

User Manual

EC-VP-1100 / EC-VP-1100i3

All-in-one Touch POS Terminal

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EC-VP-1100 / EC-VP-1100i3 User Manual – V1

Thank you for purchasing the EC-VP-1100 / EC-VP-1100i3 all in one touch POS terminal. We are committed to use up-to-date technology and provide better after-sales service continuously. Please take time to read this user manual before system installation.

Note: Information in this user manual may change without prior notice

1. Safety Information

- Make sure the power voltage are correct and the ground connection of the power outlet is working properly before plug in the electricity.
- During lightning storm, unplug the network cable, power cable and any other connections.
- Turn off power before connect any devices (except USB devices) to the terminal.
- Do not attempt to open the chassis. There is a possibility of electric shock. For service, contact the authorized service provider.
- Do not spill liquid on the terminal or place any objects into the ventilation holes. It may cause short-circuit for the internal components and cause a fire or electric shock.
- After the computer is stored below temperature of 10 degree, put the machine at room temperature (10 35 degree) in the original packing for not less than two hours to resume to room temperature before operation. This is to avoid condensation that might bring electrical damage.
- Keep the terminal clean, dry, away from dust, moisture and direct sunlight.
- Do not use harsh chemicals or strong cleaning solvents to clean the LCD or touch panel. Use a soft terry cloth with mild cleaning liquid.
- Do not share the same power outlet with high power electrical appliances, keep distance from high level magnetic interference.
- Do not use sharp pointed objects to operate, it will cause damage to the screen.

When the following occurs:

- Water go in the POS terminal;
- Physical damage accidentally;
- Burning smell from the terminal; disconnect the power supply immediately, unplug the power cord and contact a qualified service technician.

2. Electromagnetic Compatibility Statement

FCC NOTICE

This device complies with Part 15 of FCC Rules. Operations are subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

EUROPEAN COMMINITY (CE) MARK FOR CONFORMITY

This product is in conformity with the protection requirements of EU Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility. Logic Controls cannot accept responsibility for any failure to satisfy the protection requirement resulting from non-recommended modification of the product. This product has been tested and found to comply with the limits for Class A Information Technology Equipment according to CISPR 22/European Standard EN 55022. The limits for Class A equipment were derived for commercials and industrial environments to provide reasonable protection against interference with licensed communication equipment.

3. Specification

EC-VP1100 / EC-VP1100i3		
MAIN UNIT	Processor	EC-VP-1100: Intel® Bay Trail-D J1900 up to 2.42Ghz EC-VP-1100i3: Intel® i3 Skylake 6100 (3M Cache, up to 2.3Ghz) Dual Core
Memory [DDRIII 4 GB (up to 8GB)
	Storage	64GBSSD Optional 128GBSSD / 500GB HDD or Above
	LAN	10/100/1000 Mbps Gigabit Ethernet
	I/O interface	3 X RS-232 1 X RJ11 (DK Port) 1 X RJ45 Gigabit LAN 1 X Customer Display (Reserved) 1 X USB 3.0 3 X USB 2.0; 1 X MSR (Reserved) 1 X TOUCH (Reserved) 1 X 12V DC Input 1 X 12V DC Out
VGA Signal	LVDS	
	Operation System	Windows 7, POSReady 7, Windows 8.1, Windows Embedded 8.1 industry, Windows 10,Windows IOT, Lunix
LCD Panel	Viewing Area	15 Inches
	Resolution	1024 X 768
	Active Display Area (mm)	304.1(W) X 228.1(H)
	Display Color	16,777,216 Colors
	Response Time	10ms
	Contrast Ratio	600:1
	Viewing Angle (Up/ Down/ Left/ Right)	80°/80°/70°/70°
	Touch Panel	Taiwan Capacitive Touch
	Luminance	350 cd/m
Power	Input	Universal AC 100-240V
	Output	DC+12V
Environment ¹	Management	VESA DPMS

	Consumption	35MAX
	Storage Temperature	-20℃ - 60℃
	Operating Temperature	0°C - 40°C
	Operating Humidity	10% - 85%
Mechanical	Rotation	180° Vertical
	Mounting	VESA Compliant (100mm X 100mm)
	Optional Glass	Strengthen Glass (For Non-Touch Version)
	Dimension	350W×211D X 344H (mm)
	Weight	NW: 4.5KG GW: 6.5KG
Optional	3 Tracks Magnetic Reader	Support
Peripherals	1-line VFD	Nil
	2-line VFD	Support
10 inch Monitor (with/ without Support touch)		Support
	12 inch Monitor (with/ without touch)	
	15 inch Monitor (with/ without touch)	Support

4. Installation Guide

4.1 Appearance

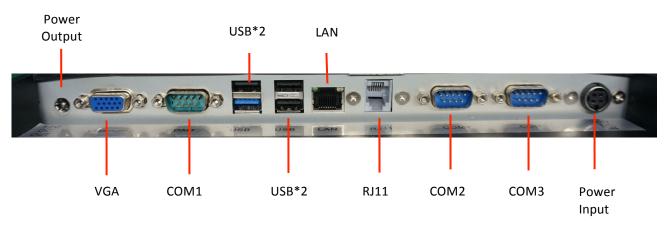


4.2 Power Button



4.3 Rear Panel I/O Connectors

At the rear panel of the EC-VP-1100 / EC-VP--1100i3 is a row of external I/O device connectors. Detail as below:



- RJ11 RJ11 interface (DK port) for connection of cash drawer
- VGA VGA signal output for connection of external VGA monitor
- COM2 & 3 For connection of serial devices
- USB2.0 Connection to USB 2.0devices (compatible with USB 1.1 devices)
- USB3.0 Connection to USB 3.0devices (compatible with USB 2.0 devices)
- LAN RJ-45 Ethernet connection to Giga-bit LAN
- 12V DC IN Connection to 12V DC Power Supply
- 12V DC OUT Connection to the second display

5. Getting Start:

This chapter describe preparation before use the EC-VP-1100 / EC-VP-1100i3. The following topics are described.

5.1 Unpacking

Below are the items should include in the carton box:

- EC-VP-1100 / EC-VP-1100i3 X 1
- Power Supply X 1
- Power cord X 1
- Quick Installation Guide X 1
- Warranty sheet X 1
- Drivers CD X 1

If any of the above item is missing, please contact you dealer.

After unpacking the carton, connect the power cord and Ethernet extension cable properly to the system. Cables should pass through the punch hole to the rear bottom of the stand.

Optional Parts

1. MSR	2. Customer Display	3. Second Display with stand
4. Screws		

5.2 Remove the Rear Cover

Steps to remove the rear cover

- 1. Remove all screws (including the hard disk cover)
- 2. Remove the cover



5.3 Install the Optional Peripheral

5.3.1 Install the MSR

- 1. Remove the left side screw
- 2. Connect the MSR



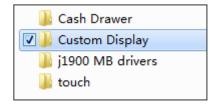
5.3.2 Install the Customer Display (Physically and Driver)

- 1. Fix the customer display with two screws
- 2. Connect the cable



3. Install the driver

3.1 Open the installer directory in the CD, select the J1900 MB drivers



3.2 Double-click the "custom display" to proceed



3.3 Double-click "setup.exe" to start installation



3.4 When installation starts, click [NEXT] to proceed to the next step, until installation finish

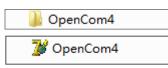
5.3.3 Install the Second Display

- 1. Turn the second display, secure the stand with four screws
- 2. Connect the power to "power output" and VGA cable



5.3.4 Connect the Cash Drawer

- 1. Connect the cash drawer cable
- 2. Test the cash drawer



6. Install the Drivers and Software

6.1 Install the Touch screen driver

1. Touch Screen Driver Installation:

Step 1: Open the installer directory in the CD, select "J1900_Driver" / "i3_i5Driver"

🍑	H-12.	ла шининика
i3_i5Driver	Jan 1997 - 1997	
	J1900_Driver	

Step 2: Select the "Driver" folder

🕌 🍋 Cash driver	
🔋 🕛 Customer display	
Driver	

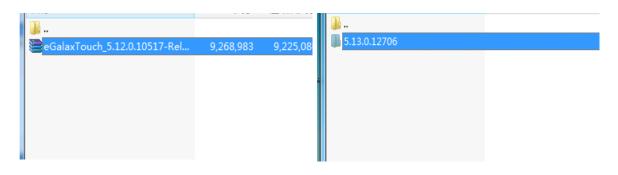
Step 3: Select "Driver_win7" / "Driver_win8_win10"

L	🍑 🔐	
	Driver_win7	
ł	Driver_win8_win10	
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Step 4: Double-click the "Driver_Win7_32_touch" to proceed

🔉 🛺	
Driver_WIN7_32_Audio.rar	181,534,1
Driver_WIN7_32_Chipset.rar	2,786,756
Driver_WIN7_32_Graphic.rar	90,335,316
Driver_WIN7_32_LAN.rar	5,835,131
Driver_WIN7_32_ME.rar	111,096,8
Driver_WIN7_32_Touch.rar	24,371,864
Driver_WIN7_32_USB3.0.rar	5,230,197

Step 5a: EC-VP1100 Double-click the "eGalaxTouch_5.12.0.10517-Release120717" to proceed Step 5b: EC-VP1100i3 Click the "5.13.0.12706" folder



Step 6: Double-click "setup.exe" to start installation

_		
🔁 data2.cab	512	153
🚳 _Setup.dll	164,784	49,282
🗟 data1.hdr	12,783	3,214
Declaration.txt	1,595	845
🚳 ISSetup.dll	552,214	431,525
ayout.bin	1,713	595
PS2setup.iss	1,480	419
🧰 setup.exe	455,600	170,413
🗑 setup.ini	457	363
setup.inx	282,981	162,995
setup.isn	289,864	66,125
setup.iss	1,875	459
📄 setup.log	169	147
DuchKit.xpo	278,344	276,674
🚳 XTouch32EX.dll	237,568	62,219
 □ ◄ ■ <li< td=""></li<>		

Step 7: When installation starts, click [NEXT] to proceed to the next step

eGalaxTouch	Welcome to the InstallShield Wizard for eGalaxTouch The InstallShield Wizard will install eGalaxTouch on your
	computer. To continue, click Nest.
	< Back Next > Cencel

Step 8: Select "INSTALL PS/2", click [NEXT] to continue installation

eGalaxTouch	×
Setup Туре	
Select the setup type that best suits your needs.	
Extra PS/2 interface driver for eGalaxTouch controller. Please check the check box for PS/2 touch controller.	
Install PS/2 interface driver	
InstallS hield	
Instalished Back Next> Cancel	

Step 9: Select "install RS232 interface driver" and click [Next] to continue

eGalaxTouch	×
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	
InstallShield	_
< Back Next > Cancel	

Step 10: Select option "NONE", click [Next] to continue installation

eGalaxTouch	—
Setup Type	
Select the setup type that best suits your needs.	
Do 4 point calibration after system reboot	
Every system boot up	
Next system boot up	
None	
InstallShield	
Kalishield Kext> Canc	el

Step 11: When installing USB touch, connect the USB controller and USB cable

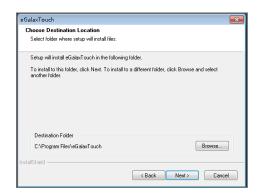
ſ	eGalaxTouch		- X
	Setup Type Select the	e setup type that best suits your needs.	
L	eGalaxTo	uch - InstallShield Wizard	×
	()	If you are trying to install the USB touch device, please make sure that your touch monitor or touch controller's USB cable is plugged into the computer now. Please close the "Found New Hardware Wizard" dialog when it appears.	
		确定	
I	nstallShield —		
		< Back Next > Can	el

Step 12: If it has an additional touch monitors connected, choose "support multi-monitor system"

eGalaxTouch	×
Setup Type	
Select the setup type that best suits your needs.	
If you want to use Multi-Monitor, please check the box.	
V Support Multi-Monitor System	
InstallShield	
<back next=""> Cance</back>	el

Step 13: Select the destination location to install the touch driver. The default path is "C:\Program

Files\eGalaxtouch". Click [Next] to continue installation



Step 14: Select the Program Folder to install the utility. The default is "eGalaxtouch". Click [Next] to continue installation

eGalaxTouch Select Program Folder		— ×
Please select a program folder.		
name, or select one from the existing fo	igram Folder listed below. You may type Iders list. Click Next to continue.	a new folder
Program Folder: eGalaxtouch		
Existing Folders: Accessories		
Administrative Tools Games HP		
Maintenance Nero Startup		
Tablet PC TP-LINK		-
InstallShield		
	< Back Next >	Cancel

Step 15: Check the option to create a desktop shortcut icon

eGalaxTouch	x
Setup Type Select the setup type that best suits your needs.	
Select the features you want to install, and deselect the features you do not want to install. Click Next to continue.	
☑ Create a eGalaxTouch Utility shortcut on desktop	
InstallShield	
K Back Next > Cance	el

7. Identify the Problem

- 7.1 Follow the procedure below to troubleshoot the problems:
 - Identify all the symptoms in detail
 - Verity symptoms by re-create them
 - Follow corrective procedures in order
 - If you replace an FRU and the symptom still exists, install the original part and do another test to identify the problem

7.2 Electricity Failure

Power failure can be caused by AC adapter, or undetermined problems (such as loose connections)

7.3 Touch Screen Doesn't Function

- 1. Re-install the touch screen driver
- 2. Check the touch screen cabling
- 3. Check the cabling form mainboard-to-LCD
- 4. Check the BIOS setting

7.4 Power Failure

Power shut down unexpectedly cannot turn on the system

- 1. Check the power cable
- 2. Check the mainboard power connector
- 3. Check CPU settings
- 4. Check DRAM settings
- 5. Check the power button cable
- 6. Replace the power supply

7.5 Network / LAN Failure

- 1. Confirm the hub / switch is working properly
- 2. Check the network cable
- 3. Confirm the RJ45 LED on the terminal is on
- 4. Reinstall the Ethernet driver
- 5. Replace the main board

7.6 MSR Failure

1. Check the MSR reader cables

7.7 USB Failure

- 1. Check the ports which detected in Windows Device Manager
- 2. Reseat the USB device
- 3. Reinstall the USB device driver
- 4. Replace the USB device

7.8 Cash Drawer Doesn't Function

- 1. Check the cash drawer cable
- 2. Replace the cash drawer cable

7.9 Re-Boot Continuously

- 1. Restore the BIOS defaults
- 2. Remove all I/O device drivers and reinstall them
- 3. Check the IDE cable
- 4. Check the memory

7.10 Printer Doesn't Work

- 1. Make sure the printer is power on
- 2. Replace paper roll
- 3. Check the printer cables

8. Replace Field Replaceable Units(FRUs)

8.1 Safety and Precautions

Computer components and electronic circuit boards can be damaged by discharges of static electricity, continuously working on those computers that are still connected to a power supply can be extremely dangerous. Follow these guidelines to avoid damage to the computer or injury to yourself.

- Always disconnect the unit from the power outlet
- Leave all components inside the static-proof packing that they ship with until they are ready for installation
- After replacing optional devices, make sure all screws, springs, or other small parts are placed tightly, no left over inside the case. Metal parts or flakes can cause electrical shorts

Caution

- Only qualified personnel should perform repairs on the terminal. Damage due to unauthorized servicing is not covered by the warranty
- If the LCD breaks, pay attention for the fluid spill to the skin or eyes. Immediately wash with water and seek medicals attention
- Under no circumstances to touch the inverter card while power is connected to the terminal.
 Unplug the power cord before attempting to replace any FRU
- To prevent static damage to components, wear a grounded wrist strap. Alternatively, discharge any static electricity by touching the bare metal chassis of the unit case, or the bare metal body of any other grounded appliance
- Hold electronic circuit boards by the edges only. Do not touch the components on the board unless it is necessary to do so. Do not flex processor by its pins; hold it by the edges

8.2 Before You Begin

Make sure you have a stable and clean working environment. Dust and dirt can get in to Mercury components damaging the internal components.

Most of the electrical and mechanical connections can be disconnected by using your fingers. It is recommended that you do not use needle-nosed pliers to disconnect as these can damage the soft metal or plastic parts of the connectors.

- To prevent scratching the case, make sure the table top surface is clean and flat
- If you need to put the display face down, be sure to use a foam mat underneath for protection purpose

8.3 Replace Parts

Take note of the following when replacing parts:

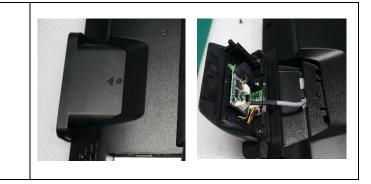
- If you replace an FRU and the symptom still exists, install the original part and do another test to identify the problem
- When replacing a falling part, other parts that have to be removed before the falling part are listed at the top of the page
- To replace a part, reverse the removal procedure

8.3.1 Rear Cover.



8.3.2 MSR

- 1. Remove the screws
- 2. Disconnect the cable
- 3. Remove the MSR



8.3.3 Customer display

- 1. Disconnect the cables
- 2. Remove the customer display with two screws



8.3.4 SATA interface

- 1. Remove the hard disk interface screws
- 2. Disconnect the cables



8.3.5 Mainboard

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8.3.6 Memory card

1.	After take out the mainboard, pull	
	from both side of the memory slot	

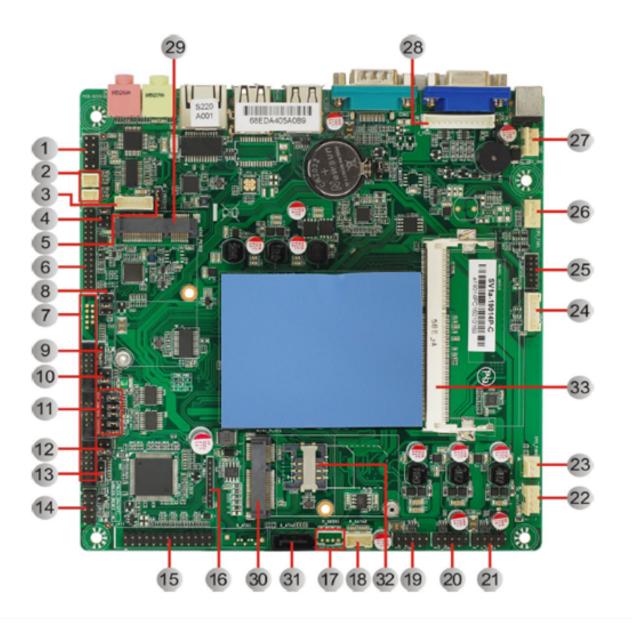
8.3.7 The LCD panel

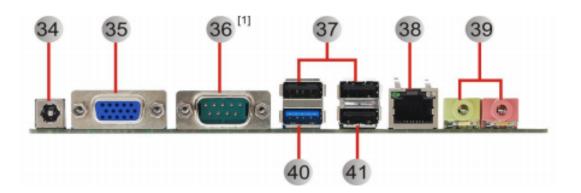
- 1. Tear up the back lid
- 2. Disconnect the cables
- 3. Remove 4 screws, then take out the LCD panel



9. Mainboard

9.1 EC-VP1100 Mainboard



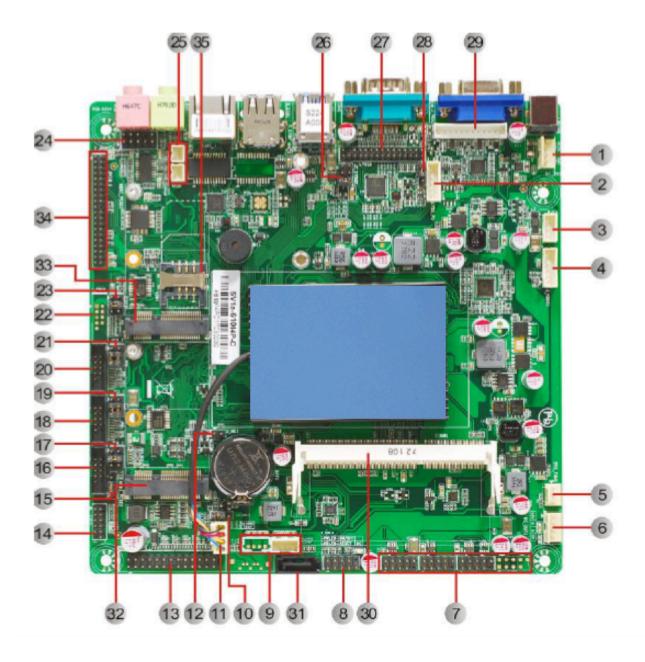


Jumpers / Headers and Connectors						
1	Front Audio Pin Header	P7	22	DC12V/5V Power Output Connector	P12	
2	Amplifier Pin Headers	P7	23	System Fan Connector	P ₁₂	
3	LVDS Backlight Control Pin Header	P7	24	Keyboard and Mouse Pin Header	P13	
4	LVDS VDD Select Jumper	P7	25	GPIO Pin Header	P ₁₃	
5	LVDS Backlight PWM/CCFL Select Jumper	P7	26	CPU Fan Connector	P13	
6	LVDS Signal Pin Header	P ₈	27	DC12V Power Input Connector	P ₁₃	
7	COM1-4 Pin Headers	P8	28	VGA Pin Header	P ₁₃	
8	COM1 Select Jumper	P9	29	Mini PCI-E2 Slot		
9	COM2 Select Jumper1	P۹	30	Mini PCI-E1 Slot		
10	COM2 Select Jumper2	P10	31	SATA 2.0 Connector		
11	COM3 Select Jumpers	P10	32	SIM Card Slot		
12	COM4 Select Jumper1	P10	33	SO-DIMM Slot		
13	COM4 Select Jumper2	P10	34	DC 12V Power Input Connector		
14	Front Panel Pin Header	P11	35	VGA Connector		
15	Parallel Pin Header	P11	36	COM1 Connector [1]		
16	Debug Pin Header		37	USB2.0 Connectors		
17	SATA Power Pin Header1		38	LAN Connector		
18	SATA Power Pin Header2	P11	39	Audio Connectors		
19	Front USB1 Pin Header	P11	40	USB3.0 Connector		
20	Front USB2 Pin Header	P12	41	USB2.0 Connector		
21	Front USB3 Pin Header	P ₁₂				

Notes:

[1]: HDMI and COM1 (DB9) Connectors on rear I/O share the same position and are mutually exclusive.

9.2 EC-VP1100i3 Mainboard





1	DC12V Power Input Connector	P ₇	22	COM1 Pin Header	P ₁₂
2	LVDS Backlight Control Pin Header	P ₇	23	COM1 Pin1 Signal Select Jumper	P ₁₂
3	Cash Drawer Pin Header	P ₇	24	Front Audio Pin Header	P ₁₂
4	PS/2 Pin Header	P ₇	25	Amplifier Pin Headers	P ₁₃
5	System Fan Connector	P ₇	26	LVDS VDD Select Jumper	P ₁₃
6	DC12V/5V Power Output Connector	Ps	27	LVDS Signal Pin Header	P ₁₃
7	Front USB Pin Headers	Pa	28	LVDS Backlight PWM/CCFL Select Jumper	P ₁₄
8	Front Panel Pin Header	P9	29	VGA Pin Header	P ₁₄
9	SATA Power Pin Headers	P9	30	SO-DIMM Slot	•
10	CMOS Clear Jumper	P9	31	SATA 2.0 Connector	
11	CPU Fan Connector	P۹	32	Mini PCI-E2 Slot	
12	ME Flash Pin Header		33	Mini PCI-E1 Slot	
13	Parallel Pin Header	P9	34	Seavo IO Connector	
14	GPIO Pin Header	P ₁₀	35	SIM Card Slot	
15	COM4 Pin9 Signal Select Jumper	P10	36	DC 12V Power Input Connector	
16	COM4 Pin Header	P ₁₀	37	VGA Connector	
17	COM4 Pin1 Signal Select Jumper	P ₁₁	38	COM1 Connector [1]	
18	COM3 Pin Header	P ₁₁	39	USB3.0 Connectors	
19	COM3 Pin1/9 Signal Select Jumper	P ₁₁	40	USB2.0 Connectors ^[2]	
20	COM2 Pin Header	P ₁₁	41	LAN Connector	
21	COM2 Pin1/9 Signal Select Jumper	P ₁₂	42	Audio Connectors	

Manufacturer: EC LINE

Thank you very much for using EC Line product

For service, please contact service@ecline.com.hk

www.eclinepos.com