



SHENZHEN XINYOU TECHNOLOGY CO., LTD.

SNROTEK - Industrial Hardware, Made Integrator-Friendly | www.snroprinter.com | sales@snroprinter.com

SNR-EP5804 User Manual

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Overview

Special attention

SNR-EP5804 is available with two paper-roll bucket opening configurations. This manual covers the push-button and key-lock configurations so terminal users and developers can install and operate the printer correctly.

SNR-EP5804 58mm thermal panel printer - push-button paper-roll bucket opening.



SNR-EP5804 58mm thermal panel printer - key-lock paper-roll bucket opening.



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SNR-EP5804 is available in silver, white and black shell colors depending on project configuration.

Silver



White



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Black





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Specification

Power connection & Power supply

Model		SNR-EP5804
Print	Printing method	Thermal dot line printing
	resolution	203dots



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	Print speed	100mm/s (max)	
	Print width	384dots (48mm)	
	Paper width	58±0.5mm	
	Paper thickness	56~105um	
	Paper feed method	Easy loading	
	Paper cutting method	Full/Partial (controlled by commands)	
	Reliability	100KM	
	Activation pulse resistance	100,0000 pulses or more	
Character	FONT A	12*24 dots	
	FONT B	9*17 dots	
	GB18030 Chinese	24*24 dots	
	GB2312 Chinese	16*16 dots	
Detection	Thermal head temperature detection	Temperature sensor	
Condition	Working voltage	12~24 V	
	Standby current	12V	61mA
		24V	36mA
	Instantaneous maximum current	161mA	
Environment	Working temperature	-10~50℃ (no-condensation)	
	Working humidity	20%~85%RH (40℃/85%RH)	



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	Storage temperature(240hours)	-20~60°C (no-condensation)
	Storage humidity (240hours)	10%~90%RH (50°C/90%RH)
Dimension	hole	D96.4mm*W95.5mm
	dimension	100.1mm*55.8mm*99.8mm(L*W*H)
Mass	Push-button configuration	250g(without paper roll)
	Key-lock configuration	270g(without paper roll & key)
Interface		Serial(RS-232C/TTL) or USB
Paper roll diameter		50mm

Power connection & Power supply

Power cable





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	Power	printer
PIN1	GND	GND
PIN2	+12V~24V	+12V~24V

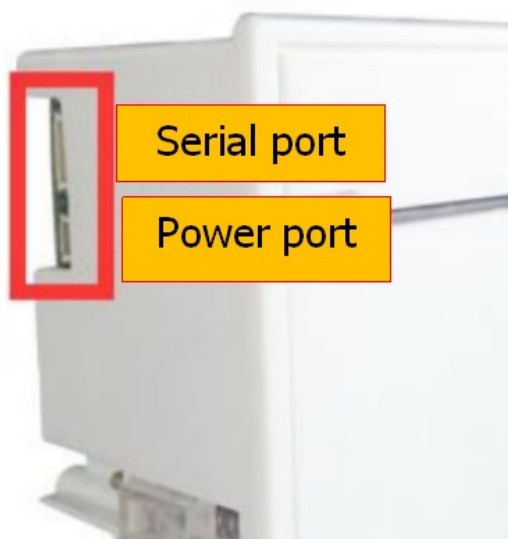
Power supply

Attention: Before plug in or plug out any interface and sockets, please make sure the the printer power is off.

1. Make sure the printer power is off
2. supplying power voltage should be between 12~24V
3. plug in power cable
4. power on printer, in the meantime , look at green LED on printer panel, it will light on normally, or please switch off printer power immediately .

Tip: Do not switching printer power on and off within 10s

Interface



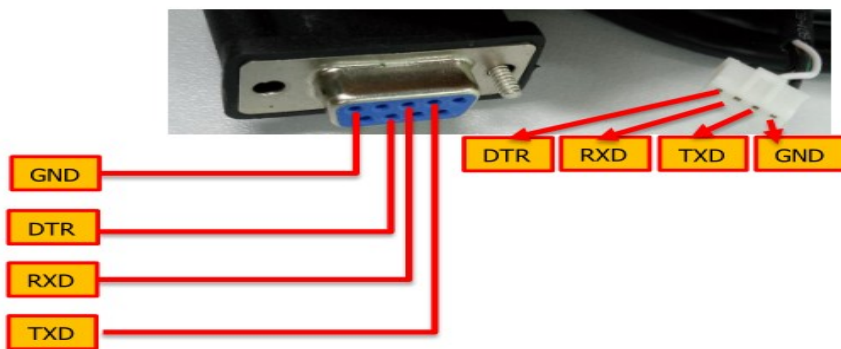


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Serial cable pin definition

As follow



RS-232:	logical voltage level 1 : -3V ~ -1 5V logical voltage level 0 : +3V ~ +1 5V
TTL:	output: low voltage level : 0; high voltage level : 3.3V;



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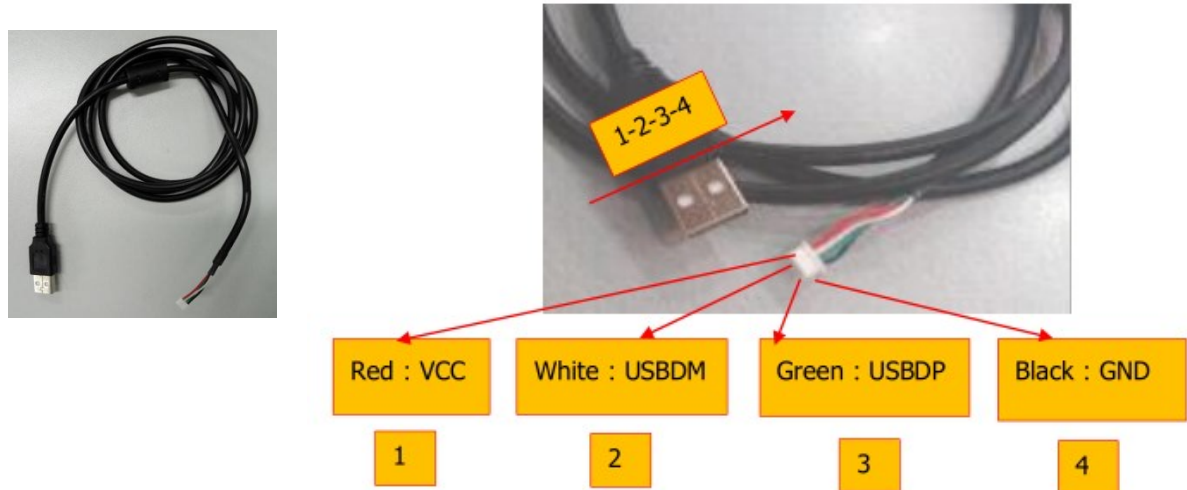
input:

low voltage level : 0;

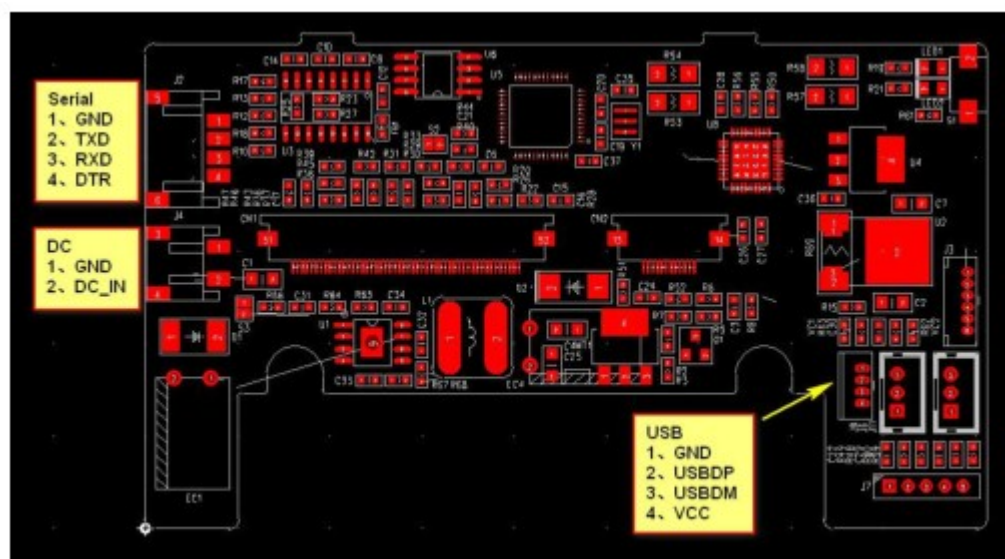
high voltage level : 3.3V

USB cable pin definition

As follow



Control board diagram





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Printer PCB board of connector:

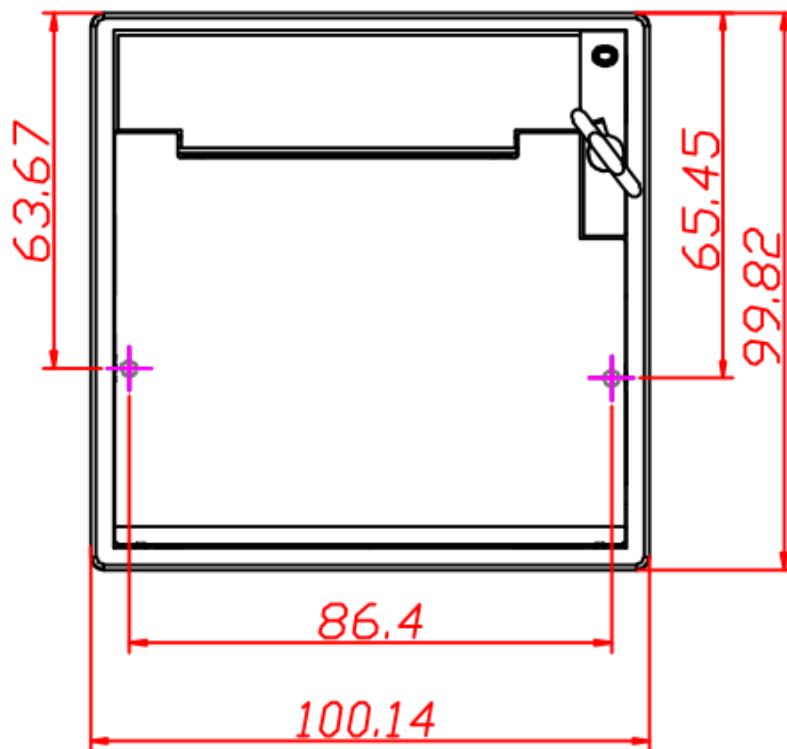
USB interface part No : MX1.25-4P (1.25 mm pin pitch)

serial interface part No: PH2.0-4P (2.0 mm pin pitch)

power interface part No: XH2.0-2P (2.0 mm pin pitch)

Paper nead end sensor part No: PH2.0-4P (2.0 mm pin pitch)

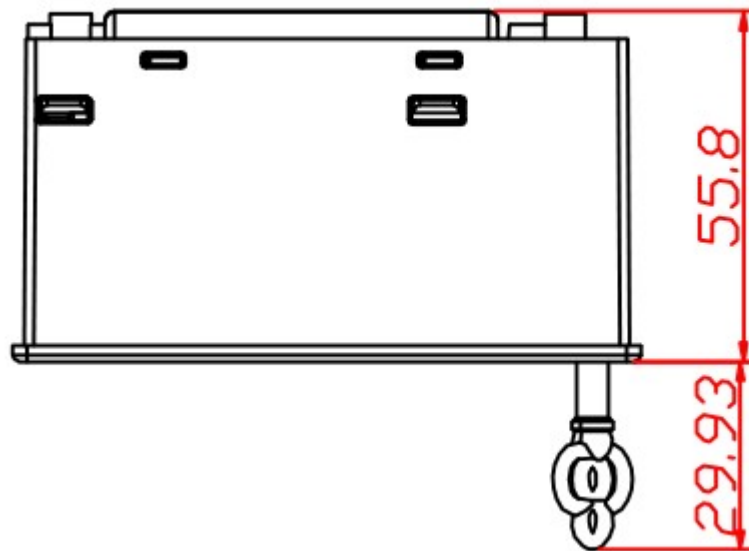
Dimension





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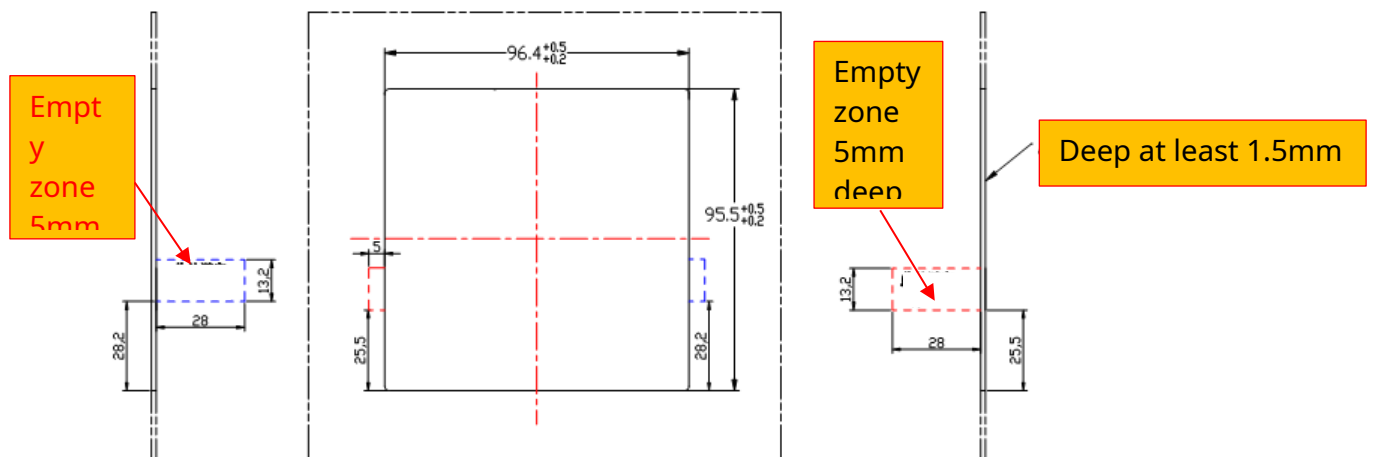


Installation & operation

How to Fix printer

Step1. punching a square hole on device panel

hole dimension should be: length $96.4^{+0.5}_{-0.2}$ *width $95.5^{+0.5}_{-0.2}$ *Deep55.8mm





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Step2. mounting printer

Mounting printer on device panel by the hole

Notice: there are two options for panel mounting

A. Mounting on top panel surface of device, application sample as below



B. Mounting on front panel surface of device, application sample as below



Step3, fixing printer



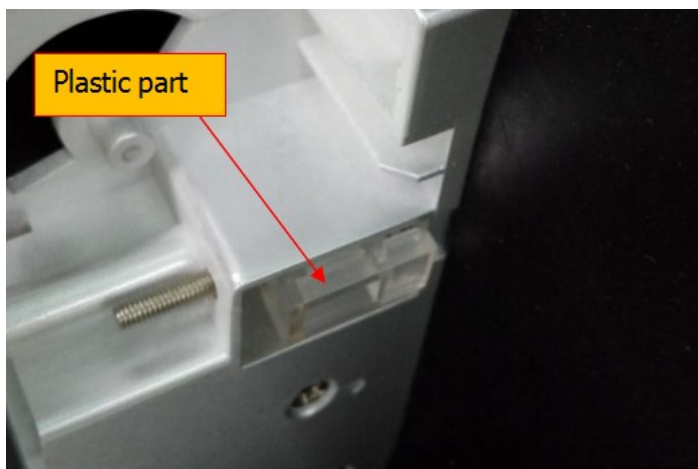
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Open printer panel and use screw driver to tighten left and right screws in roll bucket by clockwise direction. As below



Then check “ plastic parts” behind printer left and right side should come out and attached to inner cabinet panel of device tightly, as below



Attention:

- A. Anticlockwise screw driving is to loosen printer from device panel.
- B. Never fix the printer upside-down.



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Loading paper roll

Push-button configuration



- Press down button to open printer paper roll bucket
- Load thermal paper roll and make sure thermal coating layer upward
- Close printer paper roll bucket

Key-lock configuration

- Open paper roll bucket with designed key by SNROTEK



- Anticlockwise twisting to open

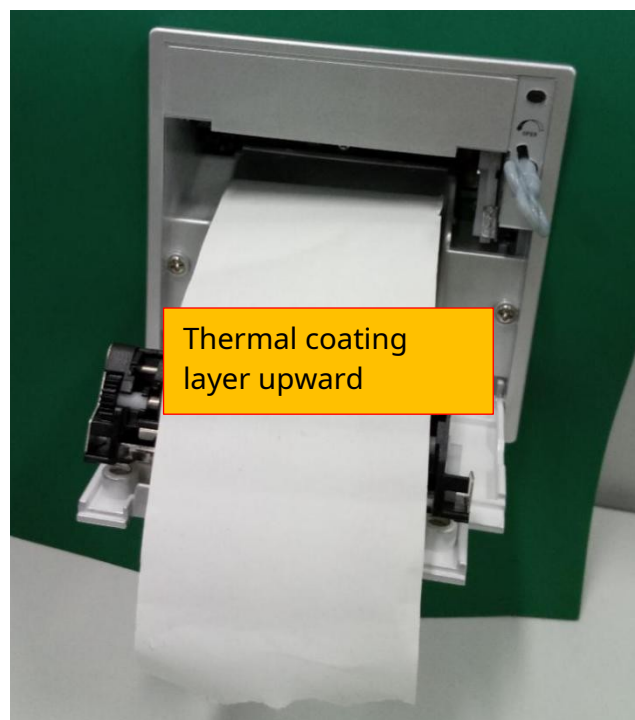


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- Load paper roll





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- Close paper roll bucket and pick up the key



LED indicators

- Green LED on : power on
- Red LED flash fast: input power voltage is abnormal.
- Red LED on :paper end or paper roll bucket unlocked.
- Green LED on,Red LED flash fast:self test finished, need to reload printer power.

Deal with paper jam

- If paper jam occurred,switch off the power, open printer roll bucket and get out jammed paper .
- Load paper again and power on. Send command :1D 28 41 02 00 00 02 to self test.

Self test page

Push-button configuration

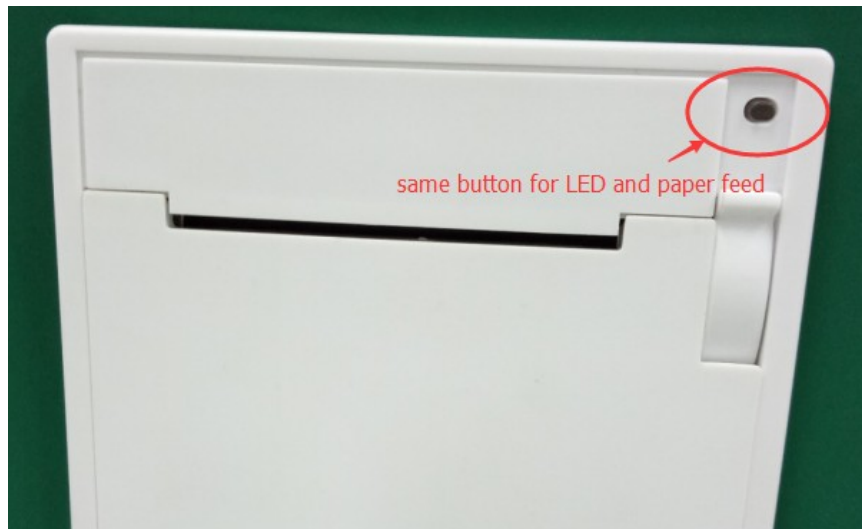


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how to print self-test page:

- turn off printer power
- Press the button(shiny button) , then power on
- A few Moment later,release the button, printer will go with a self-test page



Key-lock configuration

- This type printer has no button, send command to print self-test page is the only way
- Send command: 1D 28 41 02 00 00 02

[Both SNR-EP5804 configurations can print the self-test page by sending the command.]



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Notice: “self-test page showed complete configuration information of current printer by your hand. if printer can’t print correct “self-test page” out. That means this printer is in error status or damaged.

Configuration

A. Baud rate

Baud rate /bps	Hex commands
115200	13 42 52 01
38400	13 42 52 03
57600	13 42 52 05
9600	13 42 52 09
19200	13 42 52 13

B. Printing density

Printing density	Hex commands
70%	12 7E 46
85%	12 7E 55
100%	12 7E 64
115%	12 7E 73
130%	12 7E 82
150%	12 7E 96
175%	12 7E AF
200%	12 7E C8



Matters need to attention

Safety matters

1. Do not apply voltage or current to any pins excess of the absolute maximum ratings.If voltage or current in excess of the absolute maximum ia applied,excess current will flow through the device,which may result in heat damage.
2. Do not short-circuit any output pins with the power supply.
3. Do not drop conductive material onto the circuit board.Short circuiting pins on the board may cause heat damage due to excess current or may melt the bonding wire.
4. Be sure to connect the device with the specified cables.
5. Improper connection may cause fire or shock
6. Never disassemble or modify this product.Tampering with this product may result in injury,or electric shock.

Usage matters

1. User should use standard thermal paper, or it will influence our printer ,moreover ,it can damage thermal head gradually.
2. The width, inner diameter, outer diameter of paper roll have to meet standard requirements, or it can make paper sensor unable to work and paper jam.
3. Never use hard tools to clean the cutter, or it may result in unrecoverable damage to the cutter.
4. Never pull out the signal cable (USB & serial) or power wire when the printer is power on.
5. Never touch the printer head or motor driver at once directly after the printer has been working a long time, or will get scald.



6. There is great friction between the rubber roll and thermal head, so user cannot press feed button or print anything when there is no paper, or it can damage thermal sheet. Also cannot print when the platen open.
7. User should clean thermal head regularly with anhydrous alcohol to ensure the printer perform better and service life.
8. If the printer works outside, it needs to be cleaned regularly to ensure the sensors work reliability.

Storage matters

1. Be sure to set this equipment on a firm, stable, horizontal platform.
2. During transport or storage, protect the device by storing it in conductive sponge, aluminum foil, etc.
3. If the equipment falls, it may break or cause injury.
4. Excess of humidity and dust may destroyed the equipment.
5. Do not place heavy objects on top of this product. Never stand or lean on this product.
6. Equipment may fall or collapse, causing breakage and possible injury.
7. To ensure safety, please unplug this product if it unused for a long time.

*SNROTEK has the right to change the contents of the manual
without statement!