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**CASTLES TECHNOLOGY**  
**CASTLES TECHNOLOGY S1MINI2001 POS Terminal**



## Specifications

- Product: CASTLES TECHNOLOGY SATURN1000 POS Terminal
- Model: S1MINI2
- Version: 1.0
- Manufacturer: Castles Technology Co., Ltd.
- Address: 6F, No. 207-5, Sec. 3, Beixin Rd., Xindian District, New Taipei City 23143, Taiwan R.O.C.
- Website: [www.castech.com.tw](http://www.castech.com.tw)

## Regulatory Instructions

Before using the terminal, please follow these regulatory instructions:

- Check if the terminal has been disassembled, modified, or encountered any abnormal situations. Do not use if any of these conditions are met.
- Avoid strong electromagnetic waves from sources like microwave ovens, magnets, high-voltage wires, etc.
- Avoid condensation by allowing water droplets to evaporate before use if the unit moves from a cold to a warm place.
- Avoid static electricity and direct sunlight exposure. Handle the unit carefully and do not subject it to impact or heavy objects.

- Avoid attaching dust, oil, or scratching the power terminal.

## **Hardware Setup**

### **Parts of the Terminal**

Front:

1. Camera
2. Contactless Card Landing Zone
3. LCD Display
4. Smart Card Reader

Rear:

1. Speaker
2. Anti-Theft Lock
3. Charger Pins
4. Back Cover
5. Serial Number Label
6. SAM Card Slot
7. Product Label
8. GSM Micro SIM Card Slot

- Right side: Power Button, Smart Card Reader;
- Bottom side: Rechargeable Battery; Upper side: USB Type-C

### **Insert Battery**

1. Step 1: Push the back cover upward to remove it.
2. Step 2: Insert the battery into the compartment with the cut corners matching the design. Ensure the battery's specification information faces outside.
3. Step 3: Reverse step 1 to install the back cover. Make sure the battery is installed before powering on the terminal.

## **Confidential**

- Version 1.0
- Aug. 2024
- CRT-S1-27-02-V1.0-CE-FCC-IC-UL-CB

Castles Technology Co., Ltd. 6F, No. 207-5, Sec. 3, Beixin Rd., Xindian District, New Taipei City 23143, Taiwan R.O.C.

- <http://www.castech.com.tw>

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## Revision History

<b><i>Version</i></b>	<b><i>Date</i></b>	<b><i>Descriptions</i></b>	<b><i>Author</i></b>
1.0	2024.08.26	Initial creation.	Yao

## Introduction

- This document provides a guideline for operating and configuring the Castles SATURN1000 terminal.
- The scope of this document includes setting up the terminal, basic operation, application lifecycle, and some advanced features.

## Regulatory instructions for usage

- Before using the terminal, please check if it has been disassembled, modified, or happened the abnormal situation. If yes, please do not continue to use.
- Please stay away from strong electromagnetic waves.

(Example) Microwave ovens, magnets, shoplifting prevention devices, high-voltage wires, automatic doors, communication antennas, etc.

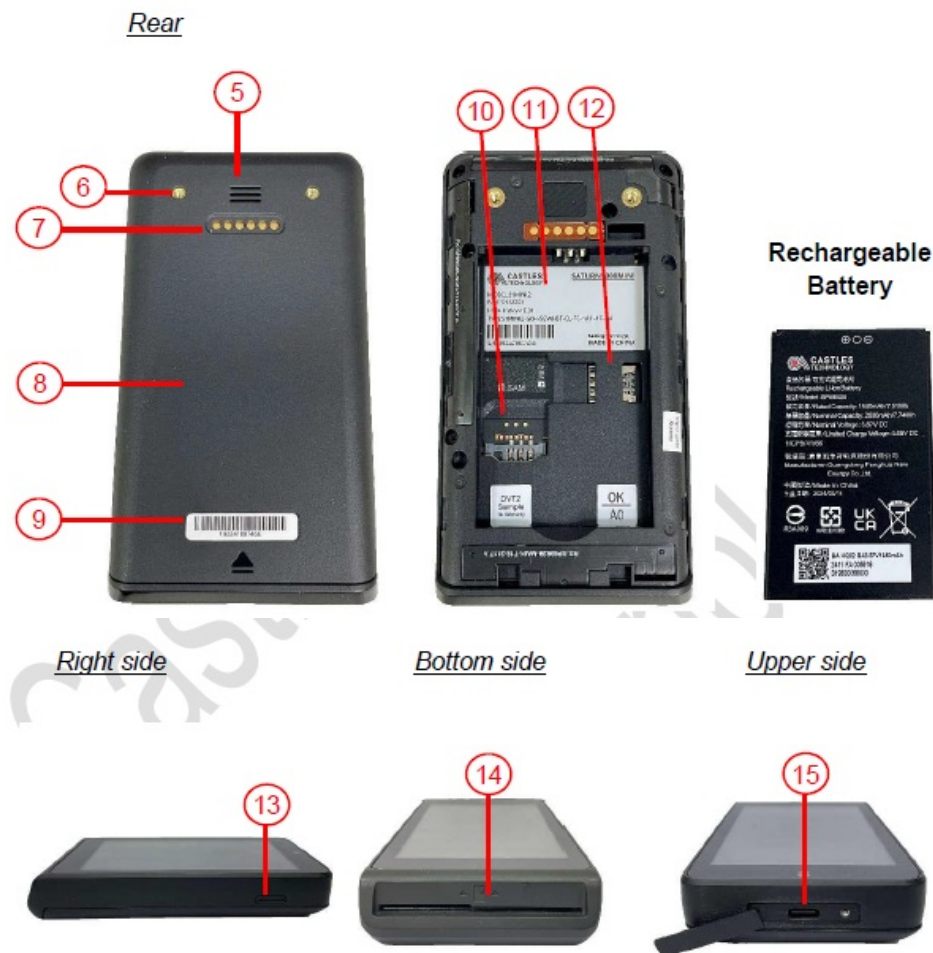
- Condensation can occur when moving from a cold place to a warm place. If condensation occurs, do not use the unit until the connected water droplets evaporate.
- Static electricity may occur in some places (such as when you are using a carpet).
- Please do not leave it in the sun for a long time.
- Please operate the unit carefully as it is a precision instrument. Do not apply impact, drop, or heavy objects on top of the unit.
- Do not attach dust, oil, etc. to a part of the power terminal. Also, please do not scratch.

## Hardware Setup

### Parts of the Terminal

Front





1. Camera
2. Contactless Card Landing Zone
3. LCD Display
4. Smart Card Reader
5. Speaker
6. Anti-Theft Lock
7. Charger Pins
8. Back Cover
9. Serial Number Label
10. SAM Card Slot
11. Product Label
12. GSM Micro SIM Card Slot
13. Power Button
14. Smart Card Reader
15. USB Type-C

## Insert Battery

- Step 1: Push the back cover upward to remove it.
- Step 2: Insert the battery into the compartment. Make sure the cut corners on the upper side of the battery match the compartment design. The battery with the specification information is facing outside.
- Step 3: Reverse the operation of step 1 to install the back cover.

**Note:** Please make sure the battery is installed before powering on the terminal.



## Insert the SAM Card

- Step 1: Remove the back cover.
- Step 2: Insert SAM card into the slot. Gold contact is facing down and the cut corner is on left side.
- Step 3: Reverse the operation of step 1 to install the back cover.



## Insert a GSM Micro SIM Card

- Step 1: Remove the back cover.
- Step 2: Insert GSM Micro SIM card into the slot. Gold contact is facing down and the cut corner is on right bottom side.
- Step 3: Reverse the operation of step 1 to install the battery cover.



## Appendix

### FCC

#### Federal Communication Commission Interference Statement

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.

This equipment has been tested and found to comply with the limits for a Class B digital device, under 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 by 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 of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to 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.

**FCC Caution:**

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**FCC Radiation Exposure Statement:**

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the United States.

During SAR testing, this device was set to transmit at its highest certified power level in all tested frequency bands, and placed in positions that simulate RF exposure in usage against the head with no separation, and near the body with a separation of 10 mm.

Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value.

The exposure standard for wireless devices employing a unit of measurement is known as the Specific Absorption Rate, or SAR.

The SAR limit set by the FCC is 1.6W/kg. The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines.

**Note:** The country code selection is for non-US models only and is not available to all US models.

Per FCC regulation, all WIF products marketed in the US must be fixed to US operation channels only.

## IC

- **Industry Canada statement**

This device complies with ISED's licence-exempt RSSs. 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.

- **ISED Radiation Exposure Statement:**

This EUT is compliance with SAR for general population/uncontrolled exposure limits in IC RSS-102 and had been tested in accordance with the measurement methods.

This equipment should be installed and operated with minimum distance 10mm between the radiator and your body. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

- **Warning:**

The device is restricted to indoor use only when operating in the 5150 to 5250 MHz frequency range.

## UL / IEC 62368-1

- Higher Over-Temperature Protection (Charging): 50 °C  $\pm$ 3 °C

- Lower Over-Temperature Protection (Charging): 0 °C  $\pm$ 3 °C

- **Warning:** The power cord shall be connected to a socket outlet with an earthing connection.

- **Warning:**

Risk of explosion if the battery is replaced with an incorrect type. Dispose of the expended battery according to local disposal regulations.

- **Warning:**

This product is intended to be supplied by a Listed Power Adapter "L.P.S." (Or "Limited Power Source") and is rated at 5Vdc, 2A min., Tma = 40 degrees C.

- **Warning:**

The COM port is not used for connection to the telecommunication network.

## Frequently Asked Questions (FAQ)

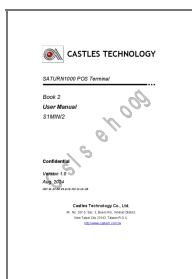
**Q: Can I use the terminal in areas with strong electromagnetic interference?**

A: It is recommended to stay away from strong electromagnetic waves to avoid interference with the terminal's operation.

### Q: How do I clean the terminal?

A: Use a soft cloth to gently wipe the terminal. Avoid using liquids or harsh chemicals that may damage the device.

## Documents / Resources



[CASTLES TECHNOLOGY S1MINI2001 POS Terminal \[pdf\]](#) User Manual  
WIYS1MINI2001, s1mini2001, S1MINI2001 POS Terminal, S1MINI2001,  
POS Terminal, Terminal

## References

- User Manual

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◆ CASTLES TECHNOLOGY, POS Terminal, s1mini2001, S1MINI2001 POS Terminal, Terminal, WIYS1MINI2001

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