

FEITIAN

M60 Product Introduction

V1.0

Feitian Technologies Co., Ltd.

www.ftsafe.com/payment

Tower B, Huizhi Building, No.9 Xueqing Road, Haidian District, 100085, Beijing, China

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Chapter 1. M60 Product Introduction

1.1 Product Introduction

The M60 is a compact non-cash payment terminal with a 10.1-inch high anti-glare IPS color touch screen; the M60 is equipped with an integrated camera, high-capacity battery, NFC, and can meet the daily needs of all dynamic retail or hotel environments. The M60 provides a full range of communication functions, including Wi-Fi, Bluetooth, and 4G cellular networks, to meet all your customers' needs in one stop. This product is developed based on Android 11 operating system, software including android system and secure system, the function is simple and easy to use.

Both android system and secure system can be upgraded remotely or upgraded by OTG+U disk, lower the following cost of development and maintenance.

The features of this product:

■ Powerful

Supports multiple wireless connection methods, such as 4G, WiFi, Bluetooth and NFC.

Support 1* type C Port, USB2.0 and OTG.

■ Certified

CE, DGM, UN38.3, MSDS, GSMA, Google GMS SafetyNet compliance

■ Remote upgrading

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

1.2 Product Appearance

The M60 product appearance is shown as follows:



1.3 Specifications

1.3.1 Dimensions

Size: 245.8(L)mm x 164.6(W)mm x 13(H)mm

1.3.2 Screen

Use a 10.1-inch screen with a resolution of 1280*800 and Multi-point capacitive touch screen.

1.3.3 Communication Interface

■ RF Band

LTE-FDD: B2/4/5/7/66

WCDMA: B2/4/5

GSM850/PCS1900

■ Type-C USB port

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

■ WiFi

This terminal can be connected to 2.4G/5G network, support 802.11a/b/g/n/ac/ax.

■ Bluetooth 5.4/BLE

This terminal can be connected to smart phone or bluetooth headset through this interface.

■ GPS

This terminal supports GPS.

■ NFC

NFC technology is a contactless communication technology, which supports 13.56MHz, ISO/IEC 14443, ISO18092, Type A&B, Felica, Mifare card.

1.3.4 Battery and Power Source

Removable polymer lithium battery(3.8V/8000mAh, with charge protection and RTC battery.

1.3.5 Audio

■ Speaker

This terminal can play audio through this interface.

- Mic

This terminal can record through this interface.

1.3.6 Camera

- Rear/Front Camera

A rear camera: 8M, AF with led, Support 1D/2D

A front camera: 8M, AF, Support 1D/2D

1.3.7 SIM card

This terminal can insert into Nano card.

1.3.8 PSAM card

This terminal can insert into PSAM card.

1.3.9 TF-card

This terminal can insert into TF card.

1.3.10 Contactless IC Card Reader

Support contactless IC card (ISO/IEC 14443, ISO18092, Type A&B, Felica, Mifare card, working frequency 13.56MHz)

1.3.11 Adapter

Input: 100-240V AC, 50/60Hz 0.35A; Output: 5.0V DC/2.0A

1.3.12 Environmental

Operating Temperature: -10°C ~ 50°C (14°F~122°F)

Storage Temperature: -20°C ~70°C (-4°F~158°F)

Relative Humidity: 5%~96% (Non-Condensing)

1.3.13 Features

- NFC
- High scanning speed
- Support redevelopment

1.4 Certifications

- CE
- DGM
- UN38.3
- MSDS
- GSMA
- Google GMS SafetyNet Compliance
- FCC

1.5 Use of the terminal

Step 1. Charging the terminal

- Plug the USB charging cable into the Type-C port on the side of the terminal.
- Connect the other end of the USB charging cable to a powered USB outlet.
- During charging, a charging symbol appears above the battery symbol in the upper right corner of the terminal.
- When not in use, the battery typically charges in 5 hours.
- The battery status is shown on the display when the terminal is turned on.
- When using the terminal for the first time, charge the battery for at least 1 hour. It is recommended to charge the battery to at least 40% every 4 months.

Step 2. Installing modules

The SAM/SIM connector is located in the card slot on the side of the terminal. Open the rubber plug and insert the SAM/SIM into the slot. SAM, SAM, TF are identified by engraving on the shell..

Step 3. Power on the terminal

- Make sure the terminal battery is charged
- Press button for about 2 seconds, the system will start.
- If required, remove the protective film from the display.

1.6 Troubleshooting

In the unlikely event you experience issues with this product, please follow the guidelines below. If this does not resolve the issue, please contact your solution provider for further assistance.

1.6.1 No display

- Charge the terminal using the supplied USB cable.
- Make sure the USB socket being used is powered..

1.6.2 Poor battery life

- Make sure there is power during charging.
- Check that the battery level indicator is at maximum
- Charge for 2 hours to ensure full charge when not in use.

1.6.3 Cannot read Cards

- Ensure the contactless card has been placed at a distance of 0 to 4 cm from the terminal.
- Test with another card of the same type.

1.7 Frequency bands and power

- Maximum radio frequency power transmitted in the frequency bands in which this equipment operates is below the limit values specified in the corresponding Harmonized Standards.

- The frequency bands and power limits applicable to this equipment are: Bluetooth: 2.4 GHz - 2.4835 GHz, 5180~5825 MHz, Bluetooth5.0/BLE; NFC: 13.56 MHz.

1.8 CE Statement

At the time this product was tested and recorded the maximum SAR value was 1.69 W / kg for the body . The terminal complies with RF specifications when terminal used at a distance of 5mm from your body .

1.9 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 terminal with supplied or manufacturer-certified accessories.
- To avoid the potential danger of electric shock, do not use in humid environments or during thunderstorms.
- Do not use in proximity of potentially flammable gases or substances.
- Ensure cables used do not cause a trip hazard or risk the terminal being dropped on to a hard surface.
- Do not expose to excessive heat or cold. Only operate between -10 °C and 50 °C.
- Before cleaning, disconnect the power socket. Only dry or damp soft cloth can be used.
- Clean all spillages quickly.
- This terminal 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.
- M60 product will not be held liable for any damage resulting from user operation that does not comply with the above-stated guidance.
- If the terminal 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.

1.10 Warning

If replace the battery pack with an incorrect model, it may cause explosion.

FCC Statement

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.

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 interfer-ence 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.

SAR statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. The portable device is designed to meet the requirements for exposure to radio waves established by the FCC. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body.