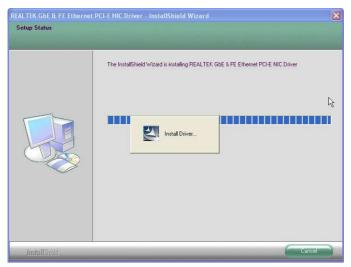
- 1. Download drivers from website or insert the CD into your CD ROM Drive.
- 2. Execute Setup.exe.



3. Click Next to continue



4. Please wait while processing.



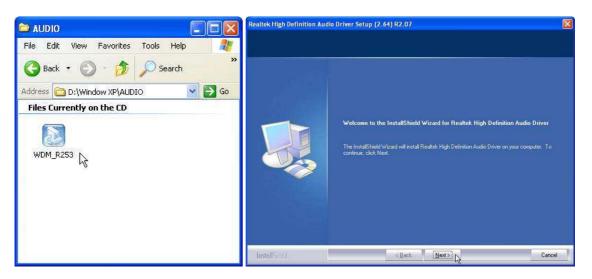
5. Click Finish to complete the installation procedure. REALTEK GDE & FE Ethernet PCLE NIC Driver - InstallShield Wizard



Audio Driver Installation

Realtek ALC269 Audio Driver Installation for Windows XP

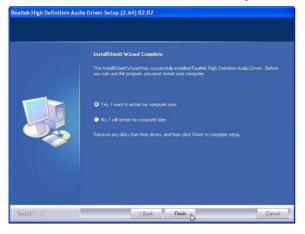
- 1. Download drivers from website or insert the CD into your CD ROM Drive.
- 2. Double click WDM_R253.exe.



3. Click Next to continue.



4. Click Finish and restart the system.



FEC AUO Project–Capacitive Touch Utility(Raydium controller)

FEC Projective – Capacitive Touch Utility Introduces:

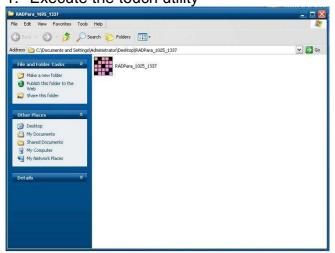
- 1. Mode of FEC Capacitive Touch Panel and default settings
- 2. Capacitive Touch Sensitivity
- 3. Right Click Function Setting
- 4. Double Click Function Setting
- 5. F/W Reading or F/W Update

Mode of FEC P-Capacitive Touch Panel and Default Settings

The default setting of FEC P-CAP touch will be always "Mouse Mode" with Single Touch as the factory default setting. If the application requires Multi Touch (Dual Touch), FEC P-CAP touch can also be accordingly set as "Touch Mode" (Dual Touch with two fingers) via Touch Utility, but it has to be in Win7 or POS Ready 7 OS environment.

	Win XP, POS Ready 2009	Win7, POS Ready7
Mouse Mode	Yes	Yes
	No Driver Needed	No Driver Needed
Touch Mode	N/A	Yes
		No Driver Needed

Mode setting can be done in the utility:



1. Execute the touch utility

2. Keep the Value of Vid as "8137"; Value of Pid as "1", then Click "Link" Button

(before it links, if it is factory default setting Mouse Mode, please keep Pid Value as "1"; if it is set as touch mode, please make Pid Value as "3")

erformance Config	li -		
User Vid : 8137	Pid :	Link	Read
-Switch		-L1	Set
C Touch			Default
C Mouse Sensitivity	e Mode	(Default : 20) _	Erase
Assist Double Cli	ck (Pixel)	(Default : 30) -	Bum
Right Click delay	-	(Default : 2)	
Full binary fi	le (*.bin) path		
Connect C	ору		

3. "Connection OK", you will see a window shows about the connection OK

User Vid 8137 Pid 1	Link	Read
Switch		Set
C Touch Mode		Default
C Mouse Mode Sensitivity	(Default : 20)	Erase
Assist Double Click (Pixel)	(Default : 30)	Burn
Right Click delay	(Default : 2)	
Full binary file (*.bin) path	Rad	para_102 🔀
Connect Copy		
FW version :	Lo	nnecting OK !

4. after the successful connection, Click "Read" button, it will show some default status of touch utility

Vid: 8137 Pid:	1		Read
Switch			Set
 Touch Mode Mouse Mode 			Default
Sensitivity	20	(Default : 20)	Erase
Assist Double Click (Pixel)	30	(Default : 30) -	Burn
Rīght Click delay	2	(Default : 2)	
Full binary file (*.bin) (path		

P-Capacitive Touch Sensitivity

The P-Capacitive Touch Sensitivity is relating to humidity of environment, humidity of finger tips or touching area size of finger tips. Thus, if the application requires more or less touch sensitivity, it can also be adjust by utility.

 After the successful linked connection with touch controller, you might key in the value to adjust the touch sensitivity. (the value is form "0" ~ "100", "0" means the highest sensitive "100" means the lowest sensitive) (Before the adjustment, please note the default factory setting "20" is the most optimized to fit with the majority of POS environments.)

Iser			
/id: 8137 Pid:	1	Link	Read
Switch			Set
C Touch Mode			Default
<u>● Mouse Mode</u> Sensitivity	20	(Default : 20) _	Erase
Assist Double Click (Pixel)	130	(Default : 30) -	Burn
	100		
ight Click delay	2	(Default : 2)	
. Full binary file (*.bin)	path		
Connect Copy			

 After key in a proper Value, Click "Erase" → "Set" → "Burn" step by step, then the certain value of sensitivity is applied into touch controller. Reboot the system to finalized utility setting.

id: 8137 Pid:	1	Link	Read
witch			Set
C Touch Mode		L	Default-
 Mouse Mode ensitivity 	20	(Default : 20)	Erase
ssist Double Click (Pixel)	30	(Default : 30) -	Burn-
ight Click delay	2	(Default : 2)	
Full binary file (*.bin) Full binary file (*.bin)	Dath		

Right Click Function Setting

The FEC P-CAP touch is simulating a USB mouse; therefore it has also the right click function of normal mouse. When finger tip stays on the touch glass for more than 2 seconds (factory default setting is 2 sec), right click will occur. If the application require longer times for right click function, it can be adjusted via the utility.

 After the successful linked connection with touch controller, you might key in the value of Right Click delay. (Value unit is second. it means the bigger value you key in, the longer delay second it will be.) (Before the adjustment, please note the default factory setting "2" sec is the most optimized to fit with the majority of POS environments.)

lser /id: 8137 Pid:	1	Link	Read
witch			Set
C Touch Mode			Default
 Mouse Mode iensitivity 	20	(Default : 20)	Erase
ssist Double Click (Pixel)	30	(Default : 30) -	Burn
light Click delay	2	(Default : 2)	
. Full binary file (*.bin)	path	!	

 After key in a proper Value, Click "Erase" → "Set" → "Burn" step by step, then the certain value of sensitivity is applied into touch controller. Reboot the System to finalized the utility setting.

ser d: 8137 Pid: [1	Link	Read
vitch			Set
C Touch Mode			Default
 Mouse Mode Insitivity 	20	(Default : 20)	Erase
sist Double Click (Pixel)	30	(Default : 30)	Burn
ght Click delay	2	(Default : 2)	
Full binary file (*.bin) p	bath		

Double Click Function Setting

Due to the application and user preference, the timing of double click is always required differently. However, FEC P-CAP touch is a simulate device as USB mouse, therefore the sensitivity of double click can be easily adjust by default mouse utility in any of windows OS.

F/W Reading and F/W Update

The touch F/W can be updated by the utility.

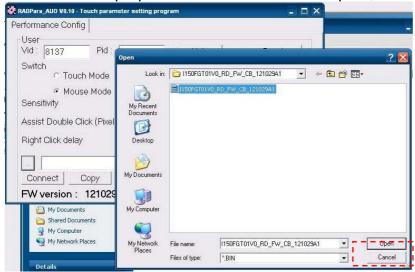
1. F/W current Status Reading, after a successful linked connection. It will show the touch controller F/W Version at the bottom of utility window.

ser id : 8137 Pid : [1	Link	Read
witch			Set
 Touch Mode Mouse Mode 			Default
Sensitivity	20	(Default : 20)	Erase
Assist Double Click (Pixel)	30	(Default : 30) -	Burn
Right Click delay	2	(Default : 2)	
Full binary file (*.bin) p Connect Copy	path		

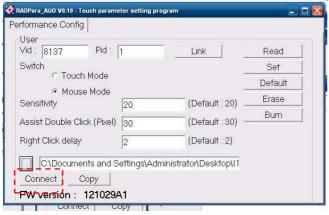
2. However, if F/W needs to update, first Click the square button (circled in red as following) to locate the path of proper BIN file.

lser /id: 8137 Pid:	1	Link	Read
witch			Set
 Touch Mode Mouse Mode 			Default
ensitivity	20		Erase
ssist Double Click (Pixel)	30	(Default : 30) -	Burn
ight Click delay	2	(Default : 2)	
Full binary file (*.bin) Full binary file (*.bin)	1.00		

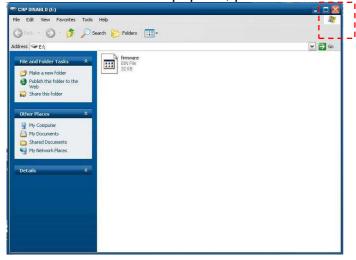
3. Choose the proper BIN file from the correct path, then "open"



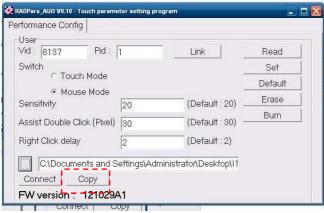
4. Then Click "Connect" button for further step



5. A new windows will pop out, please close this pop out windows and back to the utility.



6. Click "Copy" and wait for 1 minute for the new F/W applies into the controller and recalibration.



7. Firmware updated, Click "OK" and reboot the terminal to finalized the utility setting.

erformance Config			
User Vid : 8137 Pid :	1	Link	Read
Switch	1		Set
C Touch Mode			Default
 Mouse Mode Sensitivity 	20	(Default : 20)	Erase
Assist Double Click (Pixe	1	(Default : 30) -	Burn
Right Click delay	2	(Default : 2)	
C:\Documents and Connect Copy FW version : 12102	Ĩ	ministrator\Desktop\l2 Rad	Ipara_1 🔀

FEC-AUO Capacitive Touch Calibration

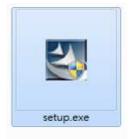
This Capacitive Touch has auto calibration controller via USB interface. There are two different methods which can initiate the touch auto calibration: (1) Reboot the Terminal. (2) Switch Off the Display Module then Switch On Again

Note Capacitive touch screen will not operate with either a gloved hand or with a mechanical stylus. It is made of glass, which makes it extremely durable and scratch resistant. Capacitive touch might need the calibration when too many water or liquid stays on the glass during touch operation or the humidity goes too high to meet 80% non density. Thus, FEC recommends users to keep the liquid from the touch glass and calibrate the touch screen.

EETI TouchKit Tools Installation

EETI TouchKit Installation for Windows XP

- 1. Down load Touch Kit for WinXP
- 2. Execute Setup.exe



3. Click Next



4. Choose "None" and Click Next for further installation process



- 5. Click OK to close the pop-up dialog.

 TouchKit InstallShield Wizard

 If you are trying to install the USB touch device, please make sure that your touch monitor or touch controller's USB

 rable is plugged into the computer now.

 Please close the "Found New Hardware Wizard" dialog when it pop-up.
- 6. Click "Support Multi-Monitor System" and then Next to continue.



7. Click Next and choose a program folder to "Touch Kit", then "Next"

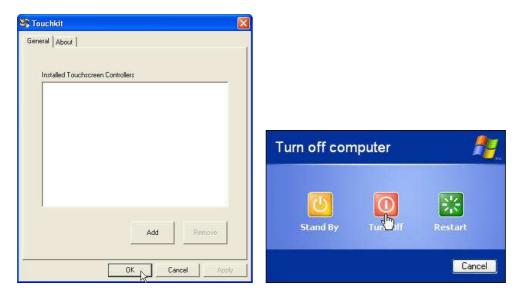


8. Touch Controller found in USB, then Click Yes

TouchKit	
Setup Status	Touchkit
Touchkit is configuring your new software installation.	
Instatished	Cancel

9. Click OK and turn off the computer to restart your system again.

After the system finish rebooting follow the instruction to calibrate the Touch screen.



EETI TouchKit Installation for Windows 7

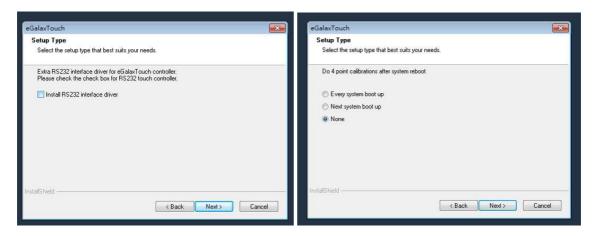
- 1. Down load Touch Kit for Win 7 (setup.exe)
- 2. Execute Setup.exe



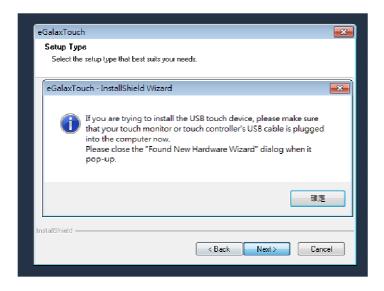
3. Click Next

egelesetrouch Install eGalaxTouch		eGalaxTouch
		Select the setup type that best suits your needs.
	e Galas Touch Est Wiskome to the Install Shield Wiscard for editation Found The Install Shield Wiscard for establish Touch on your coupling Touch Touch Touch Touch	Extra PS/2 interface driver for eGalaxT ouch controller. Please check the check box for PS/2 touch controller.
	(Sect Net) Carel	InstallShield Cancel

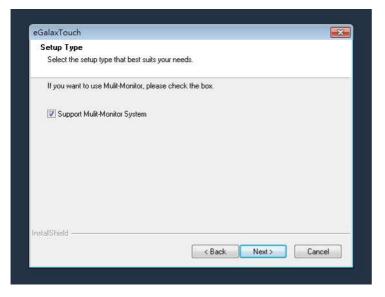
4. Un-tick "Install RS232 interface driver" and Click "Next" to go for further process.



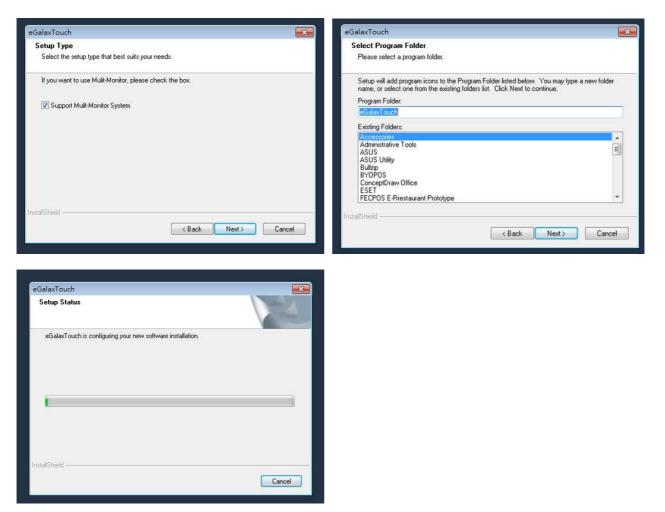
5. Click "Yes" and confirm the USB touch controller is plugged.



6. Click "Support Multi-Monitor System" and then Next to continue.



7. Click Next



8. Click OK and turn off the computer to restart your system again.

After the system finish rebooting follow the directions to calibrate the Touch screen.



TouchKit Control Panel

This section explains the different options in the TouchKit control Panel.

General tab

The general tab allows you to:

• Manage the touch screen controller you installed.

Touchkit : Ser	ial Controlle	0		
Edge Compen General	sation Setting	Ha 	rdware Tools	About Display
Installed Touch	nscreen Control	ers		
Serial Controller				
			Add	Remove
		ок] Car	icel Apply

Tools tab

The tools tab allows you to:

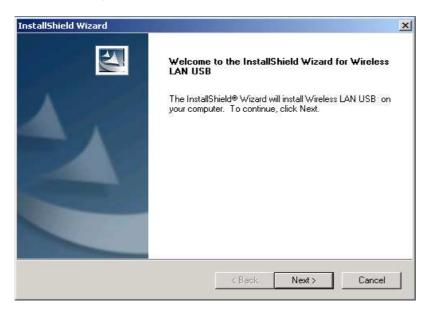
• Calibrate the touch screen with the **4 Points Calibration** button.

General	n Setting	Hardware Tools	About Display
inearization Curve			
5 			
4 Points Calibration	Do 4 poi	nts alignment to matc	h display.
Clear and Calibrate Clear		arization parameter a t.	ind do 4 points
Linearization	Do 9 points linearization for better touchscre linearity.		etter touchscreer
Draw Test		test to verify the tou	ch accuracy.

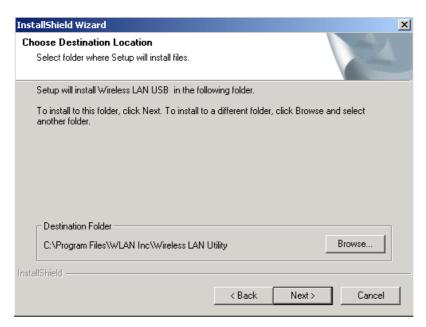
Wireless LAN Driver Installation

Wireless LAN Driver Installation for all Windows Operating Systems (Optional)

- 1. Download drivers from website
- 2. Run Setup.EXE



3. Click Next



Specifications

Chapter 4

AP-3435 Specifications

Ae	er POS	AP-3435	Fan Less	
	Chipset	Intel Atom		
	Processor	D525	1.8G	
Main	Memory	DDR3 Stan Max		
Specifications	Power Supply	12V S	90W	
	Thermal	Fanl	ess	
	Storage Device	1 x 2.5" SATA	A Driver Bay	
	Speakers	Internal Speaker 2W x 2		
	Display Design	15" True Flat (Ultra Slim) Bezel Free		
Touch	Touch	Projective-Capacitive (Tempered Glass)	5W Resistive	
Display	B	LED	CCFL	
		350 nits	250 nits	
	Backlight MTBF	50 K hours	30 K hours	
	MSR	Track 1/2/3, USB interface		
	Finger Print Reciever	Optical Finger Print Receiver	, USB interface	
	RFID Reader	13.56M Hz RFID reader, US	B interface	
	I - Button Reader	USB interface		
Peripherals	Optional COM Port	Additional COM 3 & COM 5		
&	WireLess LAN	802.11.b.g.n wireless LAN ,	JSB interface	
Optionals	VFD	(Integration Type) 20x2 (9mm) Character Mode		
	LCM	(Integration Type) 20 x 2 Ch (Integration Type) 240x64 G		
	2 nd Display	(Integration Type) 11.6" / 15	" 2nd Monitor	
	Brochure	B5 Brochure Bracket		

Chapter 5



Please note that the following troubleshooting guide is designed for people with strong computer hardware knowledge or Engineers and Maintenance.

Touch Panel Does Not Work

- A) Check "Touch Display Module" is connected well with terminal.
- B) Check HID USB touch device is detected by OS.
- **C)** (Resistive Touch) Check if the EETI driver or the TouchKit driver has been properly installed. Or try to re-install again (Please refer to the EETI driver and touch kit installation).
- **D)** (Capacitive Touch) Check if the FEC-AUO Capacitive touch is automatically detected by Windows 7, or properly installed the touch driver in Windows XP.
- E) Check well cabling between touch panel and touch controller
- **F)** (Capacitive Touch Calibration) Reboot the system, and the Capacitive Touch can be calibrated automatically.

OSD Panel Cannot Work Precisely

- A) Please touch each single OSD button for more than two seconds in order to trigger the function.
- **B)** Make sure the finger is not touching more than one button each time.

Cannot Detect SATA Storage HDD/SSD

- A) Make sure storage device is well connected in the Sata Drive Bay.
- B) HDD power cable is not connected properly to the main board or it could be defective.
- C) Check CMOS setup, set SATA HDD to Auto Detect.
- **D)** On-board SATA port could be defective.

PS/2 Keyboard Is Not Functioning Normally

- A) Make sure the keyboard is properly connected to the PS/2 keyboard port before the system is powered up.
- **B)** Check that the LED on the keyboard goes on then off after power on. If yes, the keyboard is getting power correctly.
- **C)** The main board could be defective.

LAN Is Not Functioning Properly

- A) Check if the LAN driver is installed properly.
- B) Check if there are any IRQ conflicts.
- **C)** Check if the RJ45 cable is properly connected.
- D) The on-board LAN chip could be defective.

COM1 ~ COM5 Are Not Functioning Properly

- A) Check if the I/O ports are enabled in the CMOS setup.
- B) Check if there are any IRQ conflicts.
- C) The main board or I/O cable could be defective.

Cash Drawer Port Is Not Functioning Properly

- A) Make sure the pin assignment matches between the cash drawer and the RJ11 cash drawer port.
- B) Verify if the digit I/O port address and bit are correct.
- C) The main board could be defective.