

SUNMI

# SUNMI IoT For Business

Payment  
Devices and Solutions



# Altruism

SUNMI's Core Value

## Philosophy

**Value our employees by treating them with respect, recognition and understanding.**

**Contribute to the development of society.**

## Mission

**To build a next-gen commercial IoT platform with an altruistic mind and eventually achieve business 4.0.**

## Vision

**To become a top-10 IoT company in the world.**

**SUNMI, with "altruism" as its core value, is an IoT company that comprehensively leads global innovation in intelligent commercial hardware.**

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## About SUNMI

SUNMI is committed to providing a wide range of excellent intelligent IoT hardware and digital solutions that combine software and hardware for the commercial field, thus building a business world where things are interconnected and finally realizing Business 4.0. By December 31, 2020, SUNMI App Store has become a top App Store for business with more than 28,000 partners, over 13,000 Apps and more than 100 subdivided industries covered, and these Apps have been widely used in food delivery, restaurant, retail, tax control, checkout and other scenarios. SUNMI's IoT products and solutions have been used in more than 200 countries and regions, empowering more than 3 million merchants around the world.

## Investors

SUNMI has successively obtained strategic investments from Ant Group, Xiaomi Technology, Meituan, Lightspeed China Partners, ABC International and SCGC, and has an estimated value at over 1 billion USD and a high growth rate.





# SUNMI IoT for Business Payment Devices and Solutions

Emerging payment methods nowadays call for POS devices which not only can accept payments made with bank cards, but also QR codes and e-wallets. To answer this, SUNMI provides you devices that can accept multichannel payments, and are also applicable in coupon redemption, online order taking and loyalty programs, thus making your day-to-day business more efficient.

## P Series

Handheld Payment POS

Being versatile, SUNMI P Series can be used on a checkout counter and in your hand to accept payments made with magnetic stripe cards, IC cards, NFC cards or QR codes.



Swipe  
to pay



NFC  
QuickPass



Mobile  
Payment



Coupon  
Redemption



Food  
Delivery



Loyalty  
Program

# SUNMI P2 PRO Payment POS

Bezel-less, more powerful.



## Ergonomics

Its 5.99" bezel-less screen and the ultra-slim (thinnest part 17.5mm) body all reflect SUNMI's never-ending pursuit of ergonomics.

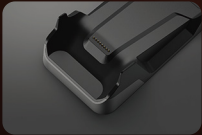
## High Performance

Equipped with a high performance processor and a 2GB of RAM, P2 PRO features quick responses and smooth switches among Apps.

## Convenient Data Capture

To read product barcodes, P2 PRO comes with a 1D barcode scan engine, thus to make it applicable in all retail scenarios.

## Optional Accessory



### SUNMI P2 PRO Cradle

A charging cradle & USB expander.



## SUNMI P2 PRO Tech Specs

### Model Approved

T6920

### OS

Android 7.1  
SUNMI OS

### Processor

Cortex-A53 quad-core,  
1.4GHz

### Memory

2GB RAM + 16GB ROM

### Display

5.99" HD+, 1440\*720  
Capacitive multi-touch

### Rear Camera

5MP AF + Flashlight  
1D/2D barcode reading

### Printer

58mm built-in thermal printer  
Print speed: 70mm/s  
Paper roll: φ40mm

### Magnetic Stripe Card

1/2/3 track card  
Bidirectional reading  
ISO 7810/7811 compliant

### IC Card

Smart IC card/logic encryption contact card  
ISO 7816/EMV/PBOC 3.0 compliant  
5V/3V/1.8V

### NFC Card Reader

Type A & B card, Mifare card, FeliCa card.  
ISO/IEC 14443, qPBOC3.0, EMV, Paypass,  
Paywave, FeliCa ISO18092 compliant.

### Security

ANSI X9.8/ISO 9564, ANSI X9.9/ISO 16609, ANSI X 9.24-1, ANSI X9.24-3, Master Key/Session Key, DUKPT, and ANSI X9 TR-31 compliant.  
3DES, AES, RSA, SHA-256, SM2, SM3, SM4.

### Cryptographic Standards (China)

SM2, SM3, SM4

### Scanner

1D barcode scan engine (optional)

### Speaker

1\* 1W

### PSAM Card Slot

2\* MINI SAM

### SIM Card Slot

2\* NANO SIM

### Network

2G & 3G & 4G

### Wi-Fi

2.4GHz/5GHz  
IEEE 802.11a / b / g / n

### Bluetooth

Bluetooth 2.1/3.0/4.2  
and BLE

### GPS

AGPS and GPS

### Sensor

Gravity sensor

### Buttons

1\* Power button  
2\* Function button

### Port

1\* Type-C  
Supports OTG

### Battery

Nonremovable LiPo battery  
7.6V/2580mAh

### Power Adapter

Input: AC100-240V  
Output: 5V/2A

### Dimensions (L\*W\*H)

224.9\*84.2\*17.5mm

### Weight

430g

### Environment

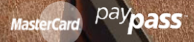
Operating temp.: 0°C~50°C  
Storage temp.: -20°C~60°C

### Cradle (Optional)

A charging cradle supporting  
USB OTG and Ethernet  
(optional)

# SUNMI P2 Payment POS

Cost-effective, high performance.



## High-speed Printing

With an inbuilt 58mm Seiko thermal printer, P2 delivers excellent printing quality smoothly and swiftly.

## Front and Rear Cameras

P2 is equipped with an UnionPay certified front camera for facial recognition payment and a rear camera for QR code payment.

## Removable Battery

The removable LiPo battery offers a higher flexibility for multi-shift operations.

## Optional Accessory



### SUNMI P2 Cradle

A charging cradles supporting USB OTG and Ethernet (optional).

## SUNMI P2 Tech Specs

### Model Approved

T6900

### OS

Android 7.1  
SUNMI OS

### Processor

Cortex-A53 quad-core,  
1.5GHz

### Memory

1GB RAM + 8GB ROM

### Display

5.5" HD+, 1440\*720  
Capacitive multi-touch

### Front Camera (Optional)

0.3MP FF

### Rear Camera

5MP AF + Flashlight  
1D / 2D barcode reading

### Printer

Built-in 58mm thermal printer  
Print speed: 70mm/s  
Paper roll: φ 40mm

### Magnetic Stripe Card

1/2/3 track card;  
Bidirectional reading;  
ISO 7810/7811 compliant

### IC Card

Smart IC card/logic encryption contact card;  
ISO 7816/EMV/ PBOC 3.0 compliant;  
5V/3V/1.8V

### NFC Card Reader

Type A & B card, Mifare card, and FeliCa card;  
ISO/IEC 14443, qPBOC3.0, EMV, Paypass, Paywave, FeliCa  
ISO18092 compliant.

### Security

NSI X9.8/ISO 9564, ANSI X9.9/ISO 16609, ANSI X9.24-1, ANSI X9.24-3, Master Key/Session Key, DUKPT, and ANSI X9 TR-31 compliant.  
3DES, AES, RSA, SHA-256, SM2, SM3, SM4.

### Cryptographic Standards (China)

SM2, SM3, SM4

### Fingerprint (Optional)

FAP10, STQC, FBI

### Speaker

1\* 1W

### PSAM Card Slot

1\* MINI SAM

### SIM Card Slot

2\* NANO SIM

### Network

2G & 3G & 4G

### Wi-Fi

2.4GHz/5GHz  
IEEE 802.11a/b/g/n

### Bluetooth

Bluetooth 2.1/3.0/4.2  
and BLE

### GPS

AGPS and GPS

### Buttons

1\* Power button  
1\* Function button

### MIC

1\* MIC

### Port

1\* Type-C  
Supports OTG

### Battery

Removable LiPo battery  
7.6V/2540mAh

### Power Adapter

Input: AC100-240V  
Output: 5V/2A

### Dimensions (L\*W\*H)

222\*81.6\*17.6mm

### Weight

400g

### Environment

Operating temp: 0°C~50°C  
Storage temp: -20°C~60°C

### Cradle (Optional)

A charging cradle supporting  
USB OTG and Ethernet  
(optional)

# SUNMI P2 LITE Payment POS



Mini size, all-round protected.



## Small but Rugged

Pocket-sized, 256g net weight ;  
Double-shot molding adapted, 1m drop spec.

## Powerful and Smooth

With a powerful processor and an optional 2GB RAM, multiple Apps can run simultaneously and smoothly.

## Barcode Recognition

Equipped with a 1D barcode engine, P2 LITE can read product barcodes and complete checkout anytime and anywhere.

## Optional Accessory



**SUNMI P2 LITE  
One-slot Charging Base**  
Specially designed for P2 LITE.



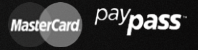
## SUNMI P2 LITE Tech Specs

<b>Model Approved</b> T6800	<b>OS</b> Android 7.1 SUNMI OS	<b>Processor</b> Cortex-A53 quad-core, 1.4GHz	<b>Memory</b> 2GB RAM + 16GB ROM	<b>Display</b> 5.0" HD, 1280*720 Capacitive multi-touch
<b>Rear Camera</b> SMP AF + Flashlight 1D / 2D barcode reading	<b>Magnetic Stripe Card</b> 1/2/3 track card Bidirectional reading ISO 7810/7811 compliant	<b>IC Card</b> Smart IC card/logic ncryption contact card; ISO 7816/EMV/ PBOC 3.0 compliant; 5V/3V/1.8V	<b>NFC Card Reader</b> Type A & B card, Mifare card, and FeliCa card; ISO/IEC 14443, qPBOC3.0, EMV, Paypass, Paywave, FeliCa ISO18092 compliant.	
<b>Security</b> ANSI X9.8/ISO 9564, ANSI X9.9/ISO16609, ANSI X9.24-1, ANSI X9.24-3, Master Key/Session Key, DUKPT, and ANSI X9 TR-31 compliant. 3DES, AES, RSA, SHA-256, SM2, SM3, SM4.		<b>Cryptographic Standards (China)</b> SM2, SM3, SM4	<b>Scanner</b> 1D barcode scan engine	<b>Speaker</b> 1* 1W
<b>PSAM Card Slot</b> 1* MINI SAM	<b>SIM Card Slot</b> 1* MINI SIM	<b>Network</b> 2G & 3G & 4G	<b>Wi-Fi</b> 2.4GHz/5GHz IEEE 802.11a/b/g/n	<b>Bluetooth</b> Bluetooth 2.1/3.0/4.2 and BLE
<b>GPS</b> AGPS and GPS	<b>Sensor</b> Gravity sensor	<b>Buttons</b> 1* Power button 2* Function button 1* Home button	<b>Port</b> 1* Type-C Supports OTG	<b>Battery</b> Removable LiPo battery 3.8V/3000mAh
<b>Power Adapter</b> Input: AC100-240V Output: 5V/1A	<b>Dimensions (L*W*H)</b> 157.8*75*22.4mm	<b>Weight</b> 256g	<b>Environment</b> Operating temp.: 0°C ~ 50°C Storage temp.: -20°C ~ 60°C	<b>Base (Optional)</b> Charging base

# SUNMI P2 MINI Payment POS New



Ultra-slim body contains all-in-one mobile payment.



## P2 MINI Scanner / P2 MINI Standard

### Multiple Payment Methods

P2 MINI supports payment of QR code, magnetic stripe card, IC card, and NFC, making payment in various scenes a breeze.

### Improved Performance With Low Consumption

Built-in quad-core 1.8GHz processor, P2 MINI brings powerful performance and lower consumption. Using SUNMI OS based on Android 9.0 GO, it brings a smoother experience.

### The Slim Body Design Brings a Light Grip

With thinnest part is only 15mm, P2 MINI brings a comfortable one-handed grip and survives the 1.2-meter drop, continuing the durable features.

### Professional 2D Scan Engines

1D/2D barcodes can be recognized even if they are scratched, folded or stained. Three scan engines are available(Honeywell/Newland).

### Optional Accessories

#### 4-slot Battery Charger\*

Support charging up to 4 POS simultaneously and intelligent battery management

#### Fingerprint Case\*

The payment POS with fingerprint case integrates fingerprint recognition biometric solution.

\*These accessories will be launched to the market. Please consult sales reps for details.



## P2 MINI Standard Configurations

<b>Model Approved</b> T5810	<b>Processor</b> Cortex-A53 quad-core 1.8GHz	<b>OS</b> Android 9.0 Go SUNMI OS	<b>Memory</b> 8GB ROM+1GB RAM	<b>Display</b> 5" HD, 1280*720, IPS Capacitive multi-points
<b>Magcard Support</b> Support 1/2/3 track, Support Bi-direction, complies with ISO7810/7811 standards	<b>IC-card Support</b> Support smart IC card, complies with IS7816/EMV/PBOC 3.0 standards	<b>Rear NFC</b> PBOC 3.0, ISO/ICE 14443 TypeA&B, Mifare card, Paypass, Paywave	<b>PSAM Card Slot</b> PSAM Card slot, complies with ISO7816 standard	
<b>Security</b> ANSI X9.8/ISO9564, ANSI X9.9/ISO08731, Master Key/Session Key, Support 3DES, RSA, SHA-256, SM2, SM3, SM4, etc.	<b>Camera</b> Rear camera, 5.0MP, Flash, AF, Support 1D/2D barcode scan	<b>Battery</b> Built-in LiPo battery, 3.8V/2500mAh	<b>Communication</b> 2G, 3G, 4G, 3.5mm Audio Jack	
<b>Network</b> 2G & 3G & 4G	<b>Wi-Fi</b> 2.4G/5GHz, IEEE 802.11ac/a/b/g/n support	<b>Bluetooth</b> Bluetooth 5.0 BLE	<b>GPS</b> GPS and AGPS	<b>Storage</b> Micro SD card slot, up to 32GB
<b>Buttons</b> 1* Power button, 2* Function button (scanner key)	<b>Speaker</b> 1W	<b>SIM Card Slot</b> Dual SIM Card slot, Support 1.8V/3.0V	<b>Port</b> 1 Type-C USB 2.0 HS, supports OTG	<b>Dimensions (L*W*H)</b> 144x74x15mm
<b>Weight</b> 200g	<b>Environment</b> Operating temp.: 0°C ~ 45°C Storage temp.: -20°C ~ 60°C			

## P2 MINI Optional Configurations

<b>Memory</b> 2+16GB	<b>Front Camera</b> 0.3 MP fixed focus, support 1D/2D barcode payment	<b>Phone Call</b> Support phone function	<b>Others</b> G-sensor Pogo Pin
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# Better Together

SUNMI provides integrated IoT solutions to make your business digital, interconnected and smart. Find what will further grow your business or even generate more business opportunities.

## Printers

Automatically take online orders without relying on a cellphone or computer.



### SUNMI 58mm Cloud Printer

Automatic online order taking and printing.



### SUNMI 80mm Kitchen Cloud Printer

Automatic online order taking and printing.  
A better choice for restaurant kitchens.

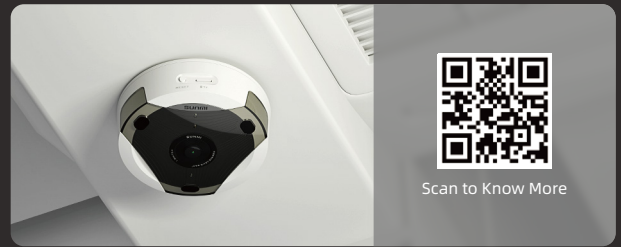
## Video Analytics

Improve your store operations by knowing more - foot traffic, customer profiles and every transaction.



### SUNMI Face Sense Camera

Know your customers and foot traffic in real time.



### SUNMI Store Sense Camera

Monitor your whole store with one camera.

## Desktop POS

Manage your transactions with only one small-footprint desktop POS terminal.



### SUNMI T2s Desktop POS

Pursuit of excellence, performance breakthrough.



### SUNMI T2 MINI Desktop POS

Small size, complete functions.



# SUNMI Software Ecosystem



## SUNMI OS

SUNMI OS is an operating system specially designed for smart business. It is deeply optimized on the basis of Android system and customized for business in terms of operating experience and scenario design. Based on SUNMI OS, we provide a complete set of intelligent hardware, PaaS and necessary services for store operations. Together with software vendors, we provide merchants with business solutions integrating hardware and software.



## SUNMI Partners Platform

A management platform for SUNMI partners to conveniently complete centralized device management.

**28,000+**  
Partners

**200+**  
Countries and Regions

Device MGT

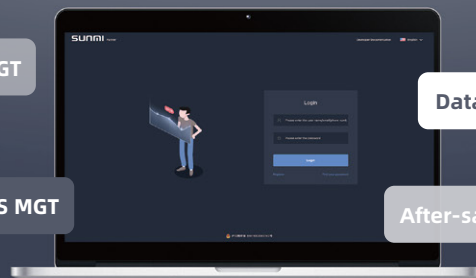
SBS Service Purchase & MGT

App MGT

Data Analysis

OS MGT

After-sales Service



For more information, please visit: [partner.sunmi.com/en](http://partner.sunmi.com/en).



## SUNMI App Store

A top app store for business.

**13,000+**  
Apps

**20,000+**  
Developers

**116+**  
Subdivided Industries

**60 Million+**  
Downloads

### Your Own App Store

Whitelist/blacklist apps.  
Control app installation.

### Flexible Deployment

Developers can make less risky staged releases.

### App Security & Protection

The cloud will run security checks on APK files and countersign, and a payment POS terminal will verify the signature before installation.

Data as of December 31, 2020

# TMS (Terminal Management System)

## TMS

To meet clients' needs in private deployment, SUNMI has launched a customized TMS to secure data, improve management efficiency and reduce operating costs.



### Private Deployment

- Provide more deployment methods (single server and cluster incl.) for clients.
- Secure clients' data through data backup and the data recovery service.



### Centralized Management

- Merchants' data and POS data can be backed up to the cloud.
- Intelligent devices of multiple brands can be managed through a unified SUNMI interface.
- The App Market in the TMS, which can be managed by clients independently, is compatible with different app signature mechanisms.



### Branch Management

- Capable of tiered management, which caters to the common needs in branch management of banks, agencies and third-party payment companies.
- The standardized framework enables developers easier access, thus to facilitate our win-win cooperation.



### Compliant Cloud Backup

- The data, configurations, and apps on a deployed device can be backed up to a new device with just one click, thus improving operational and maintenance efficiency as well as reducing labor costs.

For more information, please visit: [tms.sunmi.com](https://tms.sunmi.com).

# SUNMI Care

SUNMI offers an industry-leading service experience for all the customers around the world by its global service network coverage, 24/7 instant response service desk support and various value-added SUNMI Care Kit.



## Global Service Network

6+

Regional  
SUNMI Care Center

40+

Country  
Level Repair Center

## SUNMI Care Kit



Standard  
Warranty



Extended  
Warranty



Customized  
Services

## 24/7 Service Desk Support



Technical Support  
[support.sunmi.com](http://support.sunmi.com)



Partner Platform  
[partner.sunmi.com](http://partner.sunmi.com)



Spare Parts  
[support.sunmi.com](http://support.sunmi.com)



Email Support  
[sunmi-service@sunmi.com](mailto:sunmi-service@sunmi.com)

# Grow a stronger business with SUNMI and our partners.



One of the first shareholding commercial banks of China.

"Customers now can pay the way they want - swipe a card or scan to pay. This helps us a lot for we don't have to give back change or worry about receiving counterfeit cash."

— Owner of a boutique restaurant

#### SUNMI Products Used

SUNMI P Series Payment POS

#### Value

More options to accept payments; improved store operations.

#### Applications

SUNMI devices have been provided to merchants to help them accept payments made with bank cards, Alipay and WeChat Pay.



One of the biggest importer and dealer of gasoline, fuel, diesel and asphalt in Central America.

"An operator comes directly to refuel my car once I parked. I can sit on my seat and get my car refueled, swipe my card to pay and have my reward points. It is quite convenient."

— A customer of UNO gas station

#### SUNMI Products Used

SUNMI P Series Payment POS

#### Value

Improved throughput at peak hours and shortened wait times.

#### Applications

Swipe to pay, reward points, and receipt printing.



We also have been working with Bank of Gansu, China Merchants Bank, Bank of China, Huishang Bank, Hong Leong Bank in Malaysia, Bank Central Asia in Indonesia, Delobank and Gazprombank in Russia and Bank BelVEB in the Republic of Belarus to provide global merchants various payment solutions.



The biggest Taxi company in Vietnam.

"The competition in the mobility industry is pretty fierce, and keep pace with the changing world is the only way for us to have a long-term development. Now customers have a better experience for they can pay the way they want and quickly get receipts. SUNMI helps us a lot in this aspect."

— A taxi fleet manager

#### SUNMI Products Used

SUNMI P Series Payment POS

#### Value

Quick payment acceptance; enhanced service quality and customer stickiness.

#### Applications

Multichannel payment acceptance; quick receipt printing.



Xiaomi Store, Avenue des Champs-Élysées, Paris.

"SUNMI P2 LITE is small and portable, and can be easily put in a coat pocket. I can now check product information by scanning it without having to go anywhere. It's really a handy tool."

— An associate, Xiaomi Store

#### SUNMI Product Used

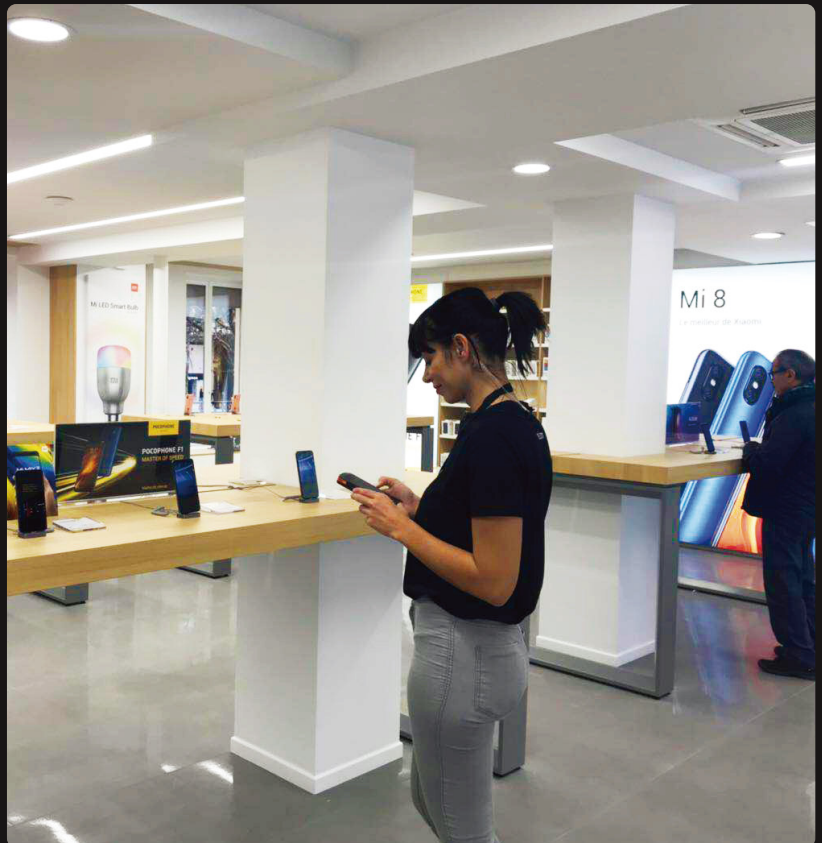
SUNMI P2 LITE

#### Value

Store associates now can search for product information by scanning product barcodes, order for customers and accept payments in a row.

#### Applications

Barcode-based product searching



# Empower offline businesses with co-developed digital solutions.



Bank card payment and receipt printing, SUNMI P Series, a company canteen, South Africa.



Top up, aggregate payment (food ordering and betting), cash in and cash out, SUNMI P Series, a mobile payment company, Nigeria.



Swipe to pay and receipt printing, SUNMI P2, a restaurant in Moscow, Russia.



Bank card payment and receipt printing, SUNMI P2 LITE and P1, a Xiaomi Store in China.



Mobile ticketing and checkout, SUNMI P Series, Vietjet Air, Vietnam.



Book lookup and swipe to pay, SUNMI P Series, a bookstore in Indonesia.



Multichannel payments and receipt printing, SUNMI P Series, a McDonald's, Malaysia.



Mobile checkout, SUNMI P2 PRO provided by Macau Pass to a meat and produce market in China.

\*SUNMI P Series products have also been used in Burger King and Starbucks in Southeast Asia to bring safe and convenient customer experience.

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# SUNMI Payment POS Terminals

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SUNMI P2 PRO




SUNMI P2



SUNMI P2 LITE




SUNMI P2 MINI




SUNMI IoT For Business  
Mobile  
Devices and Solutions

This image shows several SUNMI mobile devices, including smartphones and handheld scanners, arranged on a dark surface with orange accents.




SUNMI IoT For Business  
Payment  
Devices and Solutions

This image displays various SUNMI payment devices, such as handheld scanners and smartphones, on a yellow and orange surface.



SUNMI IoT For Business  
Desktop  
Devices and Solutions

This image features SUNMI desktop devices, including monitors and scanners, on a dark desk with orange lighting.



SUNMI IoT For Business  
Kiosk  
Devices and Solutions

This image shows two SUNMI kiosk devices, one smaller and one larger, standing on a white base.

**Shanghai Sunmi Technology Co., Ltd.**  
**F6, Building 7, No. 388 Songhu Rd, Shanghai, China.**  
**Official Site: [www.sunmi.com/en](http://www.sunmi.com/en)**

The information in this manual is subject to change without notice. We make a continual effort to improve our manuals in order to ensure they are as complete, accurate and helpful as possible.

Some data in this manual is from SUNMI Laboratory, the actual data shall take precedence in case of any discrepancy.

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