

# RiPac-10P1

10" Mini POS POS

## User's Manual

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1<sup>st</sup> Ed – 01 April 2016

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## FCC Statement



THIS DEVICE COMPLIES WITH PART 15 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 UNDESIRE OPERATION.

THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS "A" DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES.

THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND, IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS.

OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

## Notice

This guide is designed for experienced users to setup the system within the shortest time. For detailed information, please always refer to the electronic user's manual.

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1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into body, or (b) support or sustain life and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.
2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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Your satisfaction is our primary concern. Here is a guide to Avalue's customer services. To ensure you get the full benefit of our services, please follow the instructions below carefully.

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We want you to get the maximum performance from your products. So if you run into technical difficulties, we are here to help. For the most frequently asked questions, you can easily find answers in your product documentation. These answers are normally a lot more detailed than the ones we can give over the phone. So please consult the user's manual first.

To receive the latest version of the user's manual; please visit our Web site at:

<http://www.avalue.com.tw/>

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# 1. Getting Started

## 1.1 Safety Precautions

### Warning!



Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

### Caution!



Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

## 1.2 Packing List

- 1 x RiPac-10P1
- 1 x 19.5V Adapter
- 1 x Power Cord
- 2 x Paper Holder



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If any of the above items is damaged or missing, contact your retailer.

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## 1.3 System Specifications

System	
Processor	Intel Atom Z3735F 1.33GHz Processor
Memory	2GB DDR3L SDRAM
Wireless LAN	Built-In IEEE 802.11 b/g/n
Bluetooth	Built-In Bluetooth 4.0 + Class 1
Operating System	Windows 10, Linux, Android
Panel	
LCD Panel	10.1" LCD, 5" LCD (customer side)
Resolution	1280 x 800 (10.1"), 1280 x 720 (5")
Touch Screen	Projected Capacitive Touch
Storage	
Solid State Drive	32G (Default)/ 64G (Optional) eMMC
External I/O	
Serial Port	2 x RS232 in DB9, Powered with 5/12V
USB Port	4 x USB 2.0
LAN Port	1 x RJ45
Cash Drawer	1 x RJ11
NFC	ISO/IEC 14443 A/B, 15693/18092
Thermal Printer	
Printing Method	Thermal Dot Line Printing
Total Dots Per Line	576 Dots
Resolution	(W)8 Dots/mm, (H)8 Dots/mm
Max. Print Speed	200mm/s
Max. Print Width	72mm
Max. Paper Width	80mm
Paper Cutting	Full Cut & Partial Cut
Mechanical	
Power Type	19.5V/6.15A 120W Lockable Adapter
Power Connection Type	Lockable DC Jack
Dimension	(L)299 x (W)316.2 x (H)148.9
Weight	3KG±10%
Color	Black & Gray
Fanless	Yes
Reliability	
Certifications	CE/FCC
Operating Temperature	5°C ~ 40°C
Operating Humidity	0~95% Non-Condensing

## RiPac-10P1

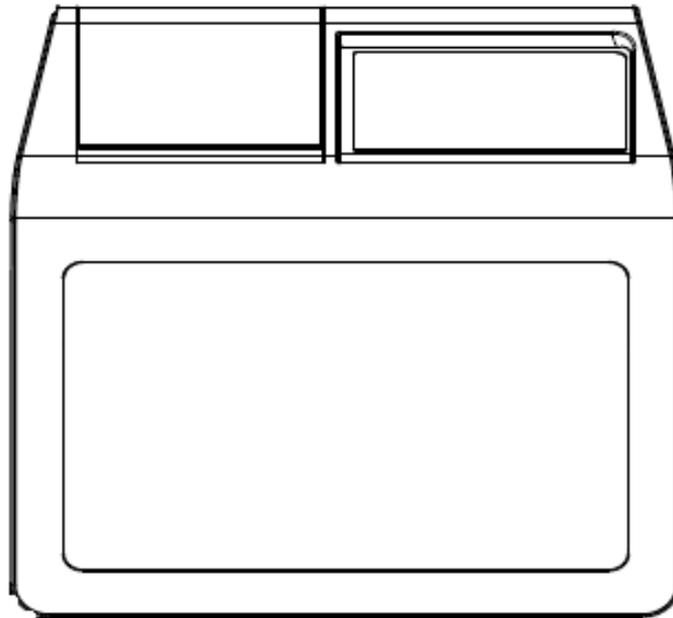
<b>Storage Temperature</b>	-10°C~60°C
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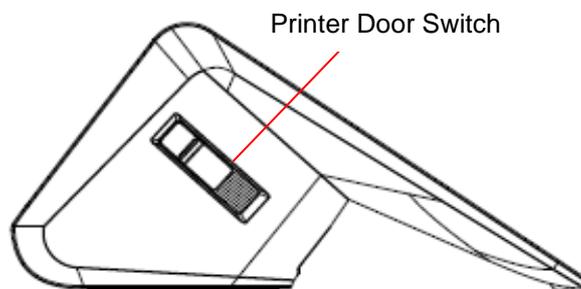
**Note:** Specifications are subject to change without notice.

## 1.4 System Overview

### 1.4.1 Top View

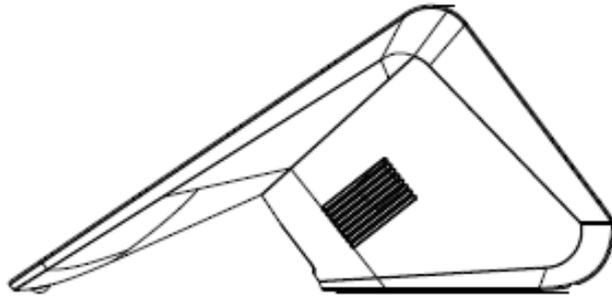


### 1.4.2 Left Side

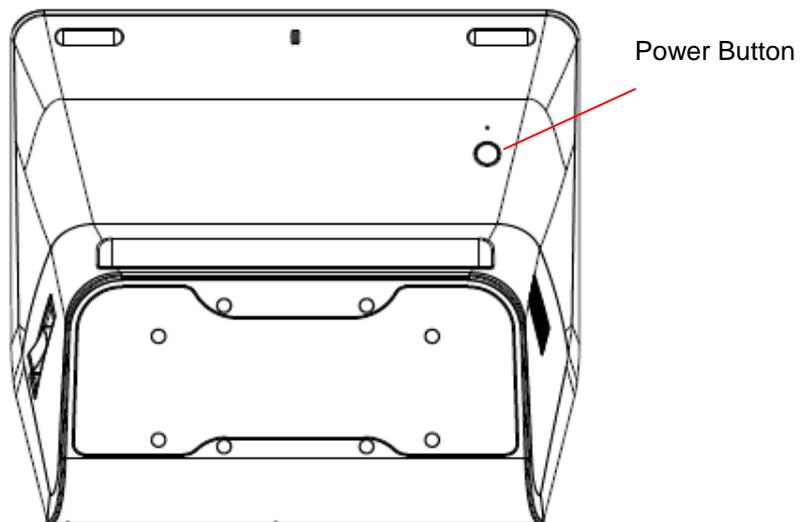


## RiPac-10P1

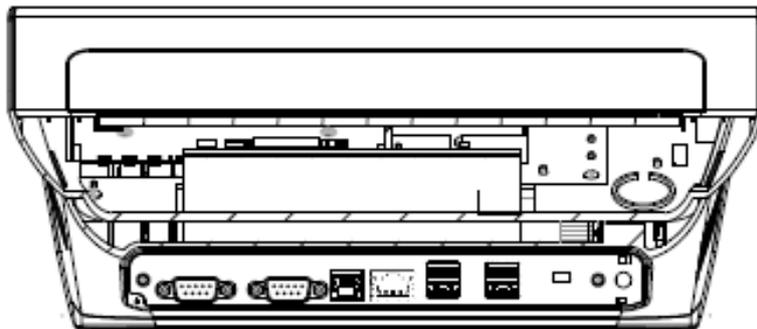
### 1.4.3 Right Side



### 1.4.4 Bottom



### 1.4.5 I/O Interface



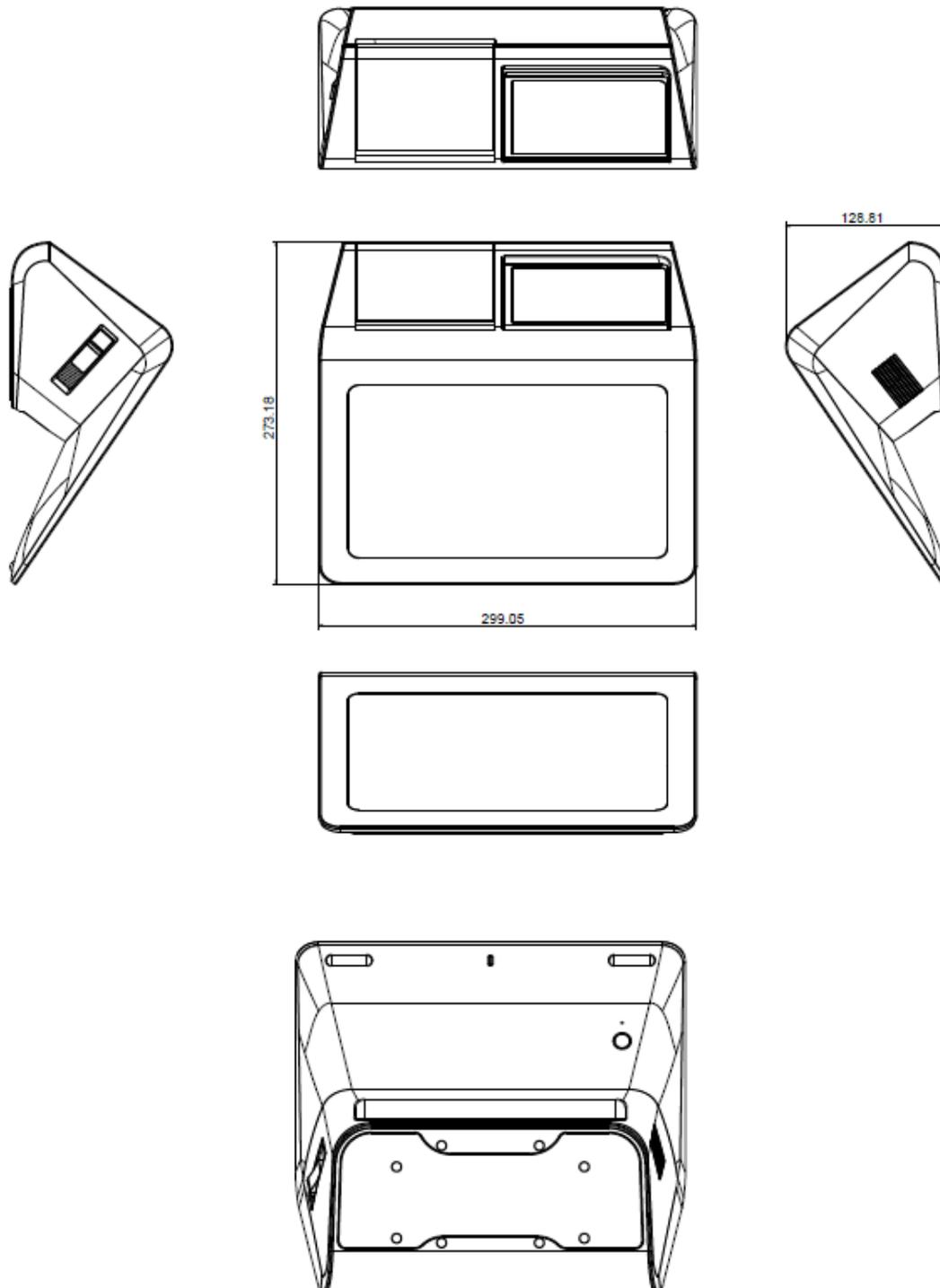
## Connectors

I/O	Function	Note
COM	Serial port connector (RS232)	DB-9 male connector
RJ11	Cash drawer connector	

<b>LAN</b>	1x RJ45 connectors
<b>USB</b>	4 x USB2.0 connectors
<b>Kensington Lock</b>	Kensington Security Slot
<b>DC-in</b>	DC Power-In connector

## 1.5 System Dimensions

### 1.5.1 RiPac-10P1



# 2. Hardware Configuration

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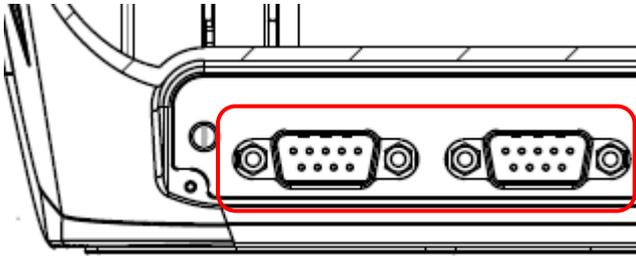
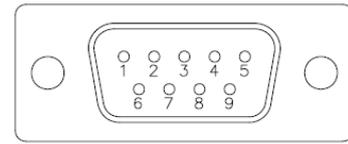


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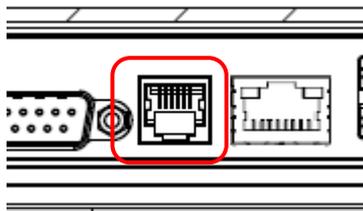
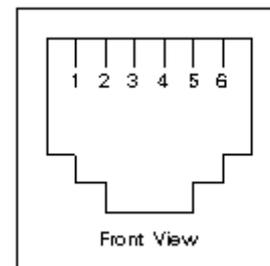
## 2.1 RiPac-10P1 Connector Mapping

### 2.1.1 Serial Port Connector (COM)



Signal	PIN	PIN	Signal
DCD#_1	1	6	DSR#_1
RXD_1	2	7	RTS#_1
TXD_1	3	8	CTS#_1
DTR#_1	4	9	RING/5V/12V
GND	5		

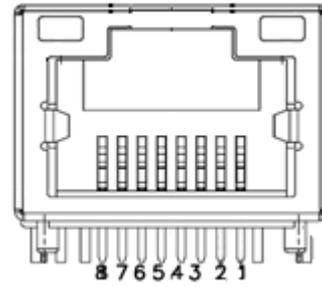
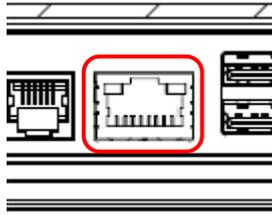
### 2.1.2 RJ11 Connector



Signal	PIN
GND	1
KICKOUT1	2
CASH_SENSE	3
+12VA_+24VA_CASH	4
KICKOUT2	5
GND	6

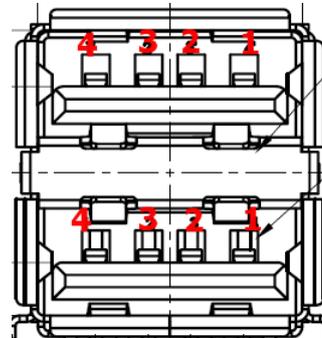
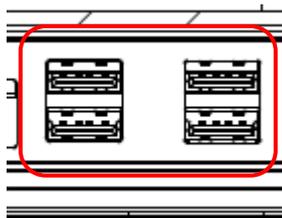
## RiPac-10P1

### 2.1.3 RJ45



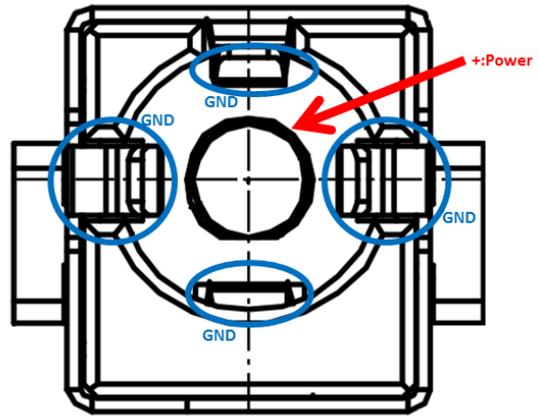
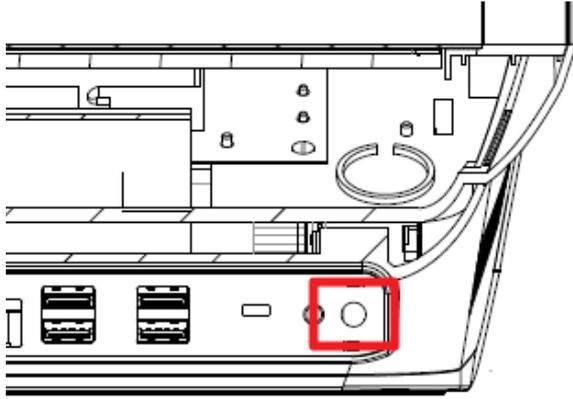
Signal	PIN	PIN	Signal
LAN0_MDIP0	1	8	N.C.
LAN0_MDIN0	2	9	Yellow_LED0-
LAN0_MDIP1	3	10	Yellow_LED0+
N.C.	4	11	Green_LED0-
N.C.	5	12	Green_LED0+
LAN0_MDIN1	6	13	N.C.
N.C.	7	14	

### 2.1.4 USB



Signal	PIN
VBUS1	1
USB20_N1	2
USB20_P1	3
GND	4

### 2.1.5 DC Jack



# 3. Peripherals

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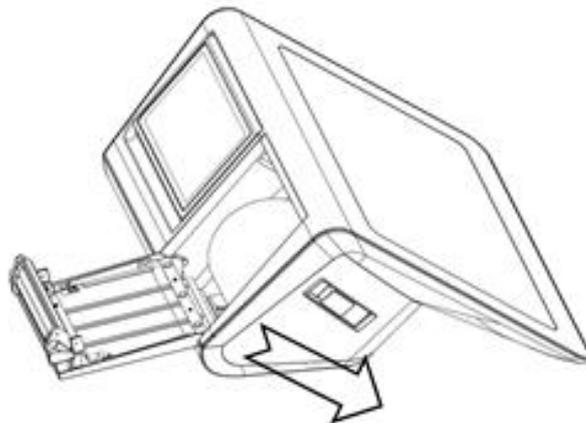
## 3.1 Thermal Printer

### 3.1.1 Thermal Printer Specifications

Thermal Printer	
Printing Method	Thermal Dot Line Printing
Total Dots Per Line	576 Dots
Resolution	(W)8 Dots/mm, (H)8 Dots/mm
Max. Print Speed	200mm/s
Max. Print Width	72mm
Max. Paper Width	80mm
Type of Paper Cutting	Full Cut & Partial Cut

### 3.1.2 Paper Roll Loading

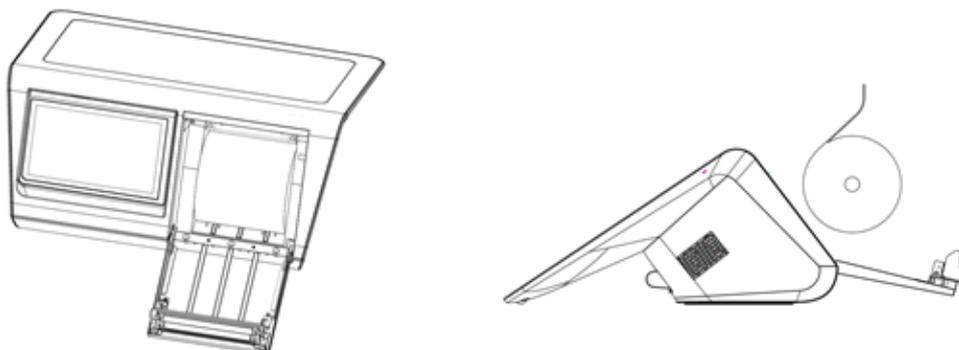
**Step 1** Push down the switch to open the paper roll door.



#### Step 2

##### 80mm Paper Roll

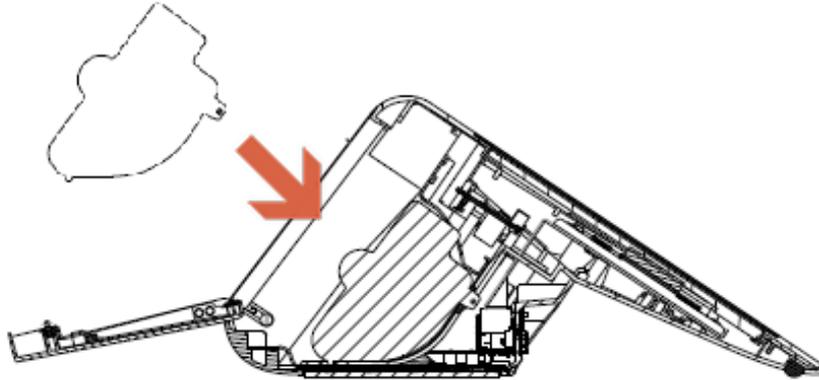
If you are using an 80mm paper roll, load the paper roll into the printer, in the direction indicated in below picture and close up the printer door after loading.



## RiPac-10P1

### 58mm Paper Roll

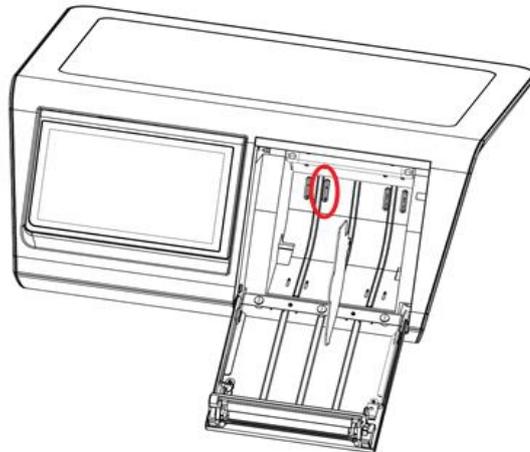
If you are using a 58mm paper roll, you can choose to load the paper roll either to the left, right or keep in the middle according to your printing settings and paper holders are provided to help keep the paper roll in place. Note that there are four holes in the printer for you to insert the paper holders.



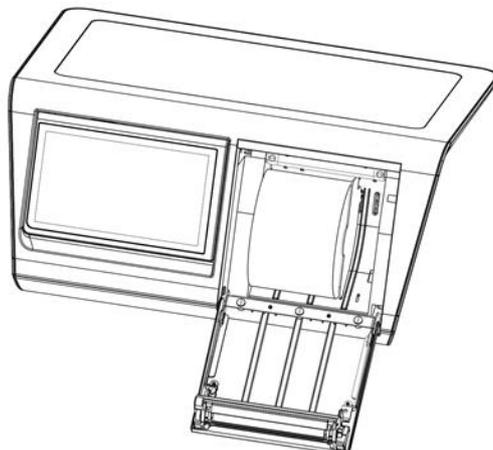
The methods for loading the paper roll are as below.

#### 1. 58mm Paper Roll on the Right Side.

Insert the paper holder into the second hole from the left.

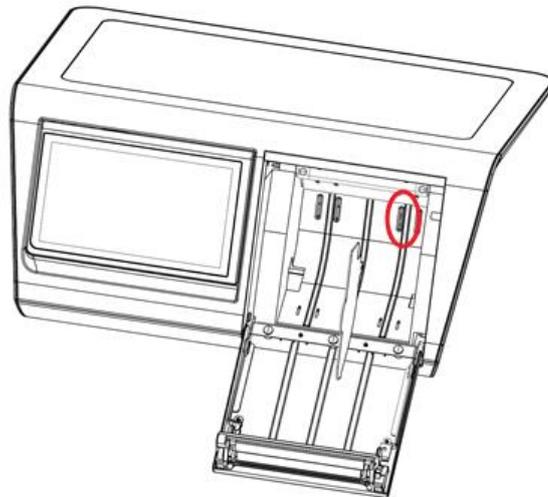


Load the paper roll to the right side and close the printer door.

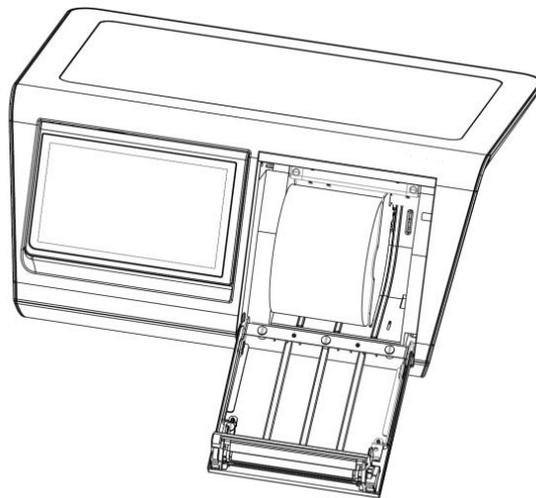


2. 58mm Paper Roll on the Left Side

Insert the paper holder into the second hole from the right.

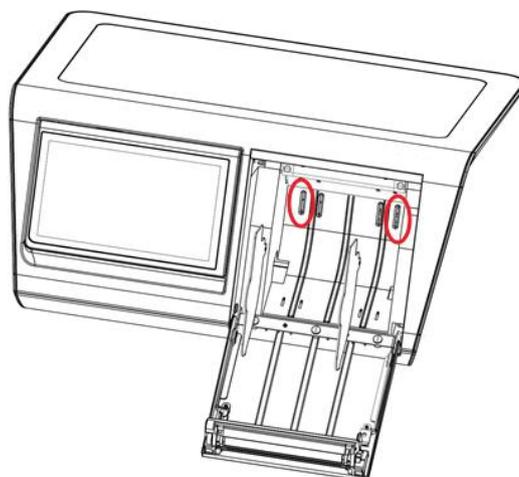


Load the paper roll to the left and close the printer door.



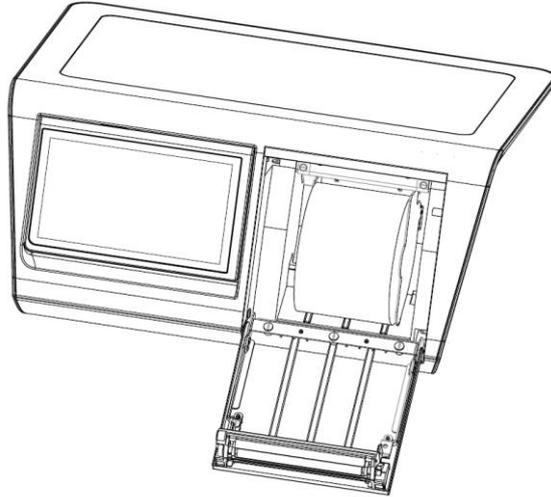
3. 58mm Paper Roll at the Middle.

Insert holders into the holes at the far left and the far right.

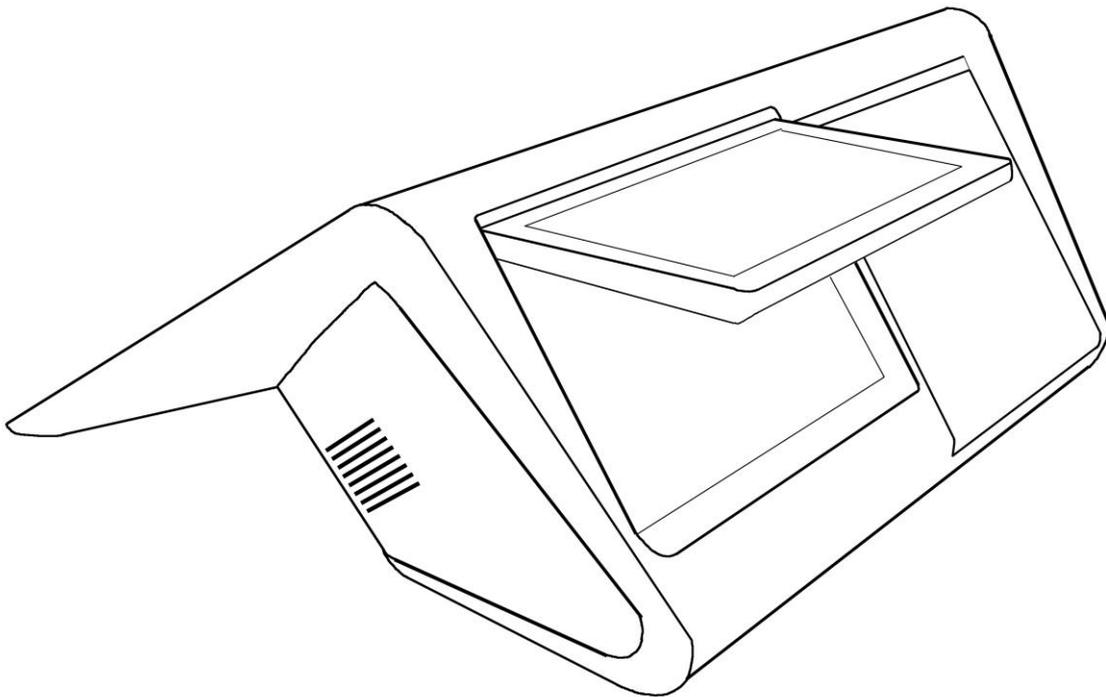


## RiPac-10P1

Load the paper roll in between the two holders then close the printer door.



### 3.2 Second Display



# 4. Hardware Maintenance

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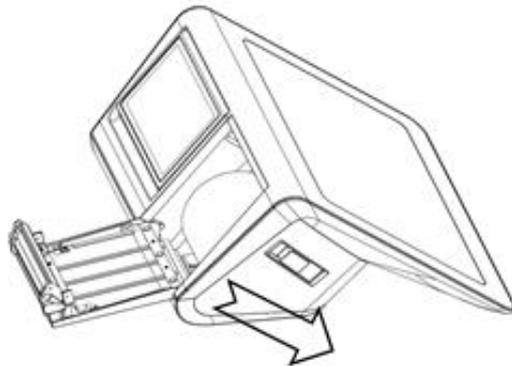


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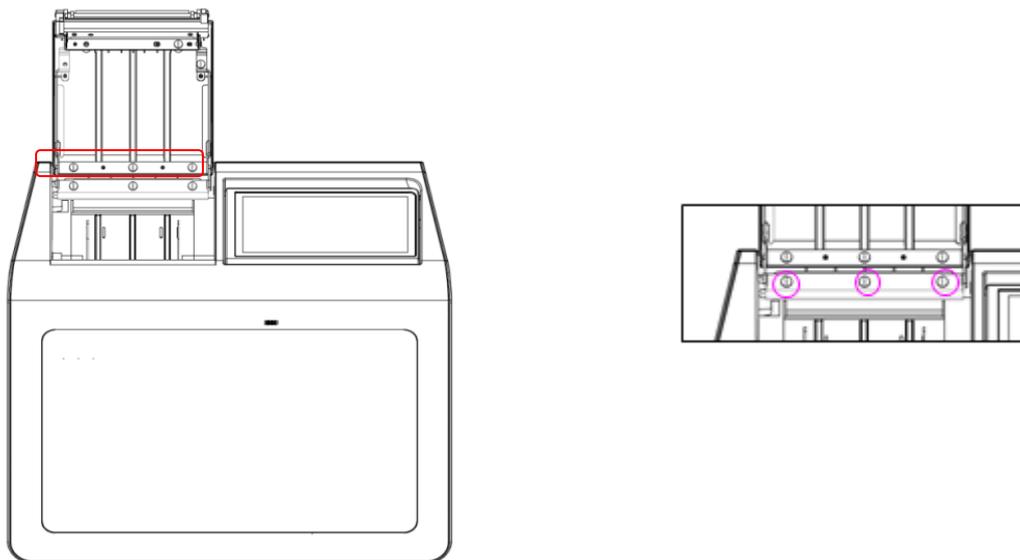
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## 4.1 Replacement of Thermal Printer Module

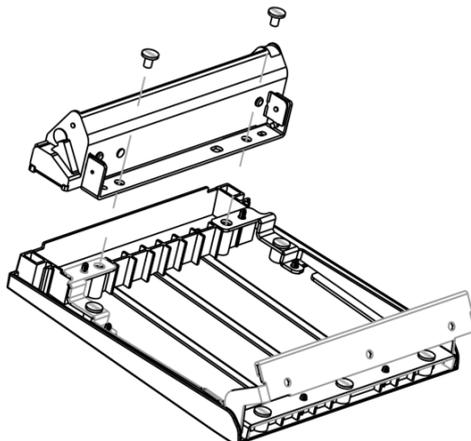
**Step 1** Push down the switch to open the paper roll door.



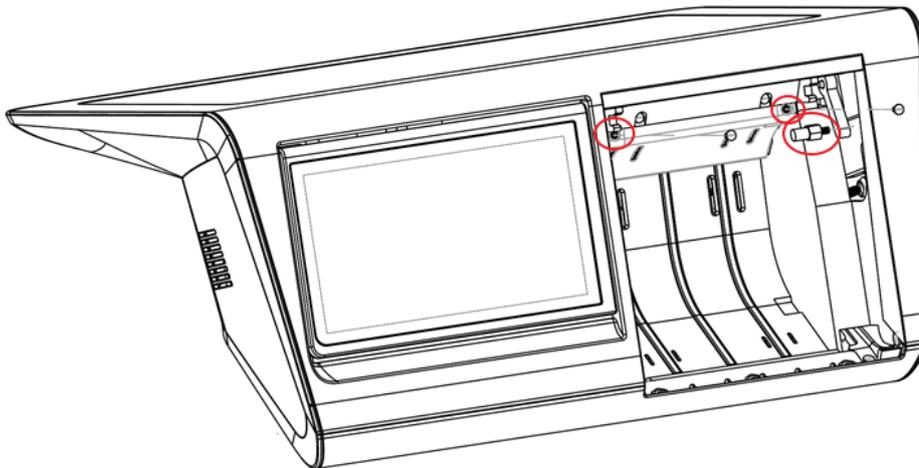
**Step 2** Unscrew the three screws that connects the printer door to the device in order to take down the printer door.



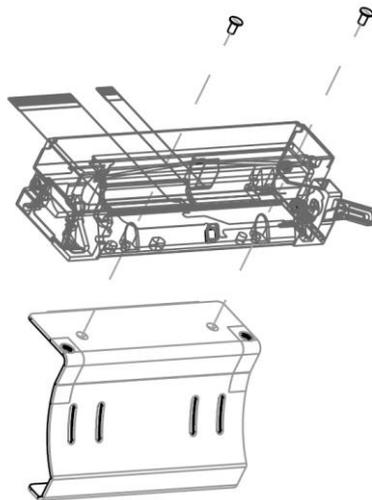
**Step 3** Unscrew the two screws on the printer door to remove printer wheel.



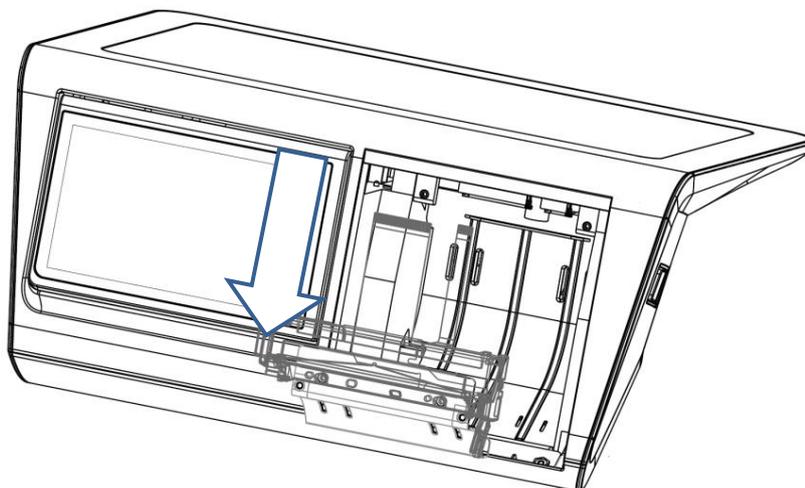
**Step 4** Unscrew the two screws and the hex bolt to remove the printer assembly.



**Step 5** Unscrew two screws on the printer assembly to take down the printer module.

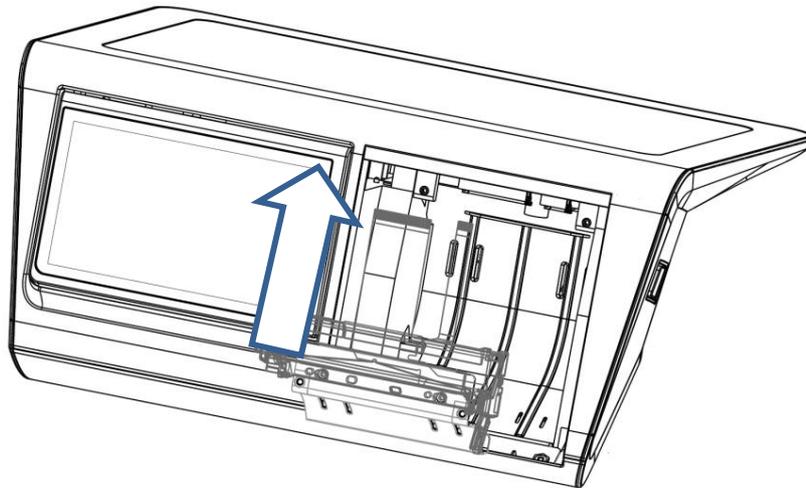


**Step 6** Disconnect the two FPCs from the PCB.

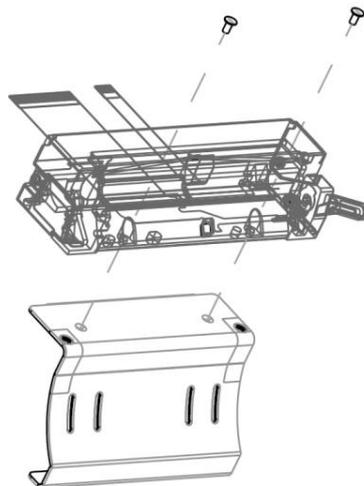


## RiPac-10P1

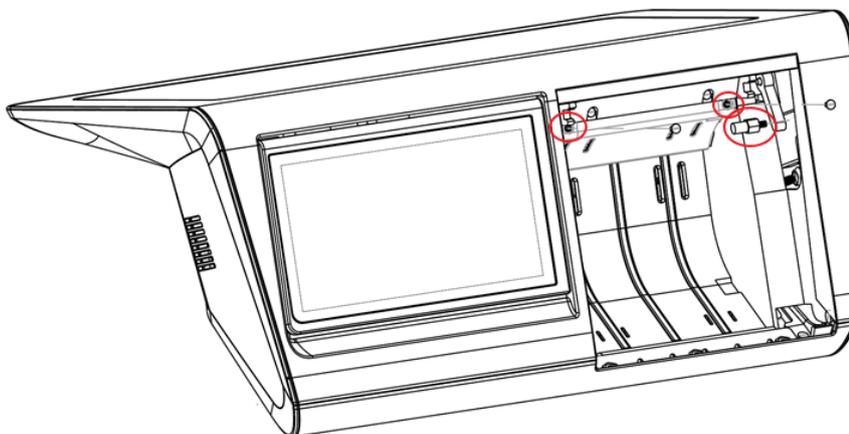
Step 7 Connect the FPCs of the new printer module onto the PCB.



**Step 8** Use the screws to tie the printer module.

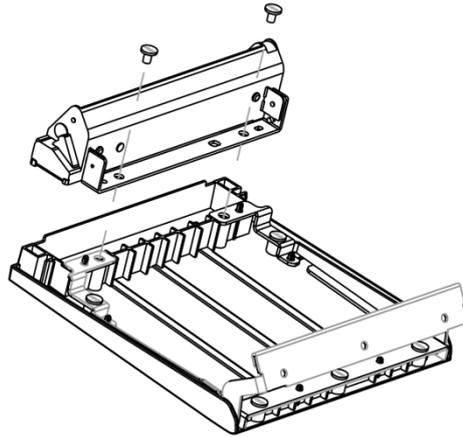


**Step 9** Install the printer assembly back into the device with the screws and insert the hex bolt back into place.



**NOTE:** Always install the hex bolt back before closing up the printer door.

**Step 10** Install the new printer wheel back onto the printer door.



**Step 11** Fix the printer door back onto RiPac-10P1 and close up the door.

