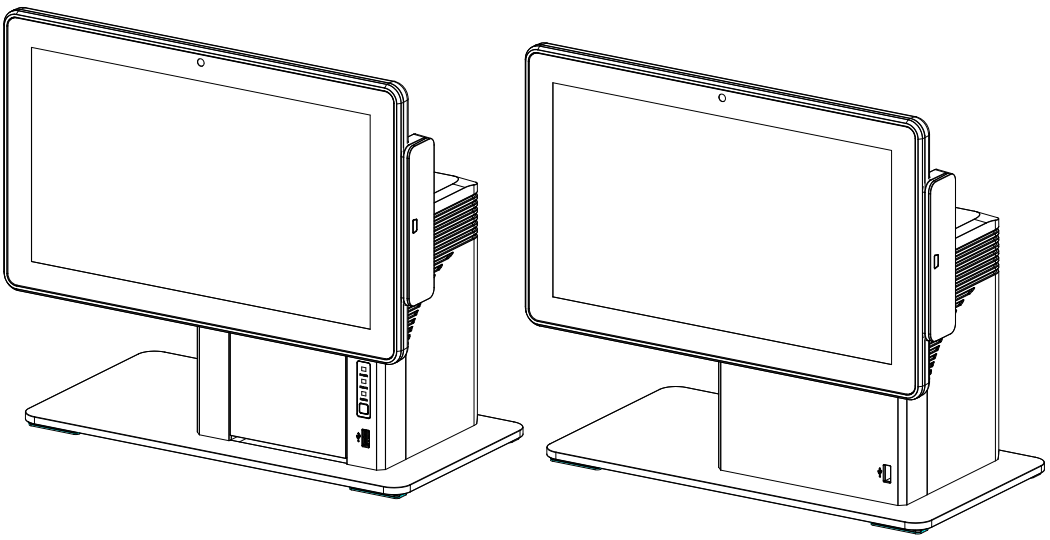
USER MANUAL

VERSION 1.0 December, 2016

POS534/POS544
Hardware System



Manual Version 1.0
Part Number: 3LMPP5340110

The information contained in this document is subject to change without notice.
We make no warranty of any kind with regard to this material, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. We shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

TRADEMARK

Safety

IMPORTANT SAFETY INSTRUCTIONS

1. To disconnect the machine from the electrical power supply, turn off the power switch and remove the power cord plug from the wall socket. The wall socket must be easily accessible and in close proximity to the machine.
2. Read these instructions carefully. Save these instructions for future reference.
3. Follow all warnings and instructions marked on the product.
4. Do not use this product near water.
5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register or in a built-in installation unless proper ventilation is provided.
7. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
9. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

CE MARK

This device complies with the requirements of the EEC directive 2014/30/EU with regard to “Electromagnetic compatibility” and 2014/35/EU “Low Voltage Directive”.

FCC

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.

CAUTION ON LITHIUM BATTERIES

There is a danger of explosion if the battery is replaced incorrectly. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer’s instructions.

Battery Caution

Risk of explosion if battery is replaced by an incorrectly type. Dispose of used battery according to the local disposal instructions.

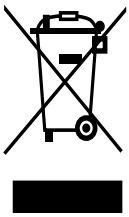
Safety Caution

Note: To comply with IEC60950-1 Clause 2.5 (limited power sources, L.P.S) related legislation, peripherals shall be 4.7.3.2 “Materials for fire enclosure” compliant.

4.7.3.2 Materials for fire enclosures
For MOVABLE EQUIPMENT having a total mass not exceeding 18kg.the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of V-1 CLASS MATERIAL or shall pass the test of Clause A.2.
For MOVABLE EQUIPMENT having a total mass exceeding 18kg and for all STATIONARY EQUIPMENT, the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of 5VB CLASS MATERIAL or shall pass the test of Clause A.1

LEGISLATION AND WEEE SYMBOL

2012/19/EU Waste Electrical and Electronic Equipment Directive on the treatment, collection, recycling and disposal of electric and electronic devices and their components.



The crossed dust bin symbol on the device means that it should not be disposed of with other household wastes at the end of its working life. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure.
To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract.

This product should not be mixed with other commercial wastes for disposal.

USER INFORMATION REQUIREMETNS

Products shall be shipped with informational materials to notify customers of the following:

1. A description of power management settings that have been enabled by default.
2. A description of the timing settings for various power management features and instructions for properly waking the product from Sleep Mode.
3. Products shall be shipped with one or more of the following:
   - A list of default power management settings.
   - A note stating that default power management settings have been selected for compliance with ENERGY STAR (within 15 min of user inactivity for the display, within 30 min for the computer, if applicable per Table2), and are recommended by the ENERGY STAR program for optimal energy saving.
4. Information about ENERGY STAR and the benefits of power management, to be located at or near the beginning of the hard copy or electronic user manual, or in a package or box insert.

The power management feature allows the computer to initiate a low-power of “Sleep” mode after a period of user inactivity. When used with an external ENERTY STAR qualified monitor, this feature also supports similar power management features of the monitor. To take advantage of these potential energy savings, the power management feature has been preset to behave in the follow ing ways when the system is operating on AC power.

- Turn off the display after 15 minutes.
- Initiate Sleep after 30 minutes.

Revision History

Changes to the original user manual are listed below:

Revision	Description	Date
1.0	• Initial release	December, 2016

Table of Contents

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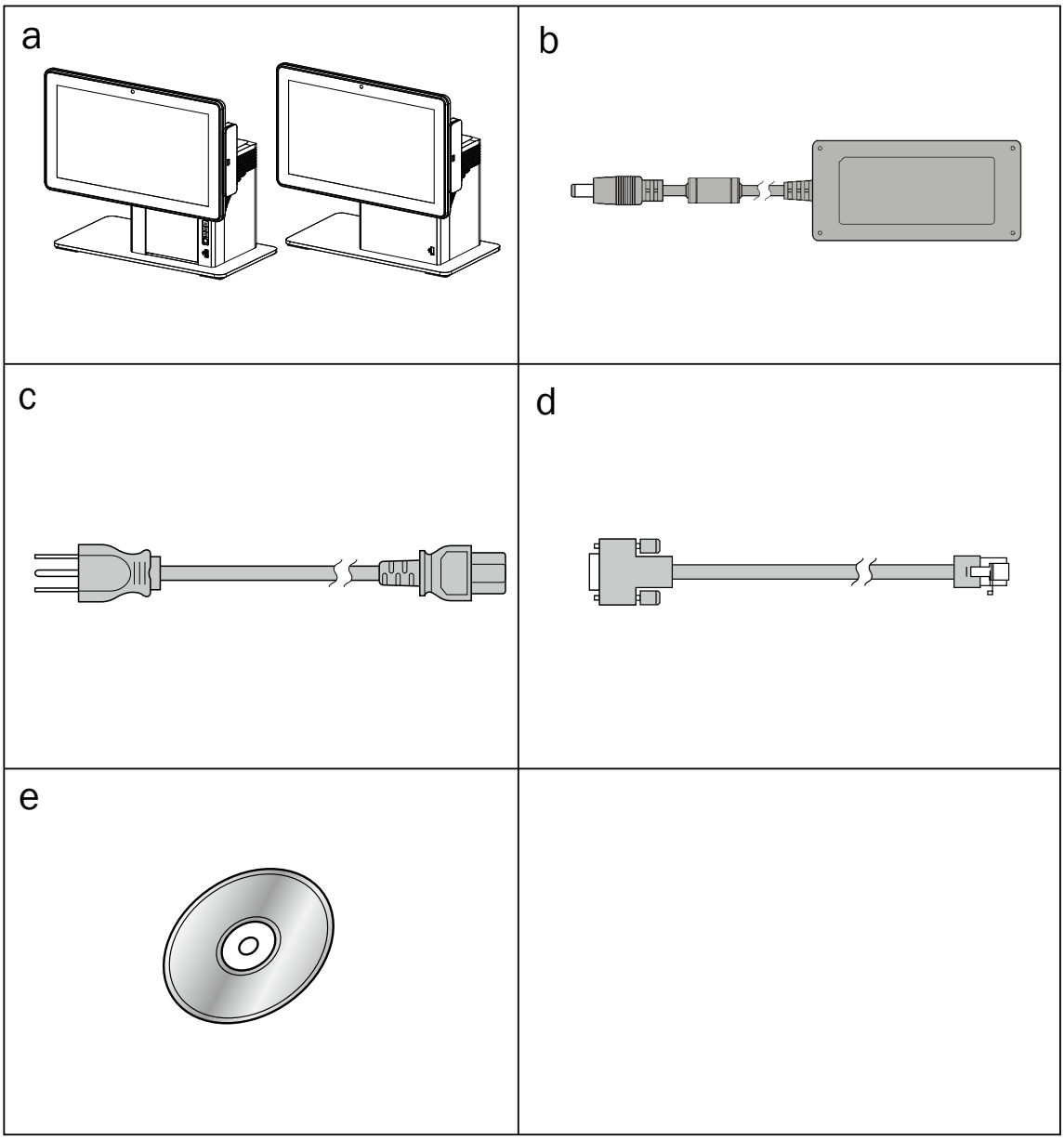
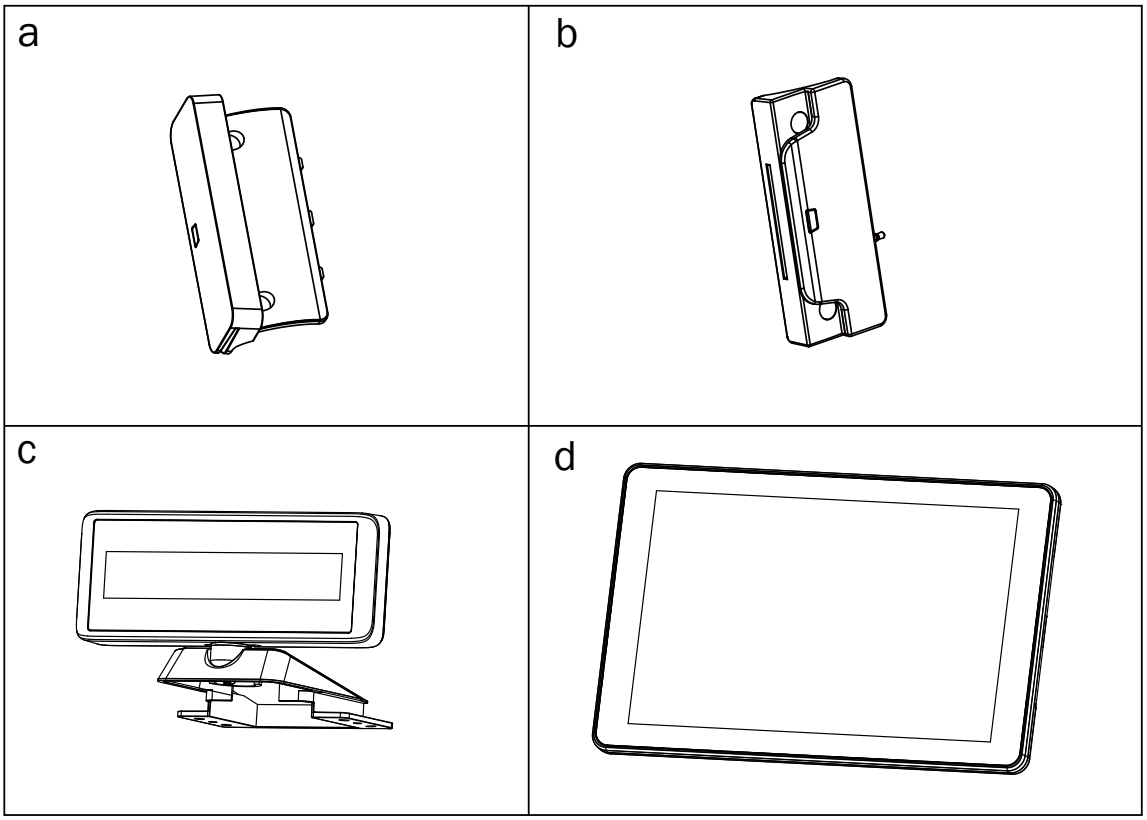
1. Packing List

1-1. Standard Accessories



a. POS534 or POS544 System
b. Power adapter
c. Power cord
d. RJ45-DB9 cable (x1)
e. Driver CD

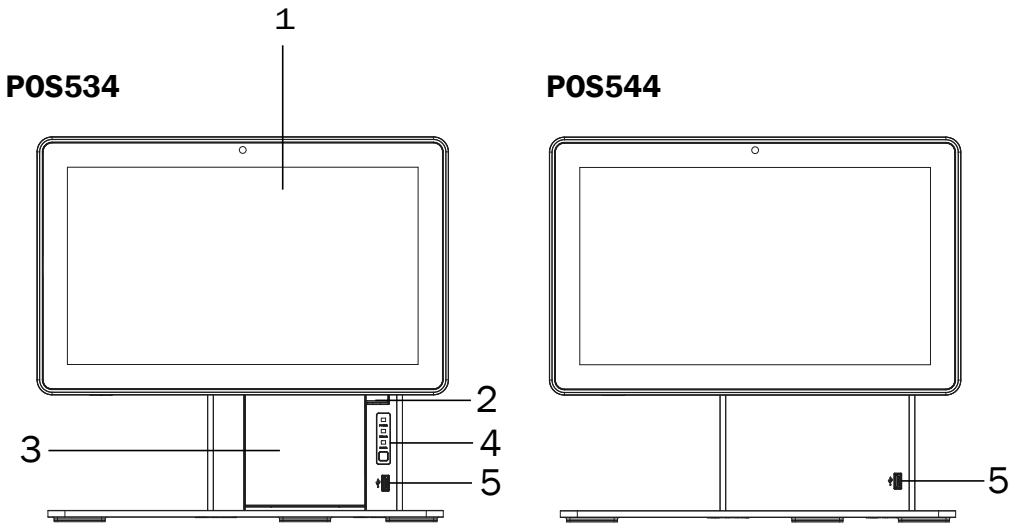
1-2. Optional Accessories



a. MSR module
b. EMV certified module
c. LCM module
d. 2nd display module

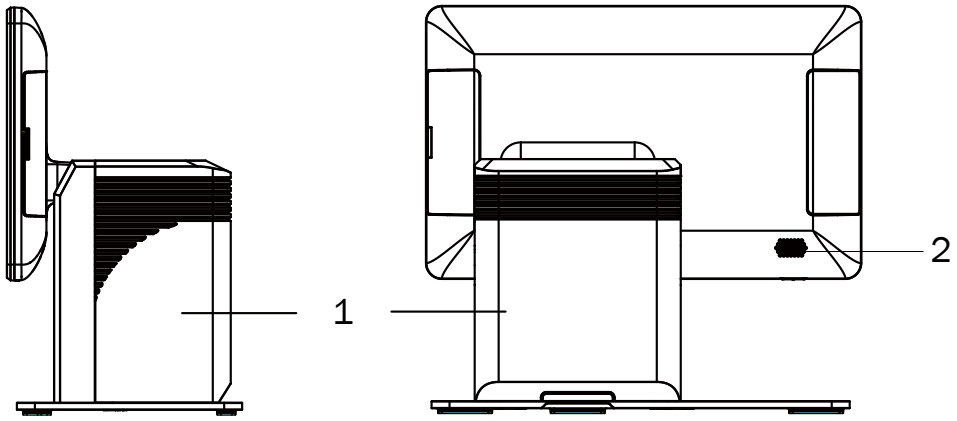
2. System View

2-2. Front View



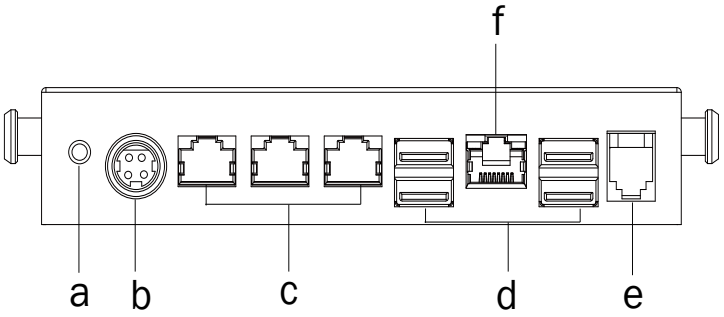
Item No.	Description
1	Touch screen
2	Lock button of thermal printer
3	Thermal printer
4	Printer indicator(power, error, and paper) & Paper feed button
5	USB

2-1. Side & Rear View



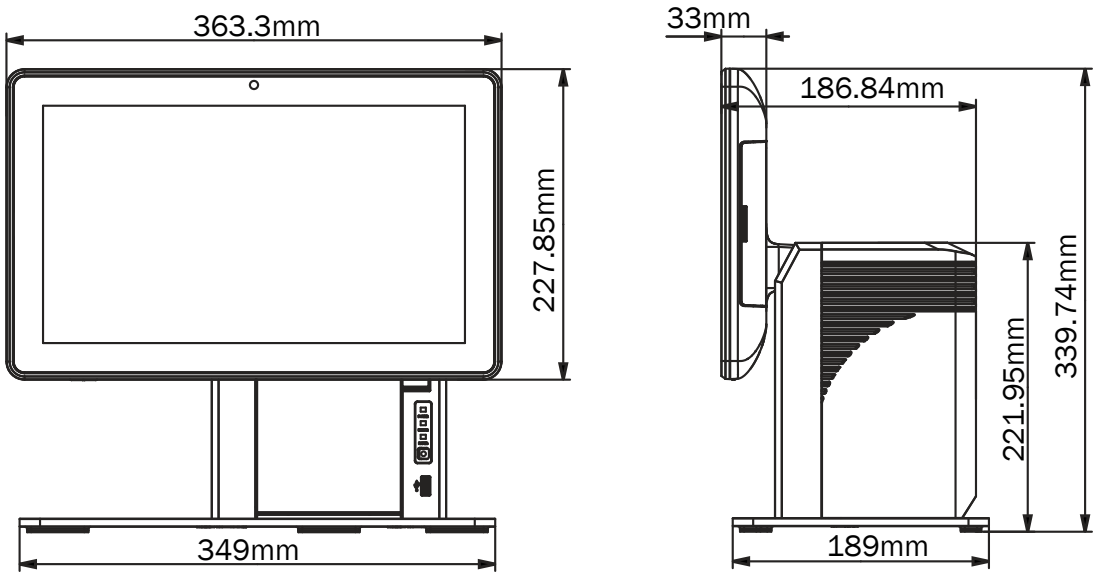
Item No.	Description
1	Back cover (IO board and thermal printer inside)
2	Speaker (optional)

2-3. IO Port View



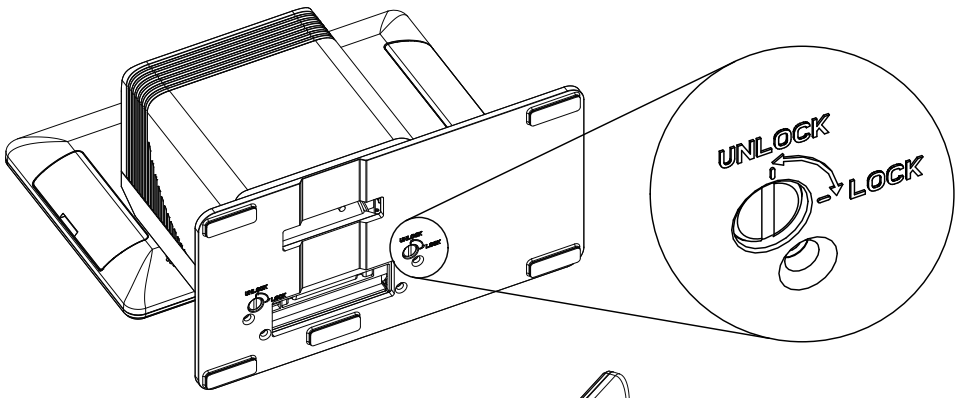
Item No.	Description
a	Power button
b	DC 19V in
c	COM 1~3 (from left to right)
d	USB 3.0 x 4
e	LAN
f	Cash drawer

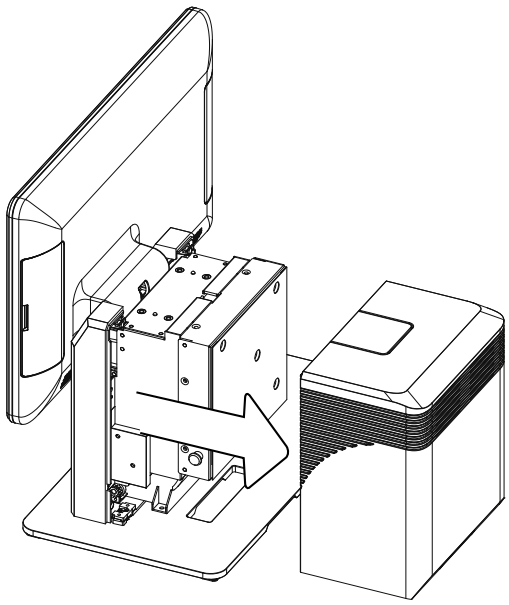
2-4. Dimensions



3. System Assembly & Disassembly

3-1. Open the System Box

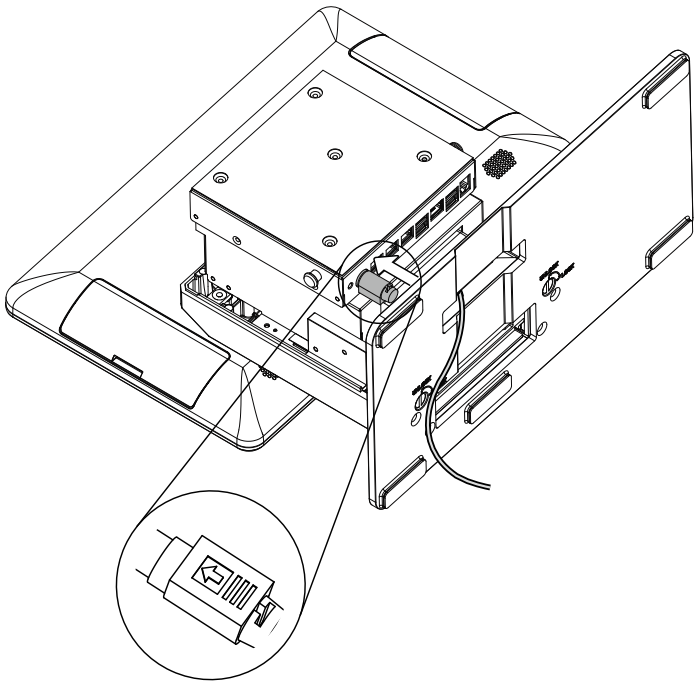




1. The back cover of the system is secured by two bolt screws which are located at the bottom of the stand plate.
2. To open the back cover, firstly place the system face down. While there, you will be able to see the bottom of the system.
3. Insert a small coin into the larger groove of the screw and turn counterclockwise to unscrew.
4. Use both hands to pull the cover of the system box upward to release the cover from the system box.

3-2. Install the Power Adapter

The system is equipped with a 90W power adapter. Please plug it into the system as shown below.



1. Follow the steps decribed in Chapter 3-1 to open the system box cover first.
2. Place the system face down to access the bottom of the stand.
3. Thread the power adapter cable through the hole of the stand as shown in the picture.
4. Find the power connector on the right of the I/O panel (refer to chapter 2-3 b.) and connect the power adapter to the DC-IN connector.
5. Finally arrange and fix the cable by using the hook as shown in the picture.

Warning:

- Please follow the direction to plug the adapter and make sure it is fully connected into the I/O port.
- When attaching or detaching the cable, do so by holding the connector, not the cable itself.
- **DO NOT** pull or rotate the cable which may cause damage to the fitting.

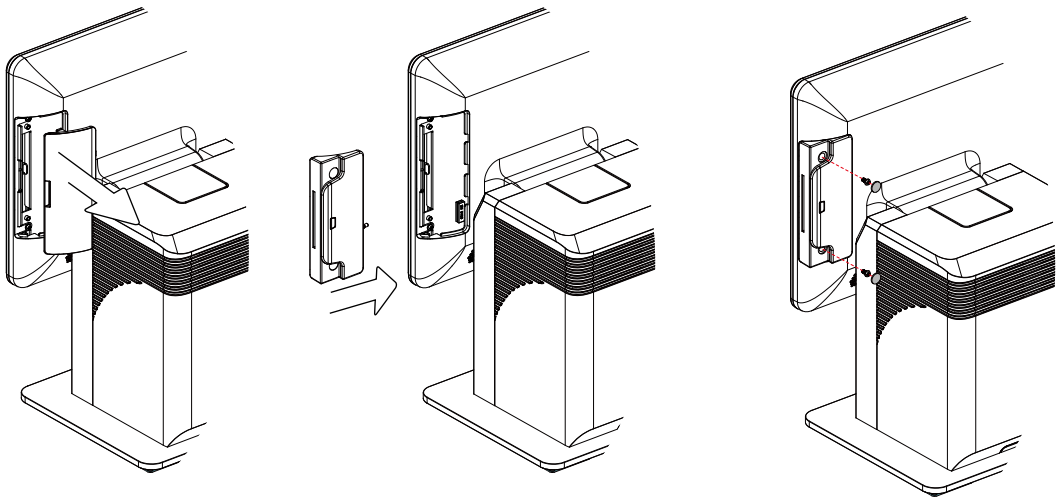
Turn off the system:

1. Hold down the power button for 5 seconds to bring up the "Slide to shutdown" screen.
2. Hold down the power button for 10 seconds to force the system to turn off.

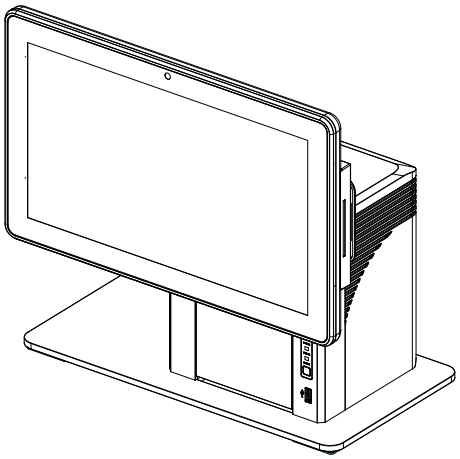
* When the power adapter is connected, the power LED on printer indicator will blink slowly about 2 seconds. After the power LED is off, then continue to press the power button to turn on the system.

4. Peripherals Installation

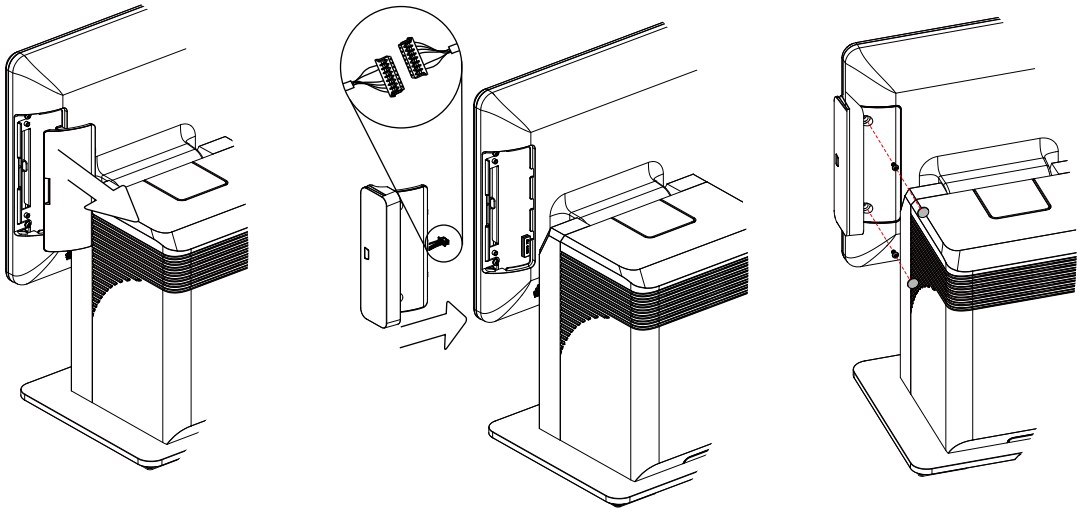
4-1. Install the EMV Certified Module



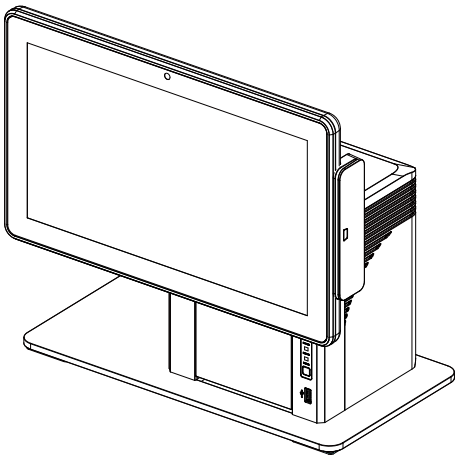
1. Remove the dummy cover first.
2. Slide and insert the EMV certifid module into the slot.
3. Fasten the screws (x2) on the back to secure the module and then cover the rubber covers.



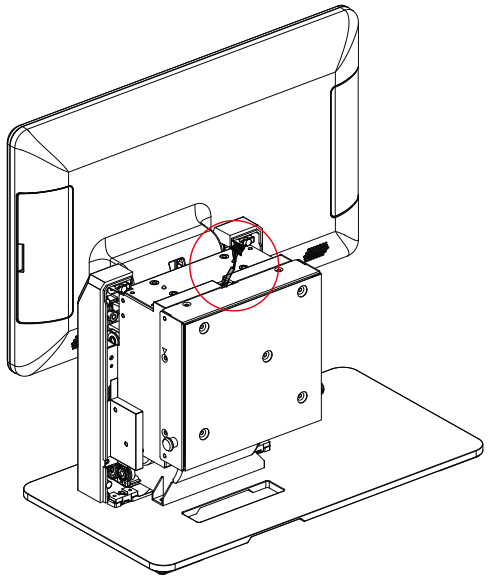
4-2. Install the MSR Module

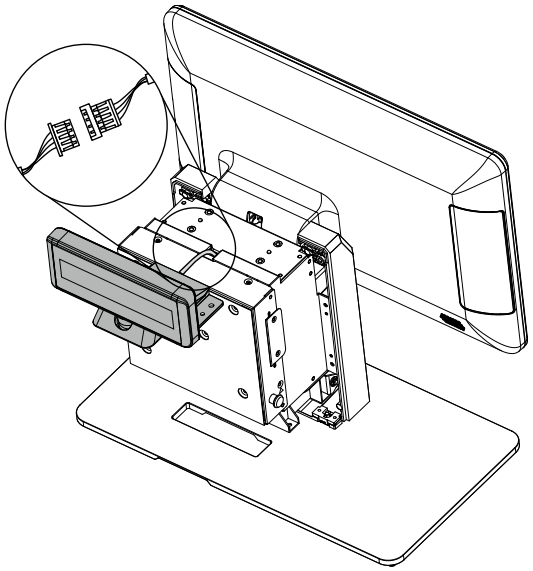


1. Remove the dummy cover first.
2. Connect the MSR cable to the connector on the system side.
3. Insert the MSR module in place and fasten the screws (x2) on the back to secure the module. Do not screw too tightly to avoid damages to the plastic parts.
4. Finally cover the rubber covers.

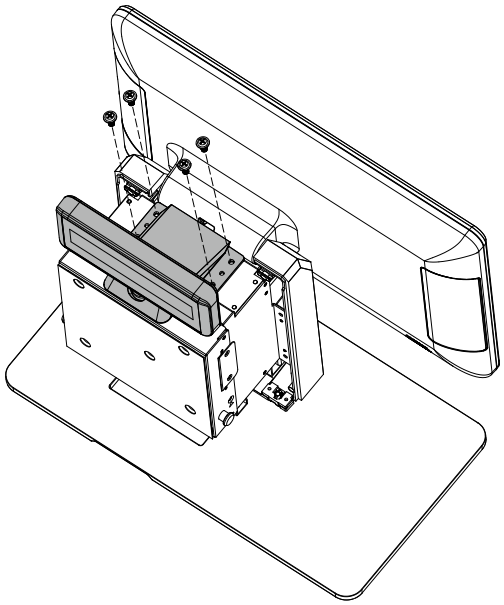


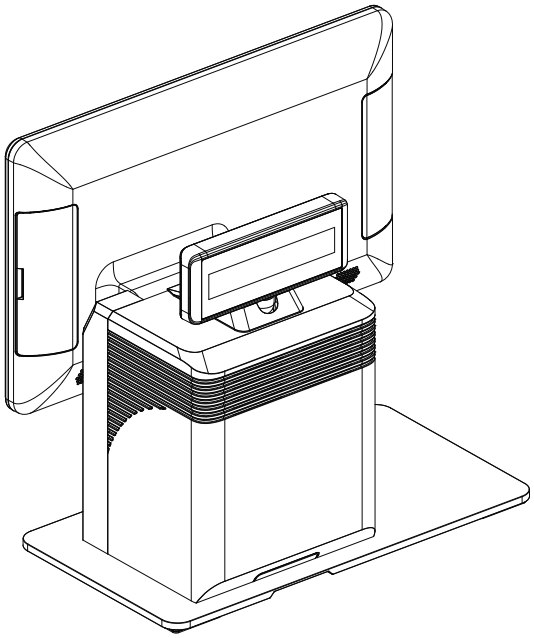
4-3. Install the LCM Module





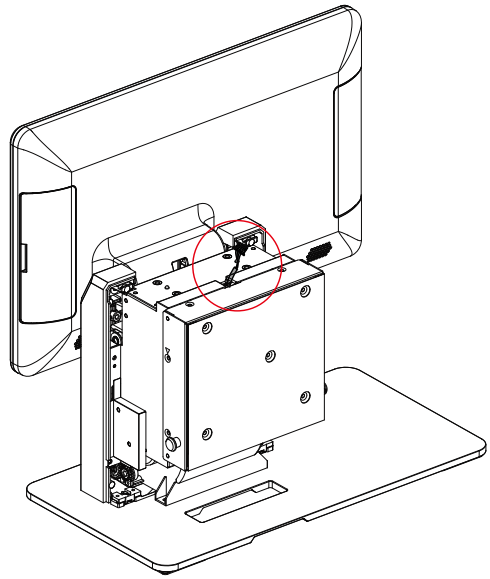
1. Follow the steps decribed in Chapter 3-1 to open the back cover of the system first.
2. After opening the back cover, you will find the LCM connector located at the bracket. Connect this connector to the other end of the connector of the LCM module.

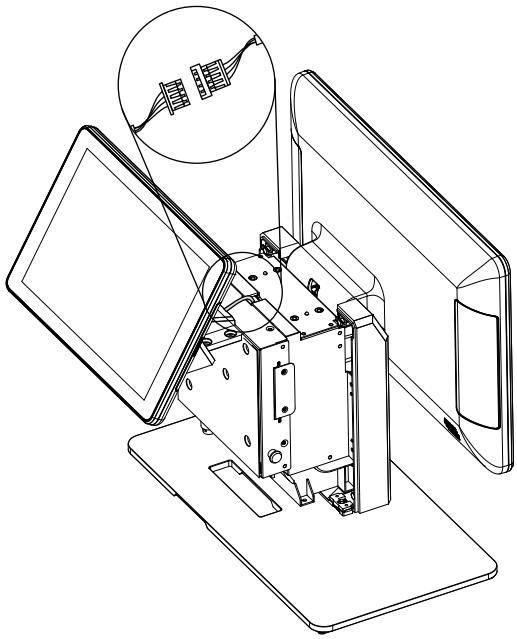




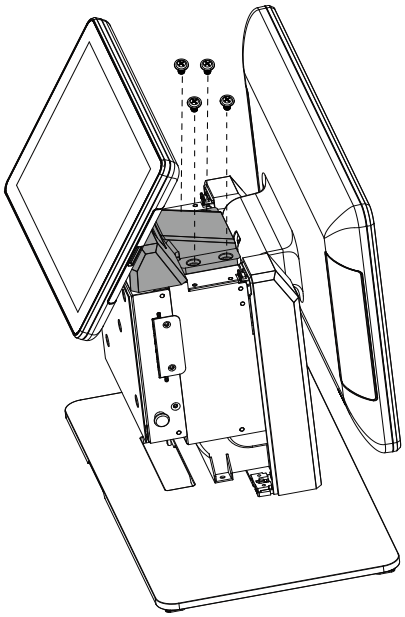
3. Finally, fasten the screws(x4) to secure the LCM module to the system.

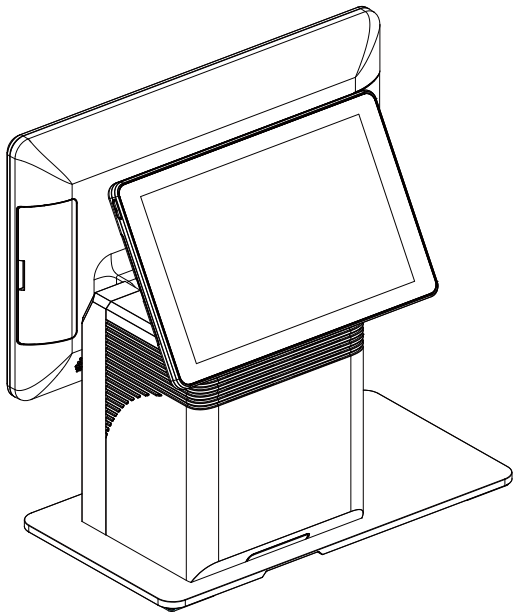
4-4. Install the 2nd Display Module





1. Follow the steps decribed in Chapter 3-1 to open the back cover of the system first.
2. After opening the back cover, you will find the 2nd diaplay connector (13 pin female connector) located at the bracket. Connect this connector to the other end of the connector of the 2nd display module.



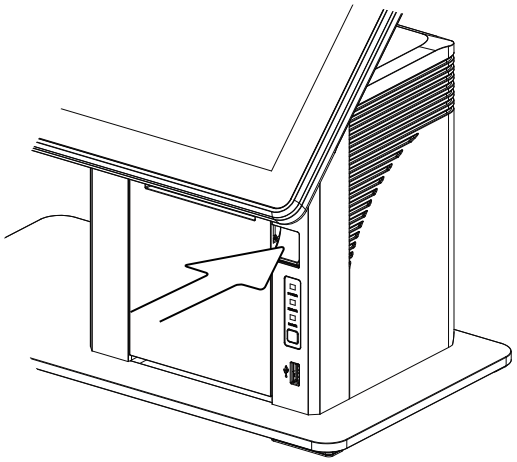


3. Finally, fasten the screws(x4) to secure the 2nd display module to the system.

4-5. Load the Thermal Printer Paper

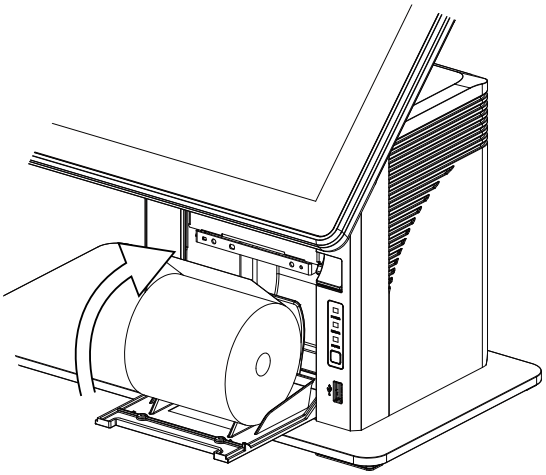
Note: Do not switch off the system. The printer must be powered on when replacing the printer paper.

1. Press the button at the right side to open the thermal printer module.

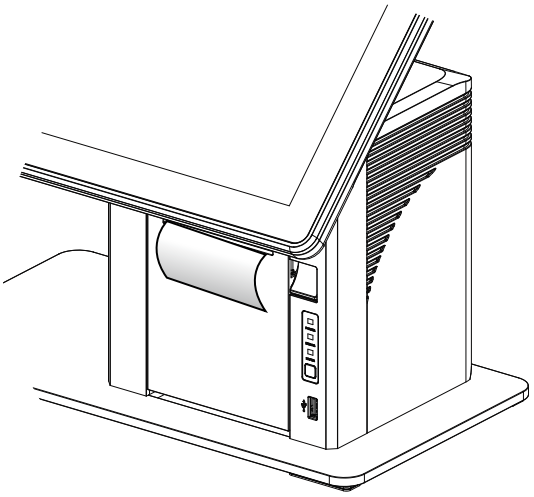


* Cut away the first five (5) cm of the paper, to obtain a straight edge and remove the label at the end of the roll.

2. Place the paper roll inside the printer slot, pull out a 2 or 3 cm length and then close the cover.



3. The paper will feed automatically through the printer (the system must be powered on).



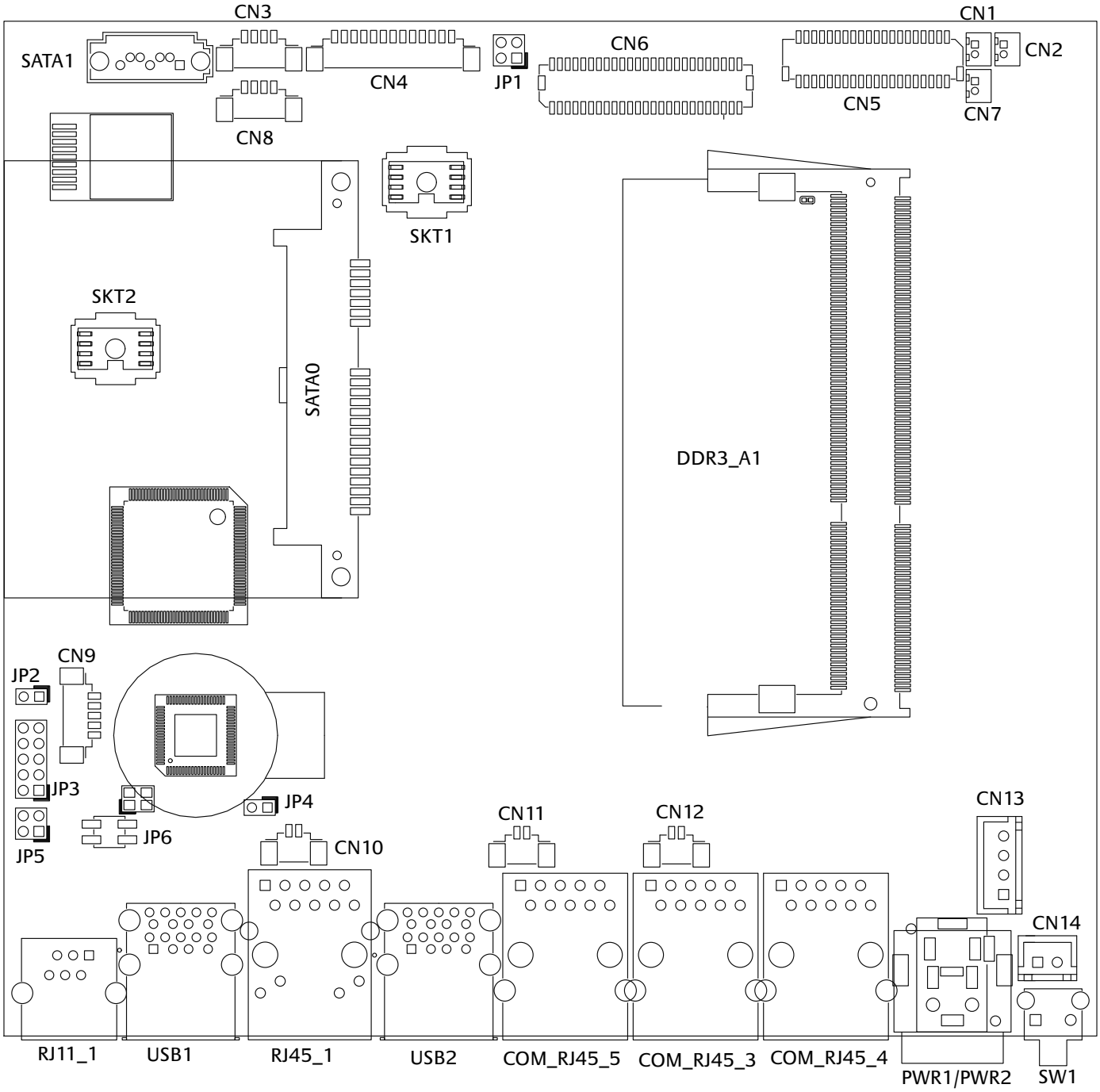
5. Specifications

Model	POS534	POS544
CPU support	Intel Bay Trail CPU Celeron J1900	
System memory	2GB / 4GB / 8GB DDR3 SO-DIMM	
Storage	16GB / 32GB / 64GB pSSD	
LCD touch panel		
LCD size	14" TFT LCD (eDP)	
Maximal resolution	1366 x 768	
Brightness	200 nits	
Touch screen type	True Flat P.Cap Touch	
Tilt angle	0°~90° (w/o LCM and 2nd display)	
Expansion I/O ports		
USB port	4 x USB 3.0 Type-A / 1x USB2.0 USB, front side	
COM port	3 x RJ-48 (COM1 0V/5/12V; COM2 0V/5V/12V; COM3 0V/5V/12V; default BIOS setting 0V)	
Cash drawer	1 x RJ-11 (12V/19V selection by jumper setting, default 19V)	
LAN port	1 x RJ-45 (10/100/1000 Base T)	
DC jack	4 pin w/ lock	
Power		
Power adapter	120W/19V	
Control / Indicator		
Power button	1	
Printer feed button	1	NA
Printer LED Indicator	3 (Paper, Error, Power)	NA
Peripherals		
Built in printer	3" 170 mm/sec , Auto cutter , Paper drop change, Out of paper sensor, Paper roll dia. 80mm	NA
MSR	3 Tracks MSR (USB)	
EMV certified module	MSR/ smart card reader combo module (USB)	
Audio		
Built in speaker	2W x 2 (Option)	
Environment		
Sealing	IP54 (Display side)	
EMC & Safety	FCC, Class A, CE, LVD	
ESD	4kV contact discharge, 8kV air discharge	
Operating temperature	0°C ~ 35°C (32°F ~ 95°F)	
Storage temperature	-20°C ~ 60°C (-4°F ~ 140°F)	
Humidity	20% ~ 85% RH non condensing	
Dimension (W x D x H)	LCD 90° tilt angle: 363 x 189 x 340 mm (14.3" x 7.5" x 13.4")	
Weight (N.W./G.W.)	5kg (11.0 lbs) / 6kg (13.2 lbs)	4.1kg (9.0 lbs) / 5.1kg (11.2 lbs)
OS support	Windows 7 (32/64bit), Windows 8.1 (32/64bit), Windows 10 (64bit), Linux	

* This specification is subject to change without prior notice.

6. Configuration

6-1. D33 Motherboard Layout



6-2. Connectors & Functions

Connector	Function
CN1	Speaker_L connectr
CN2	Speaker_R connectr
CN3/CN8	US2.0(internal)
CN4	VGA output(internal)
CN5	24V converter board connector
CN6	50 pin I/O connector(LVDS/Audio/USB/eDP)
CN7	Mic connector
CN9	EC debug connector
CN10	Battery connector
CN11	Power LED
CN12	HDD LED
CN13	SATA power
CN14	Push-pull button connector
COM_RJ45_3	COM3
COM_RJ45_4	COM2
COM_RJ45_5	COM1
RJ45_1	LAN connector
RJ11_1	Cash drawer connector
PWR1/2	DC Jack
SATA0/SATA1	SATA gen2
SW1	Power button
USB1/2	USB3.0
DDR3_A1	DDR3 SO-DIMM
JP1	LVDS eDP Setting
JP2	Hardware reset
JP3	LCD ID setting
JP4	Clear CMOS
JP5	Cash drawer contrl setting
JP6	Cash drawer power setting

6-3. Jumper Settings

LVDS eDP Setting

Function	JP1
eDP	[1] 3 [2] 4
▲LVDS	1 [3] 2 [4]

Cash Drawer Contrl Setting

Function	JP5
Print Board	[1] 3 [2] 4
▲M/B	1 [3] 2 [4]

Cash Drawer Power Setting

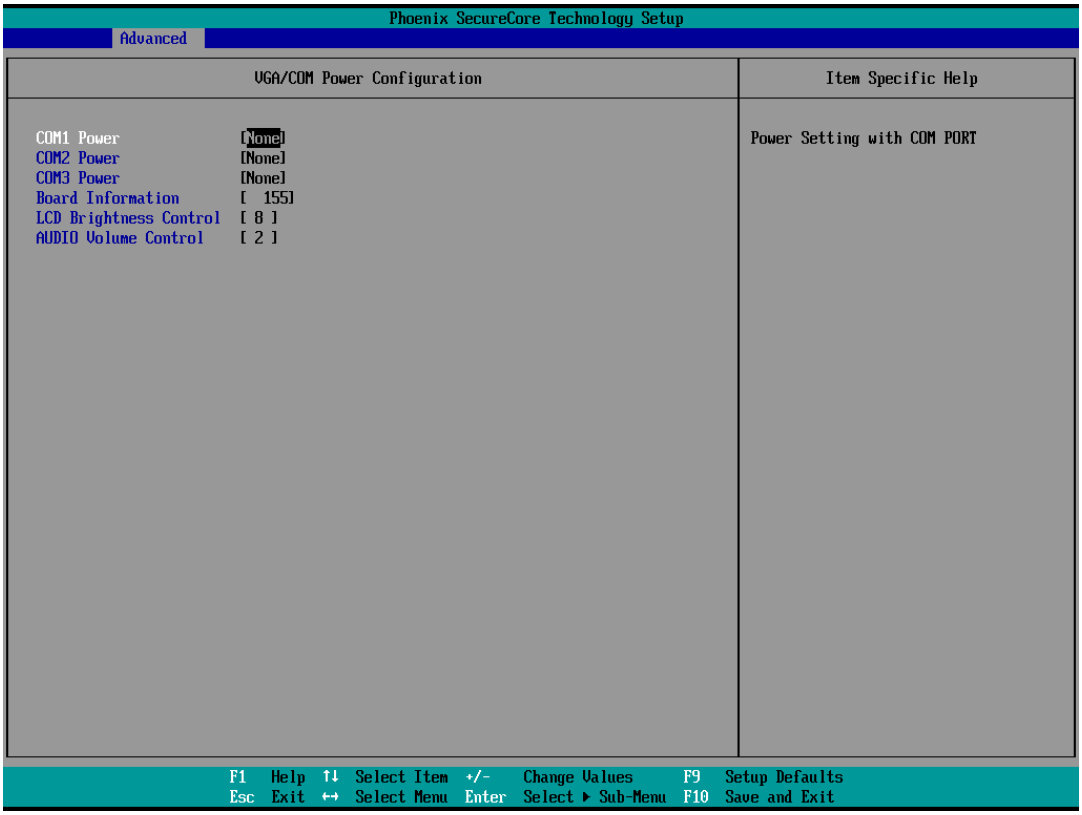
Function	JP6
▲+19V	[1] 3 [2] 4
+12V	1 [3] 2 [4]

▲ = Manufacturer Default Setting

[1]
[2] Jumper open [1]
[2] Jumper short

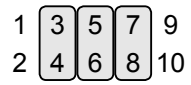
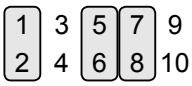
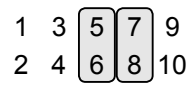
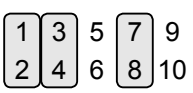
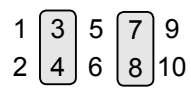
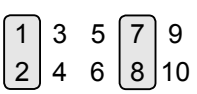
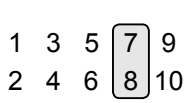
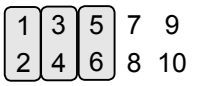
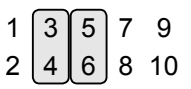
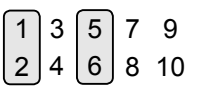
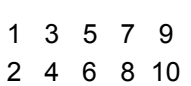
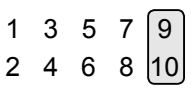
COM1/COM2/COM3 Power Setting

COM1, COM2 and COM3 can be set to provide power to your serial device. The voltage can be set to +5V or +12V in the BIOS.



1. Power on the system, and press the <DEL> key when the system is booting up to enter the BIOS Setup utility.
2. Select the Advanced tab.
3. Select **VGA/COM Power Configuration** Ports and press <Enter> to go to display the available options.
4. To enable the power, select COM1 ,COM2 or COM3 Power setting and press <Enter>. Select Power and press <Enter>. Save the change by pressing F10.

LCD ID Setting

Panel#	Resolution	LVDS		Output Interface	
		Bits	Channel		
1	800 x 600	18	Single	LVDS Panel	
2	800 x 600	24	Single	LVDS Panel	
3	1024 x 768	18	Single	LVDS Panel	
4	1024 x 768	24	Single	LVDS Panel	
5	1366 x 768	18	Single	LVDS Panel	
6	1366 x 768	24	Single	LVDS Panel	
7	1024 x 600	18	Single	LVDS Panel	
8	1280 x 1024	24	Dual	LVDS Panel	
9	1440 x 900	24	Dual	LVDS Panel	
10	1280 x 800	18	Dual	LVDS Panel	
15	1920x 1080	24	Dual	LVDS Panel	
				CRT	

▲ = Manufacturer Default Setting

 Jumper open  Jumper short

Appendix: Drivers Installation

The shipping package includes a Driver CD in which you can find every individual driver and utility that enables you to install the drivers on the system.

Please insert the Driver CD into the drive and double click on the “index.htm” to select the models. You can refer to the drivers installation guide for each driver in the “Driver/Manual List”.