

## Product Description

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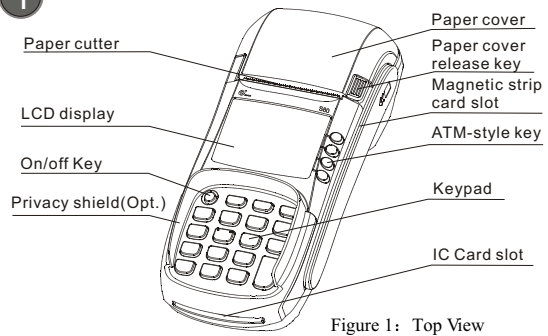


Figure 1: Top View

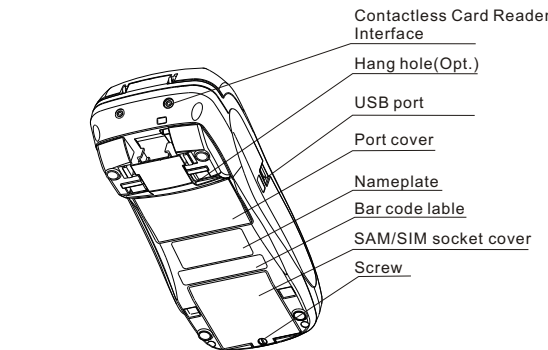


Figure 2: Bottom View

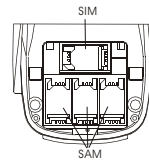


Figure 3: SAM/SIM Socket

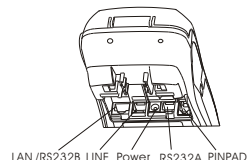


Figure 4: Ports at Bottom

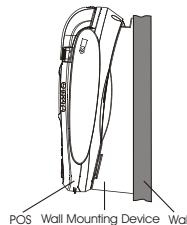


Figure 5: S80 Wall Mounting Device

Note: The above figure shows S80 equipped Wall Mounting Device which is optional.

## Installation

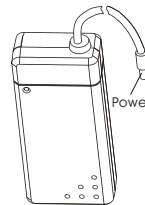
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- 1) Place S80 on table
- 2) Connect the attached cable
  - Remove port cover on bottom of S80
  - Connect each plug of the attached cables into the corresponding sockets on the rear panel of the terminal.
  - Put the port cover back.

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- 3) Insert the telephone cord supplied with the terminal into standard RJ-11 type outlet. Connect the other end of the telephone cord into a standard RJ-11 type modular telephone line outlet.

The figure below shows cable installation.



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- 4) Connect serial facility to RS232 socket.
- 5) Connect AC plug of power adaptor into AC socket.
- 6) Place paper roll into S80
  - Press the paper cover release key to open paper cover.
  - Insert paper roll along the arrow.
  - Lead the paper out and place the paper on paper cut and push the paper cover downward until a sound of “ka” can

- 7) Turn on S80, LCD backlight is on. On screen initialization and application interface show on one after another.
- 8) To perform a simulation of transaction successfully thus S80 installation is OK.

## Instruction

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- 1) Power on/off
 

Power on: Press the red button for about 2 seconds until LED backlight on, the POS is on.

Power off: Press the red button for about 2 seconds until the content of display vanishes, the POS is off.
- 2) Magnetic swipe
 

When pulling a magnetic card along the slot, make the magnetic stripe face the machine. Bi-directional pulling the magnetic card is acceptable. It is recommended from up to down, and with a steady speed.
- 3) IC card operational description
 

When insert a card, make the contact of the card upward. Gently insert and withdraw the card in order to protect the contact on card and IC card connector.
- 4) Tear paper operation
 

Hold the end of paper along with the paper cut as an angle of 45 degree and swiftly and evenly tear the paper off.

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*PAX TECHNOLOGY LIMITED reserves the right to change product technology specifications without notifying.*



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## Notice at Installation and Use

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- 1) Use a power bar well grounded and with a fuse in it.
- 2) Protect power supply cable and power adaptor. If they are broken, they are no longer be used.
- 3) Before connect power bar to AC socket, make sure the voltage is correct as POS states.
- 4) POS should be placed steady on table. It is not allowed make it under sun beam, high temperature, high humidity or place full of dust.
- 5) Keep it away from liquid.
- 6) Don't insert hard stuff into port which may damage POS severely.
- 7) When a POS is in failure, please contact designated personnel to maintain it. It is not allowed to repair it on your own.
- 8) When insert paper roll, do not touch paper cut and protect your finger from being hurt.
- 9) Only use designated paper roll to avoid paper jam or damaging the printer.

## Specification

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**Default**  
 CPU: 32-bit ,ARM9  
 Memory: 8MB Flash, 16MB SDRAM

Display: 128 x 64 pixel LCD, LED backlight  
 Keypad: 10 alphanumeric keys, 8 functional keys, 4 ATM keys, 1 switch(on) key  
 Magnetic Card Reader: ISO7812, Track 1/2/3, bi-directional swipe  
 IC Card Reader: 1, EMV2000 compliant  
 SAM Slots: 3, ISO7816  
 Modem: Sync. (HDLC up to 9600bps, V.21,V.22/V.22bis,V.29) Async. (V.92, up to 56Kbps)  
 Peripheral Ports: 1 RS232, 1 PIN Pad, 1 line port, 1 Phone port, 1 USB port  
 Printer: Thermal printer, Speed: 20 lines/sec, Paper width: 57mm Paper roll outer diameter: 50mm  
 Power Supply: Input: 100-240VAC, 50Hz/60Hz, 1.5A Output: 8.2VDC, 5A  
 Working Environment: Temperature:0°C~40°C(32°F~104°F) R.H. :10%~90%(non-condense)  
 Storage Environment: Temperature:-20°C~70°C(-4°F~150°F) R.H. :5%~95% (non-condense)  
 Dimensions: 216mm x 95mm x 86mm (L x W x H, including the keypad privacy shield)  
 Weight: 525g  
**Optional:**  
 Built-in Ethernet module

Built-in GPRS module  
 Contactless Card Reader (Can connect with an external contactless card reader as an integrated design of POS system. ISO/IEC14443 Type A/B, 4 LEDs RF Indicator)  
 Mass storage: 128MB

## PIN Protection

The following techniques can be employed to provide for effective screening of the PIN-entry during the PIN entry process. These methods would typically be used in combination, though in some cases a method might be used singly.  
 Positioning of terminal on the check-stand in such way as to make visual observation of the PIN-entry process infeasible.  
 Examples include:  
 Installing PED on an adjustable stand that allows consumers to

- Visual shields designed into the check-stand. The shields may be solely for shielding purposes, or may be part of the general check-stand design, e.g., used as selling area.
- Position the PED so that it is angled in such a way to make PIN spying difficult.

swivel the terminal sideways and/or tilt it forwards/backwards to a position that makes visual observation of the PIN-entry

process difficult.  
 Positioning of in-store security cameras such that the PIN-entry keypad is not visible.  
 Post instructions around check-stand, in order to inform customers. Instructing the cardholder regarding safe PIN-entry. When the cardholder input his/her PIN, he/she had better use his/her body and hands to prevent visual observation of PIN-entry process.

*Note: To protect the process of PIN-entry, it is not limited to the above methods and examples, merchants also can adopt other methods and steps to keep cardholder's PIN safe.*

S80 PIN-entry observation corridors v.s. PIN protection methods

Method	Observation Corridors				
	Cashier	Customers in Queue	Customers Elsewhere	On-Site Camera	Remote Cameras
S80 in Check-Stand with shield	H	H	M	H	H
S80 on Adjustable Stand	H	H	H	M	M
Post Customer Instruction	H*	H*	H*	H*	H*

*Note \*Customer instruction methods are less repeatable and therefore should be used in combination with other methods. Security levels: L = low, M = medium, H = high*

**CAUTION—To reduce the risk of fire, use only No.26 AWG or larger telecommunication line cord**

## S80 Handover Countertop Payment Terminal



Note: RSS232 Port only used as upgraded EUT by manufacturer

## Warning :

We declare that:

The FCC ID label is placed on Payment Terminal clearly visible to all persons at the time of purchase.

The user is cautioned that changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

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, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Do not attempt to disassemble the Payment Terminal by yourself. Non-expert handling of the devices may damage them.

Your Payment Terminal is a radio transmitter and receiver. It is designed and manufactured not to exceed limits for exposure to radio frequency (RF) energy set by the Federal Communications

Commission (FCC) of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age or health. The exposure standard for Payment Terminal employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limits set by the FCC are 1.6 W/Kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the Payment Terminal transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the Payment Terminal is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station, the lower the output power.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.