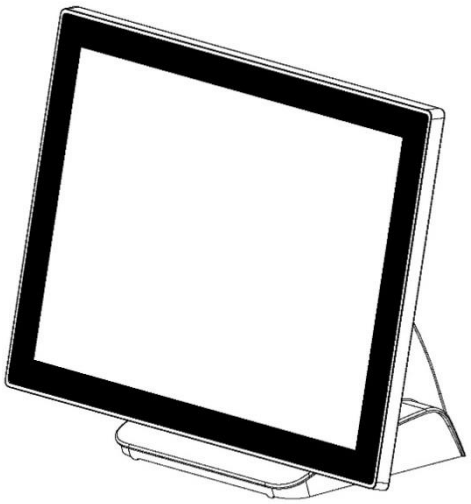
TP-1615

Fanless Full-Flat POS Terminal

User Manual

TP Series



Ver. 1.0, April, 2022

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General Information

Revision History

Date	Version	Update Summary	Remark	Approved By
2022/04/28	V1.0	Initial Release	Wira Wang	Robert Kuo

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About This Manual

The purpose of this user's manual is to provide general information on TYSSO's POS Terminal and to show the users how to configure the hardware-related configurations. The information in this manual is subject to change without notice due to rapid improvement on IT technology. Users can get the most up to date information from our web sites:
http://www.fametech.com.tw

Disclaimer

This manual has been examined for accuracy. While precaution has been taken in the preparation of this manual, neither the manufacturer takes no liability for errors or omissions nor assume any responsibility for damage(s) incurred directly or indirectly from errors, omissions, or discrepancies of this manual.

IN NO EVENT WILL THE VENDOR BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THIS PRODUCT OR DOCUMENTATION, EVEN IF THE POSSIBILITY OF SUCH DAMAGES HAS BEEN ADVISED. IN PARTICULAR, THE VENDOR SHALL NOT HAVE LIABILITY FOR ANY HARDWARE, SOFTWARE, OR DATA STORED OR USED WITH THE PRODUCT, INCLUDING THE COSTS OF REPAIRING, REPLACING, OR RECOVERING SUCH HARDWARE, SOFTWARE OR DATA



Warning

The terminal 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 interface in a residential installation. This equipment can generate and radiate radio frequency energy and, if not installed and used according to the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interface will not occur under particular installation. If this equipment does cause harmful interference to radio or television reception, which is found by turning the equipment off and on, the user is encouraged to try to correct the interface by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment or device.
- Connect the equipment to an outlet other than the receiver's.
- Consult a dealer or an experienced radio/TV technician for assistance.

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Caution

The system is provided with a battery-powered Real-Time Clock circuit. There is a danger of exposing and personal injury if the battery is incorrectly replaced or mistreated. Do not attempt to disassemble the battery, immerse it in the water or expose it to fire.

Warranty Limits

If the product and the parts are disassembled by any person other than the authorized technicians, the warranty will be terminated. The users should consult his/her dealer for any technical problems. Warranty does not cover any damage caused by improper use.

Trade Marks and Service Marks

TYSSO is a registered trademark of FAMETECH INC.

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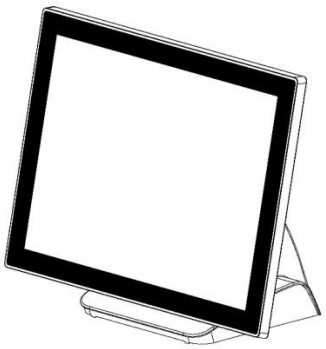
Important Safety Information

- Read following instructions carefully.
- Use only parts, especially power adapter, recommended by the manufacturer; unapproved parts may be hazardous.
- Before plugging the power cord into the AC inlet of the power supply unit, make sure that the voltage applied to the power outlet is within the specified range (100V~240V).
  Improper power source voltage range will cause damage to the power supply unit.
- Power off the system and remove the power adapter while cleaning the system.
- Before powering on the system, make sure all the peripherals are firmly installed.
- Do not use the system near water, such as a bathtub, a washbowl, a kitchen sink, a laundry tub, and a swimming pool. Do not expose the machine under direct sunlight, and keep it away from any heat source.
- Do not place the system on an unstable cart, stand or table. If the machine falls, it may injure a person or cause serious damage to the appliance.
- Do not allow anything to rest on the power cord. Do not locate the system where people may walk on the cord.
- The system is equipped with a three-wire grounded plug with a third (grounding) pin. This is a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install a correct outlet, or use an adapter to ground the appliance safely. Do not leave out the safety purpose of the grounded plug.
- Do not allow anything to rest on the power cord. Do not locate the system where people may walk on the cord.
- Do not make the power outlet and extension cords overload. Overload can result in fire or electric shock.
- Do not push any object into the computer cabinet. Dangerous voltage points may be touched and the parts may be shorted out resulting in fire or electric shock.
- Do not attempt to service the system on your own. Opening or removing cover can expose you to dangerous voltage or other hazards.
- Power off the system before installing or removing non-PNP (plug and play) devices.
- If any of the following situations occurs, unplug the systems from the power outlet immediately and consult with a qualified service person:
  1. The power cord or plug is damaged or frayed.
  2. Liquid is spilled into the system.
  3. The system is dropped or the cabinet is damaged.
- When the system is not in use, cover the system and store it with care.

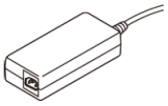
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Product Overview

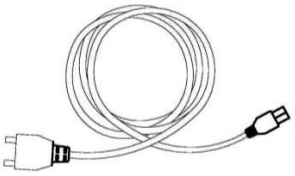
Packing



POS Unit



Power Adapter



AC Power Cord

Contents

- POS Unit x 1
- Power Adapter (pre-installed to the base) x 1
- AC Power Cord x 1
- RJ45 to RS-232-DB9 Male Cable x 3

Optional Accessories*

- Magnetic Stripe Card Reader (MSR)
- Modular Customer Display
- i-Button Module
- 2nd LCD Display

*For more information relating to the other optional peripherals, please contact the local representatives or technical support personnel of the providers.

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Specifications

Model Name	TP-1615
Processor	Intel® Elkhart Lake Celeron® J6412 (1.5M Cache, up to 2.60 GHz)
System Memory	2 x 260 pin DDR4 SO-DIMM, up to 32GB
Storage	1 x M.2 SATA and PCIe SSD
LCD Panel	15-inch TFT LCD with LED Backlight
	1024 (W) RGB x 768 (H)
Touch Panel	True-Flat Projected Capacitive Multi Touch
Speaker	1 x 2W High Quality Speaker
I/O Expansion	
USB	1 x USB-A 3.2, and 1 x USB-C 3.2 (Bottom) 2 x USB-A 2.0 (Bottom) 2 x USB-A 2.0 (Panel Side)
LAN	1 x RJ45 10/100/1000Mbps Giga Ethernet
COM	3 x COM (RJ45), w/ RI/5V/12V (Bottom) 1 x COM (USB) (Panel Side)
HDMI	1 x HDMI Port
Audio	1 x Line-out and 1 x MIC-in
Cash Drawer	1 x RJ11 port supports 2 cash drawer with 12V or 24V by jumper
DC Power Out	1 x +12V Power Out
DC Power In	1 x Standard DIN 4PIN type
Power Management	
Power Adapter	12V@5A, 60W Adapter
Mechanical & Environmental	
Dust and Water	IP65 on Front Bezel
Tilt Adjustment	15° ~ 85° (w/ Standard Base) 0° ~ 90° (w/ Folding Base)
Dimension	355 (W) x 303 (H) x 205 (D)mm (w/ Standard Base) 355 (W) x 312 (H) x 200 (D)mm (w/ Folding Base)
Weight	4.6 kg (w/ Standard Base) 6.6 kg (w/ Folding Base)
Certification	CE/ FCC/ LVD
Operation System	Windows 10 IoT and Linux
TPM	TPM 2.0 (Optional)
Operation Condition	0°C ~ +40°C / 20 ~ 80% without condensation
Storage Condition	-20°C ~ +55°C / 20 ~ 85% without condensation

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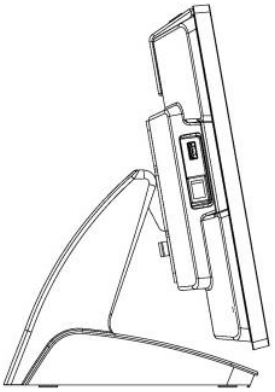
Optional Accessories

Optional Accessories	
2nd Display	8" (800x 600), 9.7" (1024X768) , 10.1" (1280x800) and 15" (1024x768) LCD Display Optional PCAP Touchscreen
Customer Display	VFD and LCD Customer Display
MSR	Bi-directional, Comply with ISO 7811 and Three Track support
Combo Card Reader	MSR - Comply with ISO 7811/JIS II and Three Track RFID - Comply Mifare, ISO14443AB-4 and Felica
i-Button	Dallas i-button Reader
Wi-Fi	Wi-Fi IEEE 802.11 a/b/g/n/ac
LTE	4G LTE Mini-PCIe with External Antenna Rod
VESA Bracket	VESA-Compatible, 75 x 75 (mm)

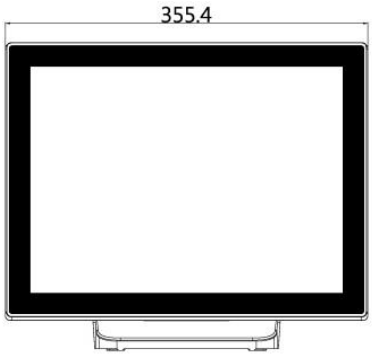
*For further information relating to the other optional peripherals, please contact the local representatives or technical support personnel of the providers.

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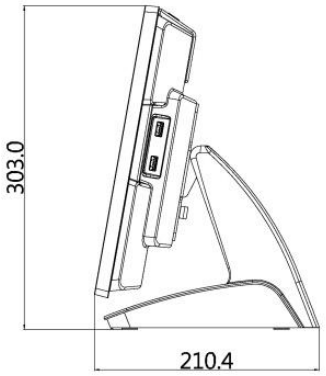
Dimension



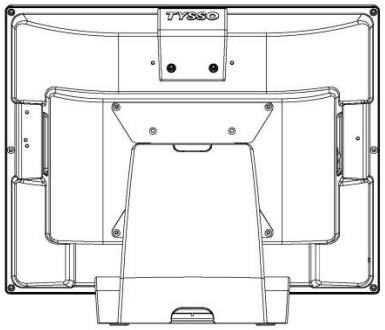
Left View



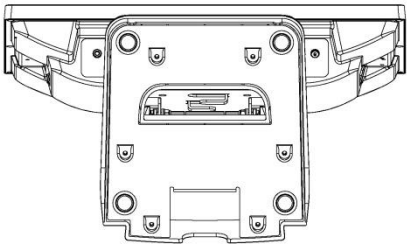
Front View



Right View



Rear View



Bottom View

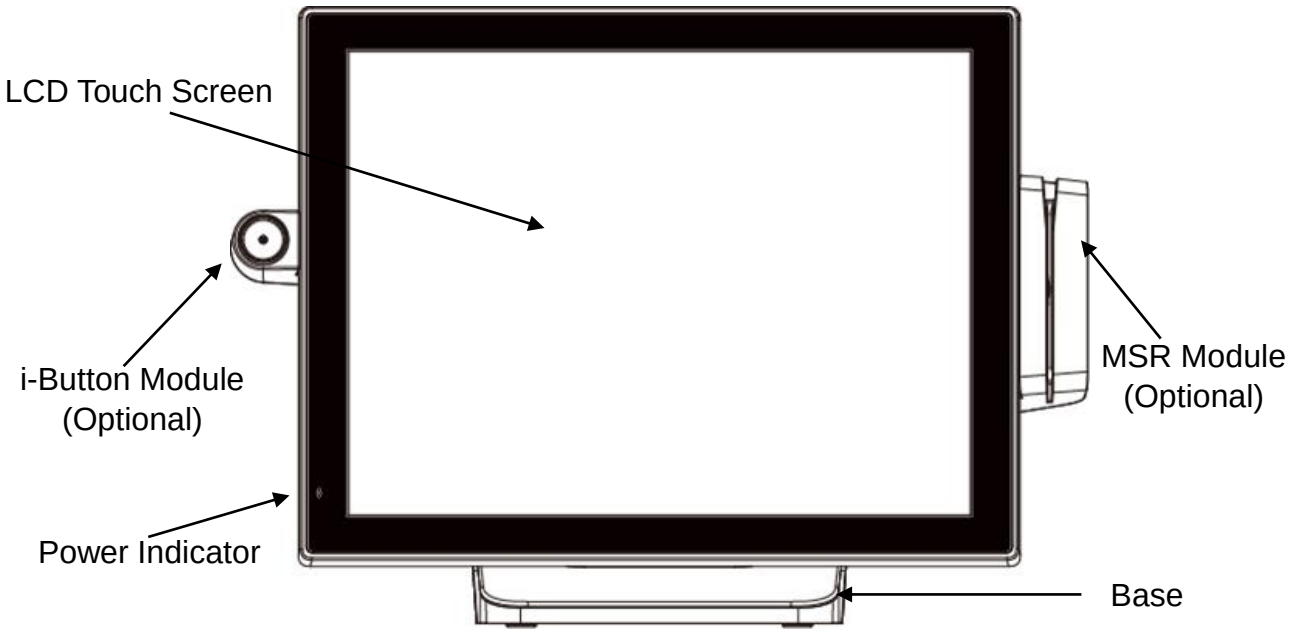
Note:

- The Magnetic Stripe Card Reader (MSR) and i-Button Module are optional peripherals and may not be included in the package. Please consult the local representatives for further information.

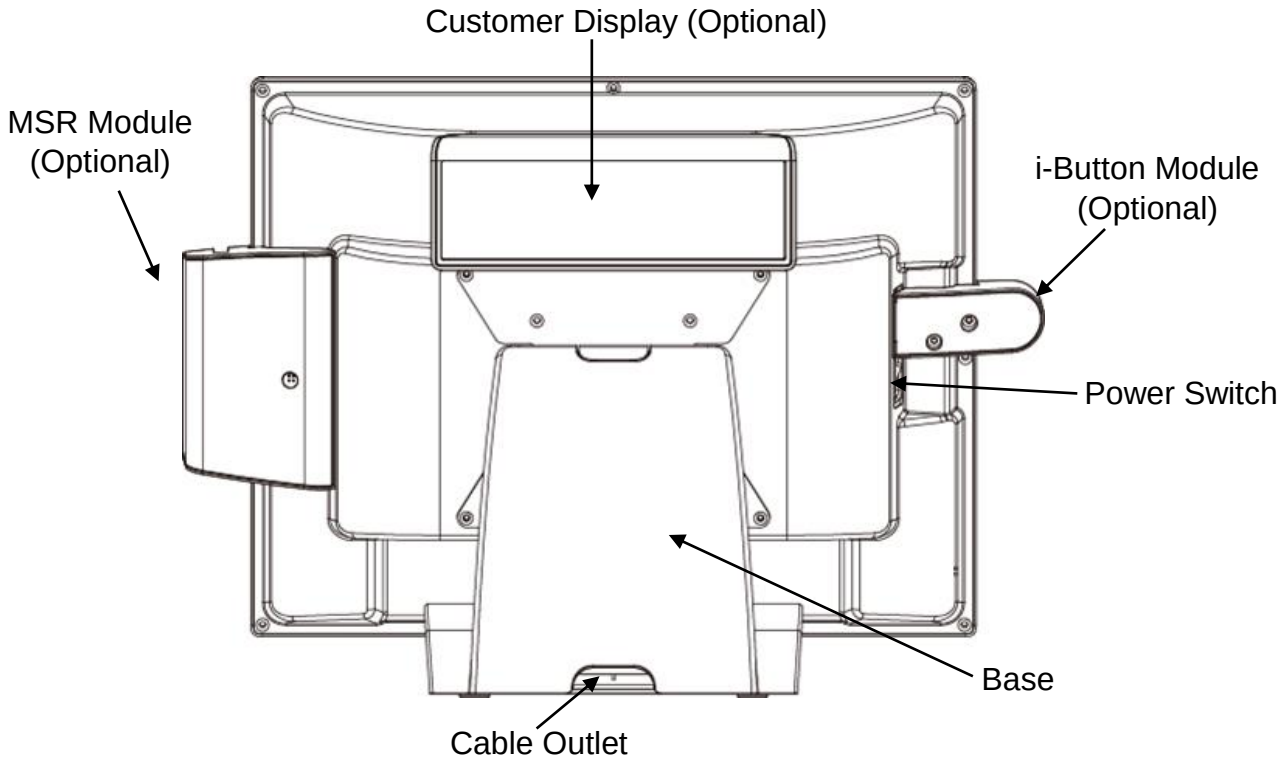
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Part Description

➢ Front View

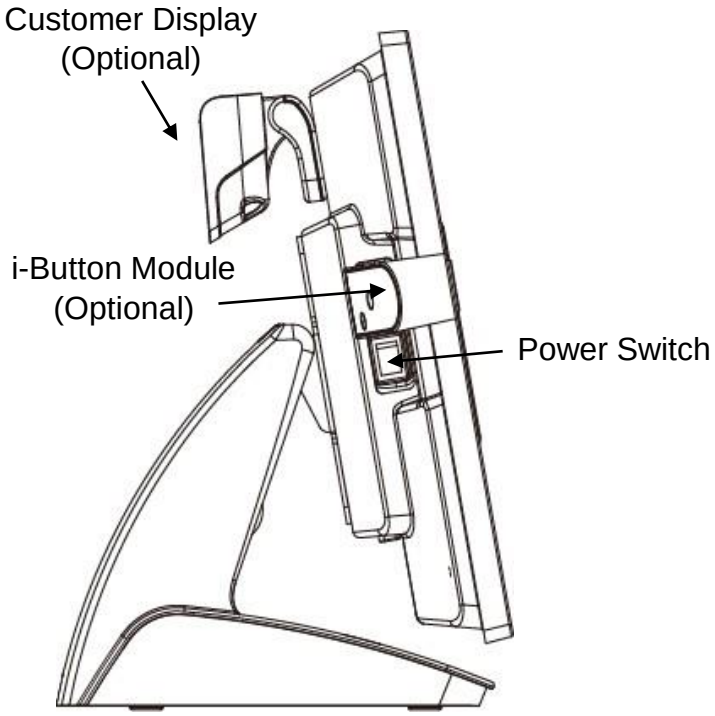


➢ Rear View

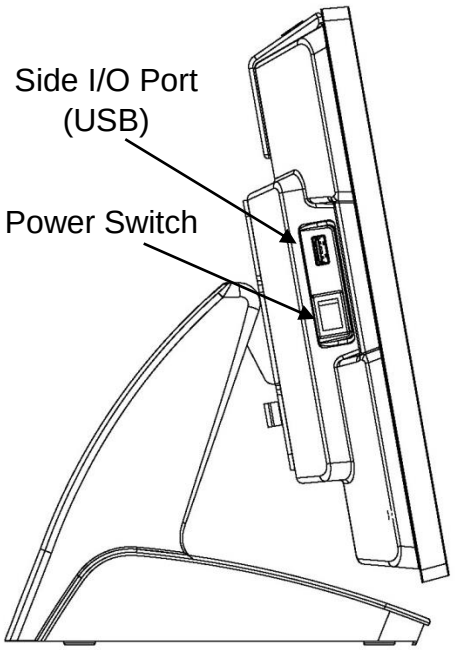


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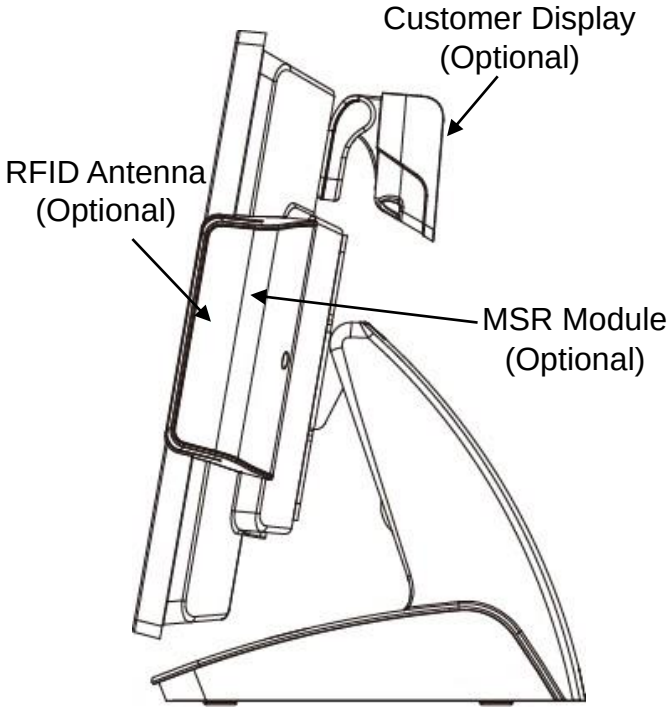
➢ Side View



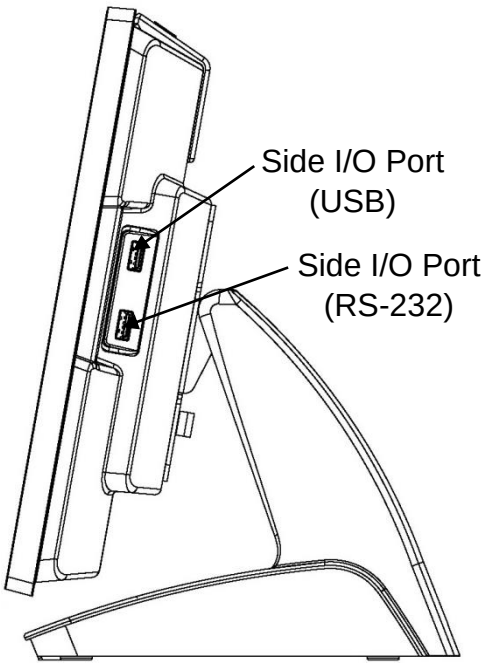
Left View (with Optional i-Button)



Left View



Right View (with Optional MSR)

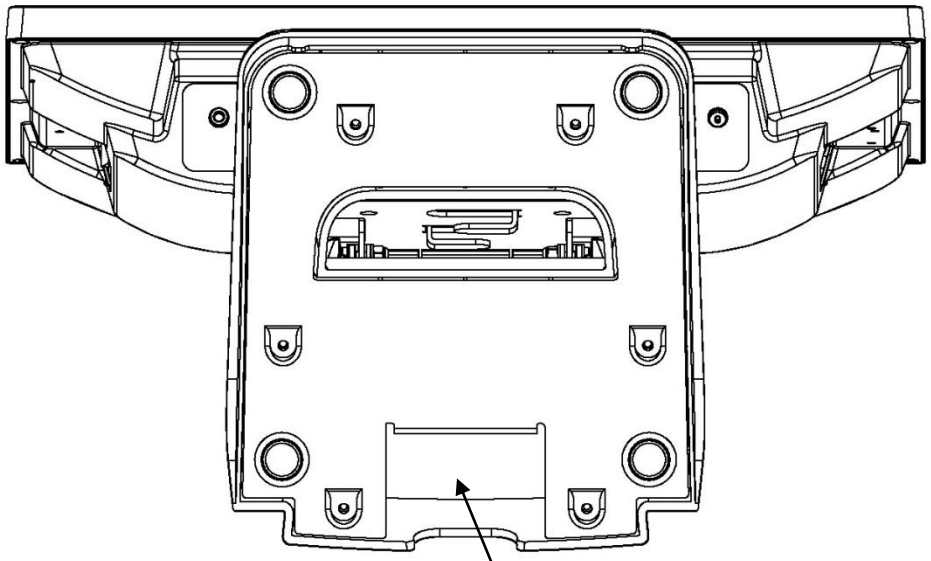


Right View

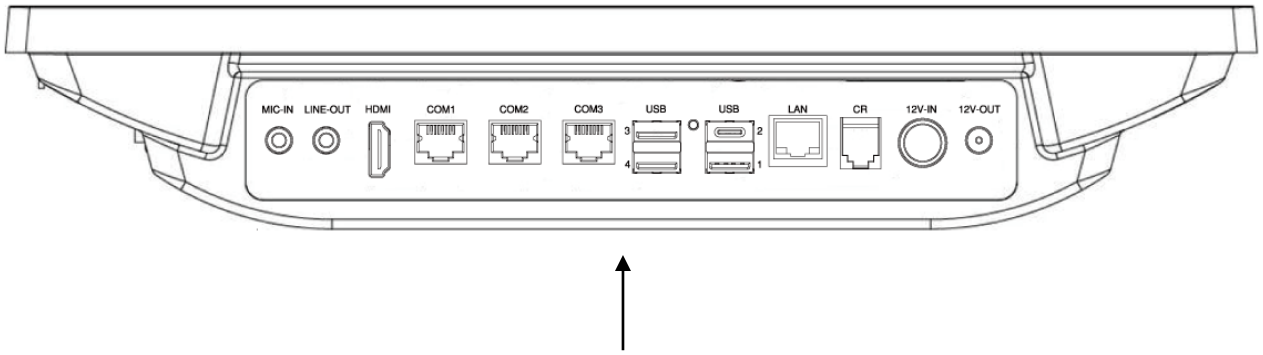
Note: The right I/O ports (USB, RS-232) are reserved for MSR Module.

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- Bottom View (Base)



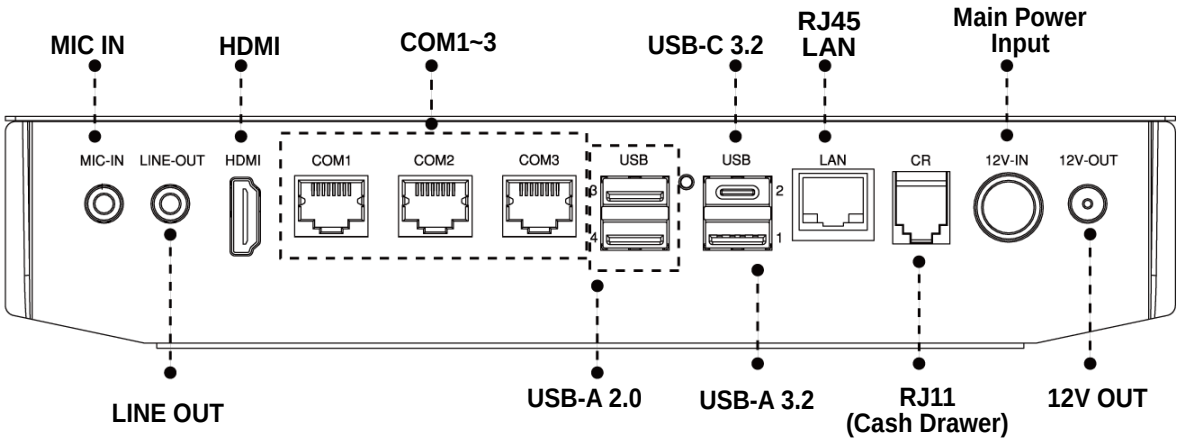
- Bottom View (POS Unit)



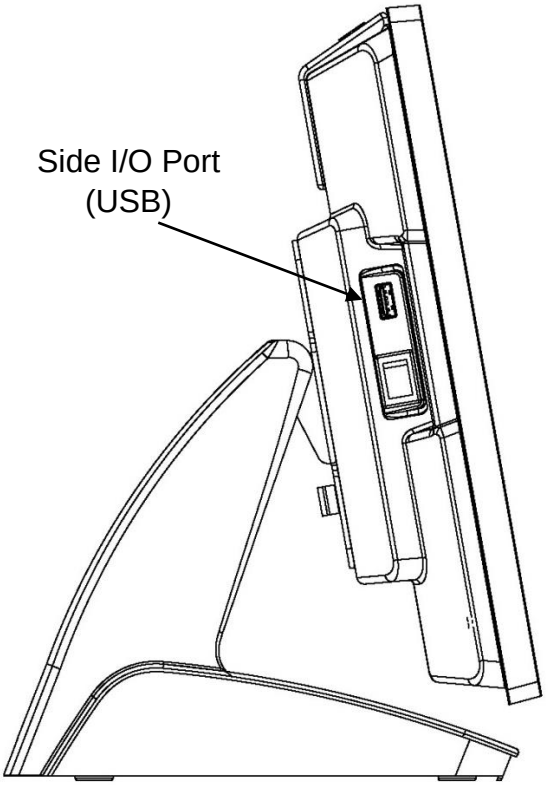
Bottom I/O Ports

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I/O Ports



Bottom I/O Ports



Side I/O Ports

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I/O Ports Descriptions:

I/O Port	Description
Mic In	1 x Mic-in for microphone.
LINE OUT	1 x Line-out for earphone or speaker.
HDMI	1 x HDMI for transmitting data to monitor
COM	3 x COM (RJ45) and 1 x COM (USB) COM1~COM3: RJ45, RI/5V/12V supported COM4: USB Type A
USB Ports	Connect devices with USB type A connectors Bottom: 2 x USB-A 2.0, 1 x USB-A 3.2, 1 x USB-C 3.2 Panel Side: 2 x USB-A 2.0
LAN	1 x RJ45 10/100/1000Mbps Giga Ethernet
CR	1 x RJ11 port, which supports 2 cash drawers with 12V or 24V
12V IN	1 x Standard DIN 4PIN type Main Power Connector
12V OUT	1 x +12VDC jack for customer display or 2nd VGA monitor.

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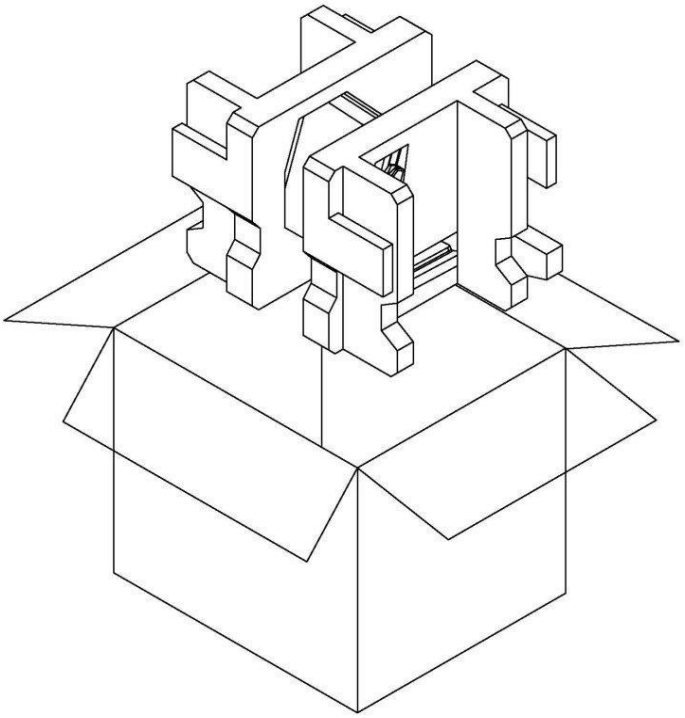
POS Installation

Unpack Your POS

The contents may vary with different options. If there's any physical damage or missing parts, please contact your supplier immediately. Please keep all packing materials in case you need to ship back the device for service.

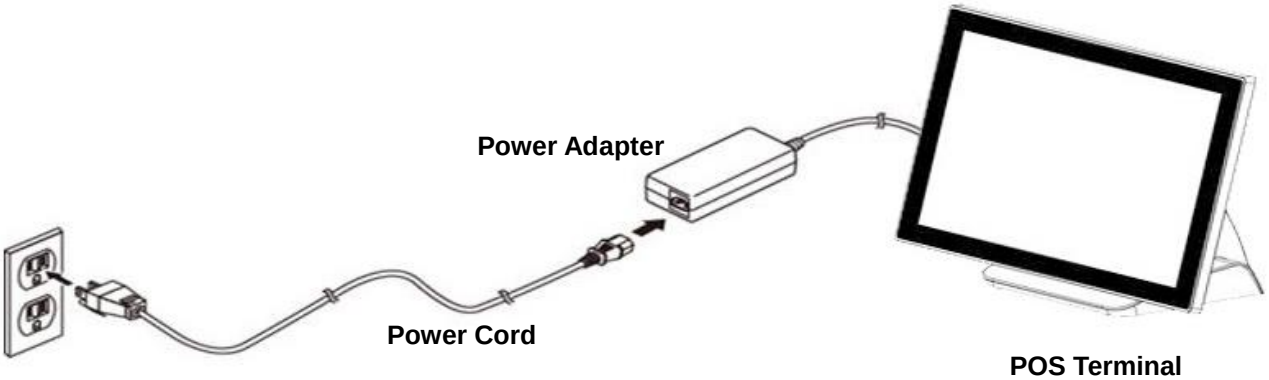
- **Unpacking**

  The product and accessories are packed in a paperboard carton. And it is wrapped by foam padding for protection during shipping.

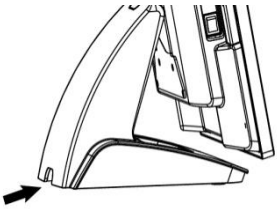


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Install Your POS



1. Place the POS terminal on a proper surface
2. Push/Pass the power cord of the power adapter through the Base Cable Slot and connect to the power port (Main Power Input) of the POS unit.
3. Connect the optional peripherals to the POS, e.g. Mouse, Keyboard, Barcode, etc.
4. Plug one end of the AC power cord to the power adaptor.
5. Plug another end of the AC power cord to the power supply or wall outlet.
6. Examine the Power Connector and Power Cord and make sure all cables properly connected to the POS terminal, Power Adaptor, and Power Source.
7. Turn on the switch of optional peripherals if installed, such as a Printer Unit, a 2nd Display, and other optional units.
8. Turn on the power switch of the POS terminal.



Base Cable Slot



Pass the Power Cord through Base Cable Slot

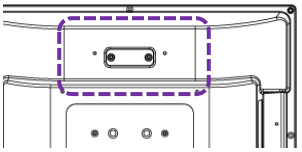
Note:

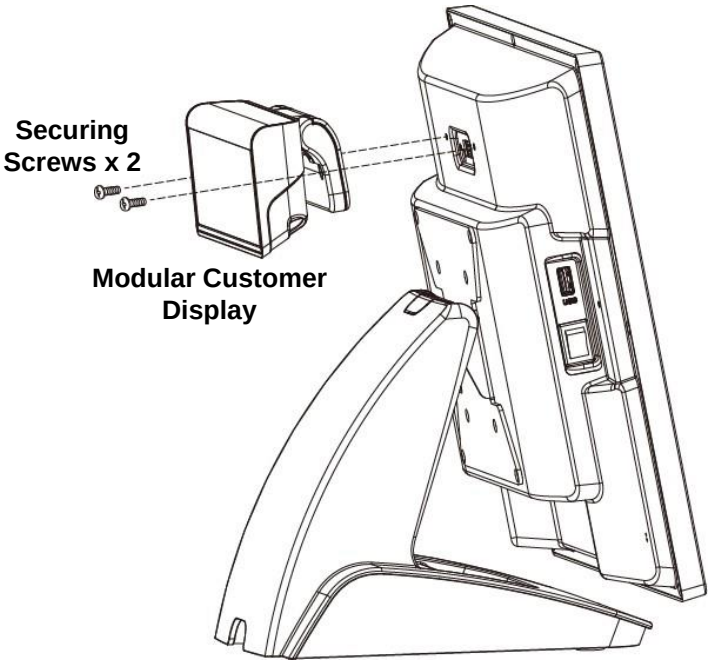
- Always install the POS terminal and the optional peripherals on a flat, clean and stable location.
- To prevent obstruction on the operator, reserve appropriate space for the POS terminal and remove unnecessarily objects or items.

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Appendix

Install the Modular Customer Display (Optional)

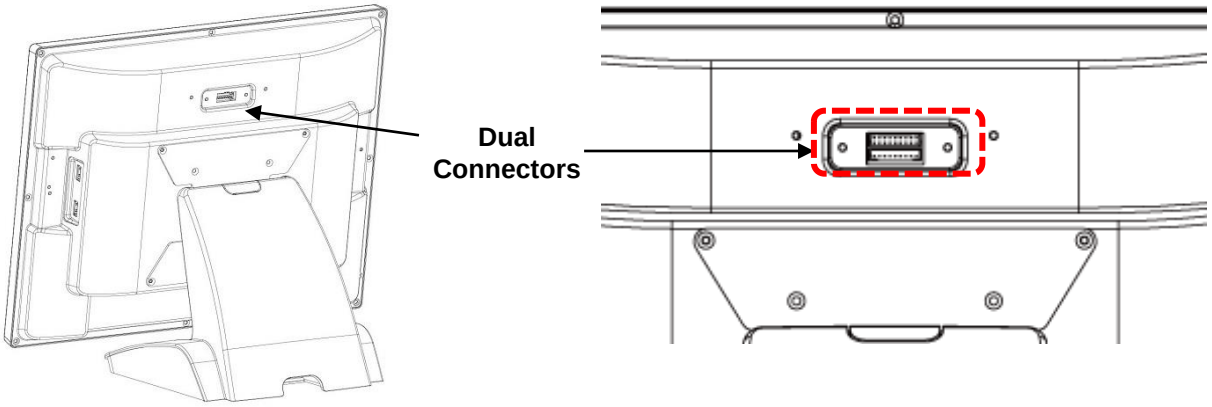


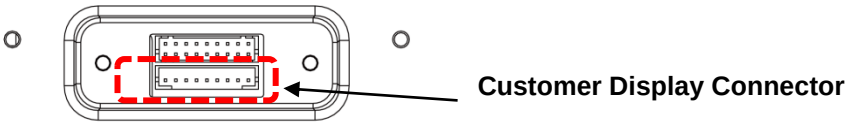


a. Remove the cover of the connectors
b. Connect the connector of the Modular Customer Display to the POS Unit (as indicated below by red mark).
c. Tighten the securing screws of Modular Customer Display.

- The 2nd display connector of POS Unit contain two parts(upper and lower half) for 2nd Display and Customer Display individually:

  Upper Half: connector for 2nd Display.
  Lower Half: connector for Customer Display.



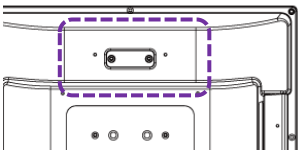


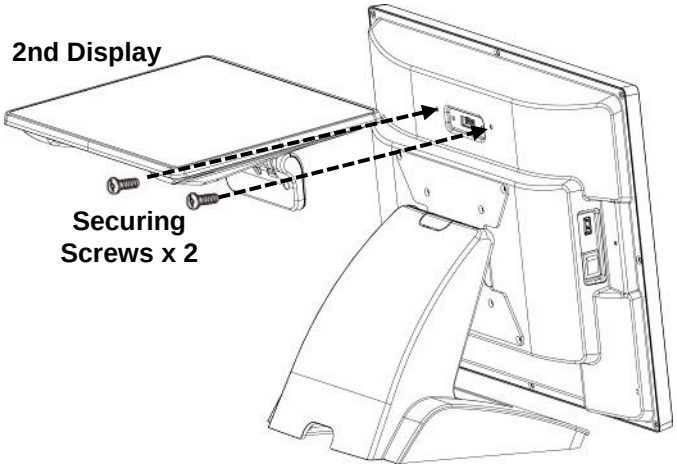
Note:

- The Modular Customer Display is an Optional Accessory and is not included in the standard package. Please contact your local representative for further information.

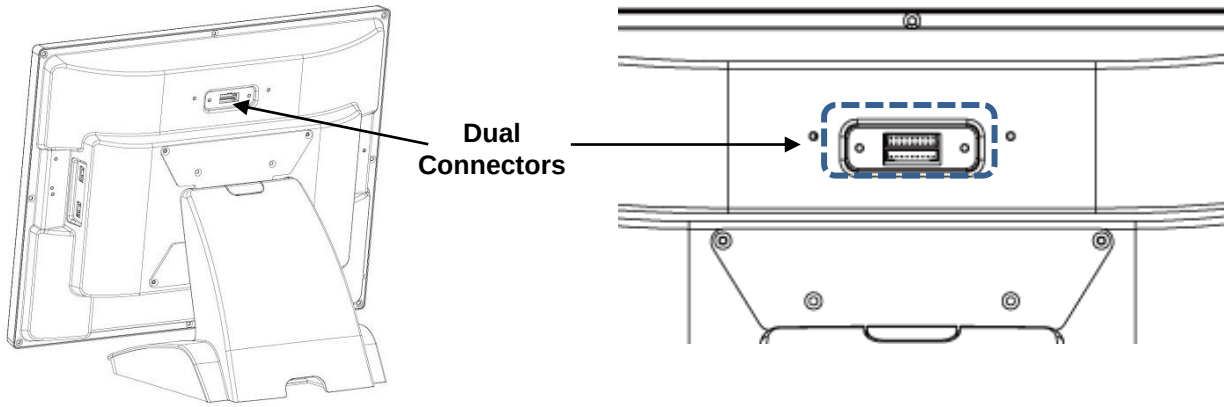
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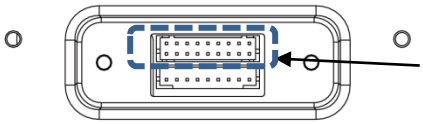
Install the 2nd Display (Optional)





a. Remove the cover of the connectors
b. Connect the connector of the 2nd Display to the POS Unit (as indicated below by blue mark).
c. Tighten the securing screws of the 2nd Display.



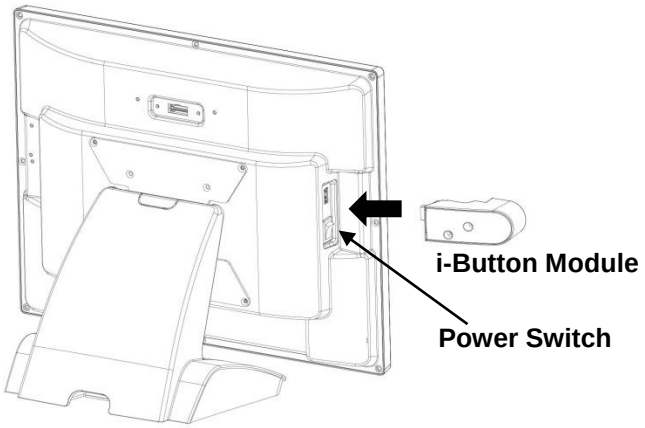


Note:

- The 2nd Display is an Optional Accessory and is not included in the standard package. Please contact your local representative for further information.

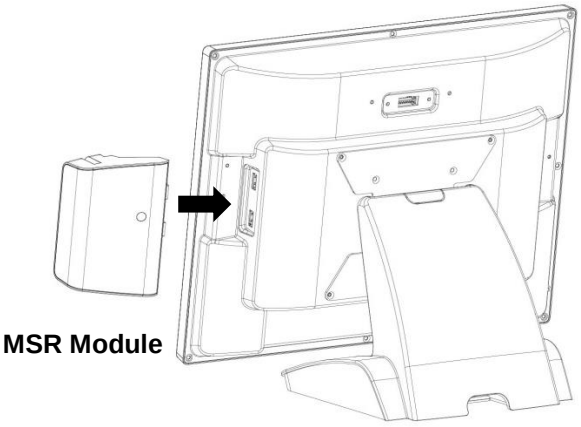
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Install the MSR & i-Button Module (Optional)

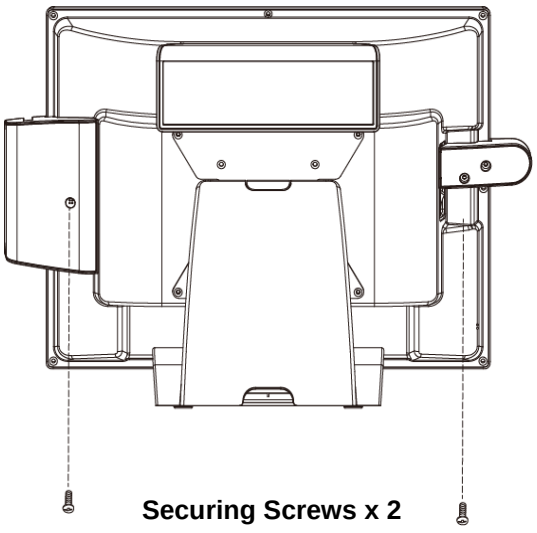


a. Switch the POS Unit Off.

b. Install the i-Button Module to the I/O port.



c. Install the MSR Module to the Side I/O port.



d. Tighten the securing screws and switch the POS Unit on

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