

**FEITIAN**

# ePayPOS600 Introduction

V1.0

Feitian Technologies Co., Ltd.

[www.FTsafe.com](http://www.FTsafe.com)

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# Chapter 1.ePayPOS600 Product Introduction

## 1.1 Product Introduction

Feitian Pay POS600 is a POS product with PCIPTS4.1 certification. It has a stylish and tiny design. Connect with a smart phone or tablet via Bluetooth interface, you can easily and quickly complete the payment process. It can achieve payment progress any time any where which provides users with a new experience of payment.

This product uses a brand new software structure, user can deploy applications directly on the phone or tablet and other intelligent terminals, rapid application development, simple deployment and easy to extend. Application can be upgraded remotely, lower the following cost of development and maintenance.

### **The features of this product:**

#### ■ Compact

The appearance is compact and portable, suitable for mobile use.

#### ■ Powerful

Support magnetic stripe card, contact card and contactless card. Support Micro USB and Bluetooth.

Support iOS/Android/Windows system.

#### ■ Certified

PCI4.1, EMV L1&L2, PayPass, PayWave certified

#### ■ Remote upgrading

Firmware can be upgraded remotely, reducing the cost of late development and maintenance.

## 1.2 Product Appearance

The ePayPOS600 product appearance is shown as follows:



Figure 1ePayPOS600appearance figure

## 1.3 Specifications

### 1.3.1 Dimensions

59mm(W)x12.4mm(H)x113.6mm(L)

### 1.3.2 Keypad

ePayPOS600hasan built-in passwordkeyboard, thekeys aredescribedin thefollowing table.

Table1ePayPOS600keyboard

Name	Description
0~9 Number Keys	1. To input numbers from 0 to 9, amount, password, etc 2. The number keys 2, 8, 4, 6 respectively for up, down, left, right
*	* menu
#	# menu
<	function menu

X	To cancel current operation
OK	To confirm current operation

### 1.3.3 Screen

Uses 128x64 LCD with backlight, supports both Chinese and English.

### 1.3.4 Communication Interface

#### ■ MicroUSB

When the device is connected to the host (for example, PC) through this interface, this interface provides two functions such as charging and data transfer.

#### ■ Bluetooth 4.2

This device can be connected to smart phone or tablet through this interface.

### 1.3.5 Battery and Power Source

Built-in rechargeable (through Micro USB) lithium battery, 500mAh/3.7V, with charge protection.

### 1.3.6 Buzzer

Notify the user by beeping when needed.

### 1.3.7 Contact IC card Reader

Support contact IC card (ISO/IEC 7816-1/2/3/4 Chip Card), Type A/B/C. When inserting the IC card, please let the chip side toward the side of the screen.

### 1.3.8 Contactless IC Card Reader

Support contactless IC card (ISO/IEC 14443 Type A, ISO/IEC 14443 Type B, working frequency 13.56MHz)

### 1.3.9 Magnetic Stripe Card Reader

The magnetic stripe card must be compliant with ISO 7812 standard. The magnetic stripe card reader can read data from magnetic track 1, 2, 3 at the same time, support bi-directional swipe, swipe speed ranges from 10mm/s to 100mm/s. The life cycle is over 300,000 times. The magnetic stripe must be backward when swiping card.

### 1.3.10 LED Indicators

The ePayPOS600 comes with four LED indicators, respectively, red, green, yellow and blue.

### 1.3.11 Features

- Tamper-proof and anti-power-down protection;
- Support DUKPT key systems
- RSA、AES、3DES、SHA-1、SHA-256; Support RSA, AES, 3DES,SHA-1, SHA-256
- Support SM2, SM3, SM4
- Physical tamper-proof has self-destruction function;
- Support red envelopment;

## 1.4 Certifications

- PCI PTS 4.1 certified;
- EMV L1/L2;
- EMV Contactless L1;
- PBOC3.0 L1/L2;
- MasterCard PayPass;
- Visa PayWave;

## 1.5 Compatibility

- iOS 6.0 or later;
- Android 4.3 or later;
- Windows XP or late

## 1.6 Installation

### Step 1. Charging the device

- Insert the USB charging cable into the micro-USB socket at the bottom end of the device.
- Connect the other end of the USB charging cable into a powered USB socket.
- A charging symbol will appear over the battery symbol in the top right hand corner of the device during

charging.

- Charging of the battery will typically take between 2 and 4 hours, whilst not in use.
- Battery condition is indicated in the display when the device is switched on.
- The terminal is fitted with an internal rechargeable battery which cannot be removed or replaced. This battery should be charged for at least 3 hours when using the terminal for the first time. It is recommended that the battery is charged to at least 40% of its capacity every 4 months.

### **Step 2. Turning on the device**

- Hold down the power button until the display illuminates.
- If required, remove the protective film from the display.

### **Step 3. Mobile payment application and pairing**

Please follow the instructions provided by your bank or service provider to download the mobile application onto your mobile device and to pair it with the SPm3.

### **Step 4. Performing a chip card sale transaction with PIN**

- When prompted, insert the customer's chip card into the slot at the right hand side of the device with the chip facing upwards.
- Follow the instructions provided by your bank or service provider to complete the transaction.

### **Step 5. Performing a magnetic stripe transaction**

- During device operation you may be prompted to read a presented card by means of the magnetic stripe.
- The magnetic stripe reader is a slot positioned on the top of the device. Swipe the card in a single smooth motion from left to right.
- Follow the instructions provided by your bank or service provider to complete the transaction.

### **Step 6. Performing a contactless transaction**

- Transactions may be completed using a contactless card or enabled product. The device will display the

contactless symbol on the display.

- To read a contactless card it must be positioned in close proximity to the device over the contactless symbol. Once detected the four LEDs at the top of the device will go green and there will be a confirmation beep.

- Follow the instructions provided by your bank or service provider to complete the transaction

### **Troubleshooting**

In the unlikely event you experience issues with this product, please follow the guidelines below. If this does not resolve the issue, please visit [www.spirepayments.com](http://www.spirepayments.com) or your solution provider for further assistance.

#### **No display**

- Charge the device with the supplied USB cable.
- Ensure the USB socket being used is powered.

#### **Poor battery life**

- Ensure the power is being supplied during charging.
- Check battery charge indicator is at maximum
- Charge for 2 to 4 hours to ensure a full charge whilst not in use.

#### **Pairing problems**

- Refer to pairing instructions.

#### **Cannot read Cards**

- Ensure the magnetic stripe card has been swiped in the correct orientation.
- Ensure the chip card has been inserted in the correct orientation.
- Check the contactless symbol is on the device display. Ensure the contactless card has been placed at a distance of 0 to 4 cm from the device display.
- Test with another card of the same type.



### Caution and Safety Instructions

- Do not attempt to disassemble, modify, service or repair any part.
- Do not use if damaged or with signs of tampering.
- Only use the device with supplied or manufacturer-certified accessories.
- To avoid the potential hazard of electrical shock do not use in wet environments or during an electrical storm.
- Do not use in proximity of potentially flammable gases or substances.
- Ensure cables used do not cause a trip hazard or risk the device being dropped on to a hard surface.
- Do not expose to excessive heat or cold. Only operate between 0 °C and 40 °C.
- Before cleaning, disconnect from the electrical outlet. Use only a dry or dampened soft cloth.
- Do not immerse, use liquids, sprays or aerosol cleaners. Clean all spillages quickly.
- This device is intended for handheld use only or in an approved cradle/stand.
- Dispose any part in an environmentally sound manner and in accordance with local laws.
- Spire Payments will not be held liable for any damage resulting from user operation that does not comply with the above-stated guidance.
- If the device will be stored/unused for extended periods of time, then it is imperative that the battery be recharged every six months or sooner to at least 30–40% of maximum charge while the terminal is in 'OFF' position.
- Only operate the Reset button if the screen is unresponsive or frozen and does not react to holding down the power on/off key

### Frequency bands

- Maximum radio frequency power transmitted in the frequency bands in which this radio equipment operates is below the limit values specified in the corresponding Harmonized Standards.
- The frequency bands and peak power applicable to this radio equipment are: Bluetooth: 2.402 GHz – 2.480GHz , 0dBm; NFC: 13.56 MHz.

## 1.7 FCC Statement

FCC Warning:

Any Changes or modifications not expressly approved by the party responsible for compliance 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.

RF warning for Portable device:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

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.