



CASTLES TECHNOLOGY

SATURN1000 POS Terminal

Book 2

User Manual

S1E2-UPT

joy ...

Confidential

Version 1.0

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CRT-S1-30-02-V1.0

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Castles

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Revision History

<i>Version</i>	<i>Date</i>	<i>Descriptions</i>	<i>Author</i>
1.0	2024.07.31	Initial creation.	Yao

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1. Introduction

This document provides a guideline on operating and configuring Castles S1E2UPT terminal. The scope of this document includes setting up the terminal, basic operation, application life cycle, and some advance features.

Regulatory instruction of usage

- Before using the terminal, please check has it been disassembled, modified, or showed abnormal situation. If yes, please do not 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 where you use 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.

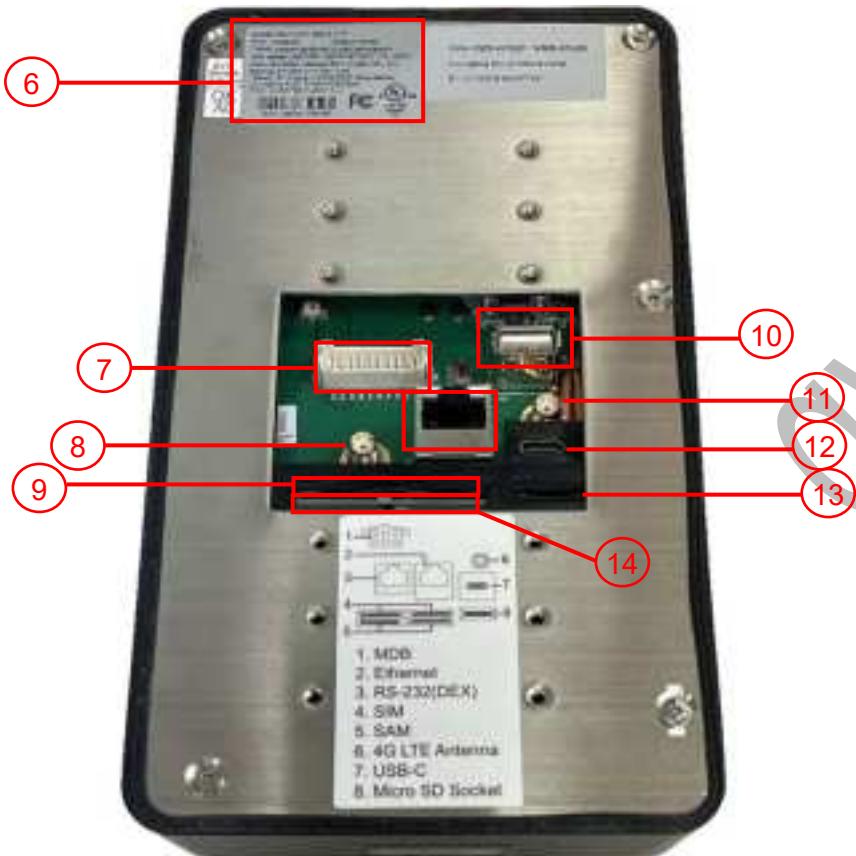
2. Hardware Setup

2.1. Parts of the Terminal



1. Front camera (500 MP)
2. Contactless Card Landing Zone
3. LCD Display (5")
4. Magnetic Stripe Reader
5. Smart Card Reader

Rear

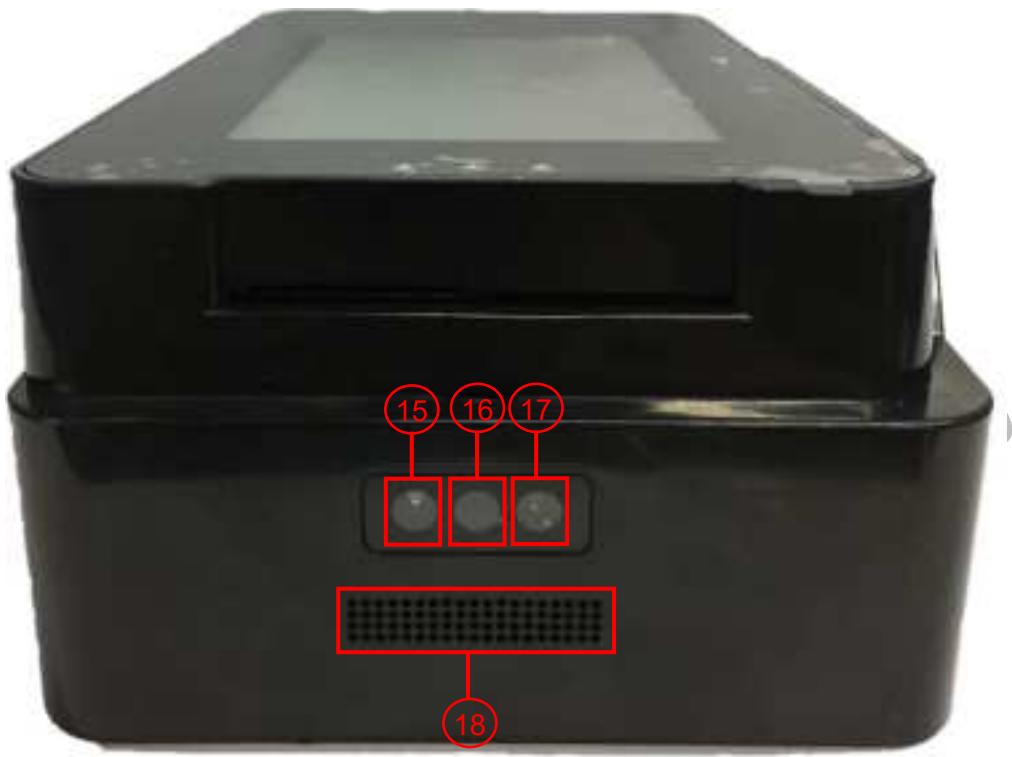


SATURN1000E2 UPT

- 6. Product Label
- 7. MDB Port
- 8. 4G LTE Antenna
- 9. SIM card slots
- 10. USB type A slot (5Vdc, 0.5A max.)
- 11. 4G LTE Antenna
- 12. USB type C Slot (5Vdc, 0.5A max.)
- 13. Micro SD card slot
- 14. SAM card slots

Note: USB Type A Slot + USB Type C Slot: 0.5A max.

Bottom



15. Aiming LED
16. Barcode scanner
17. LED light
18. Speaker

Left side



Right side

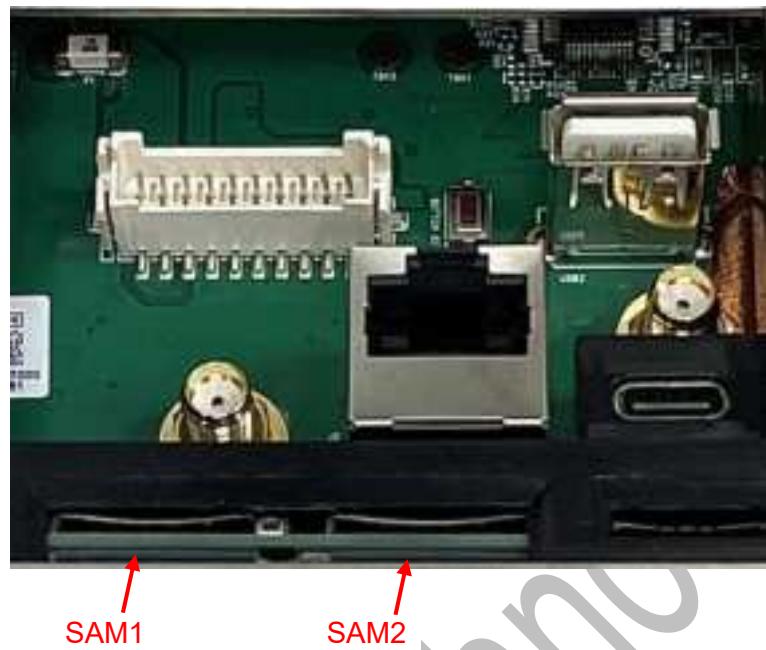


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- 19. Microphone**
20. Headphone Jack

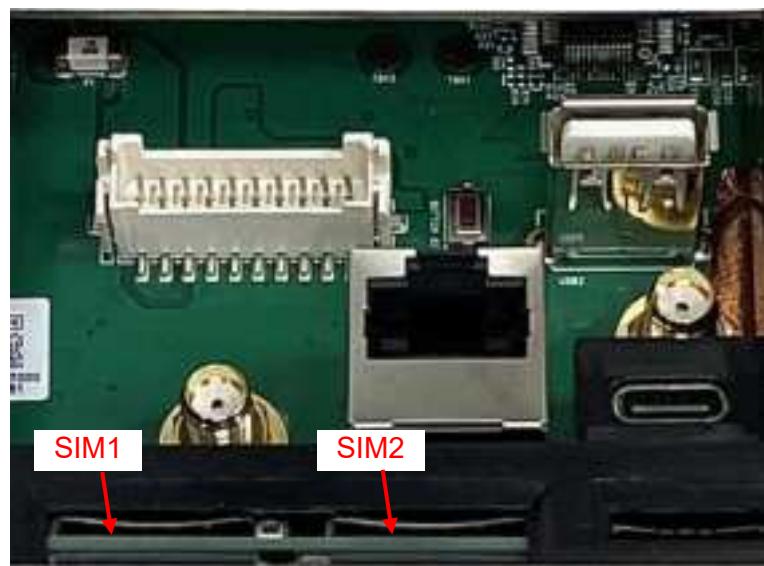
2.2. Insert SAM Card



Step 1: Insert SAM card into the desired slot.

Step 2: Gold contact is on the upper side of the card, and the cut corner is inside the slot.

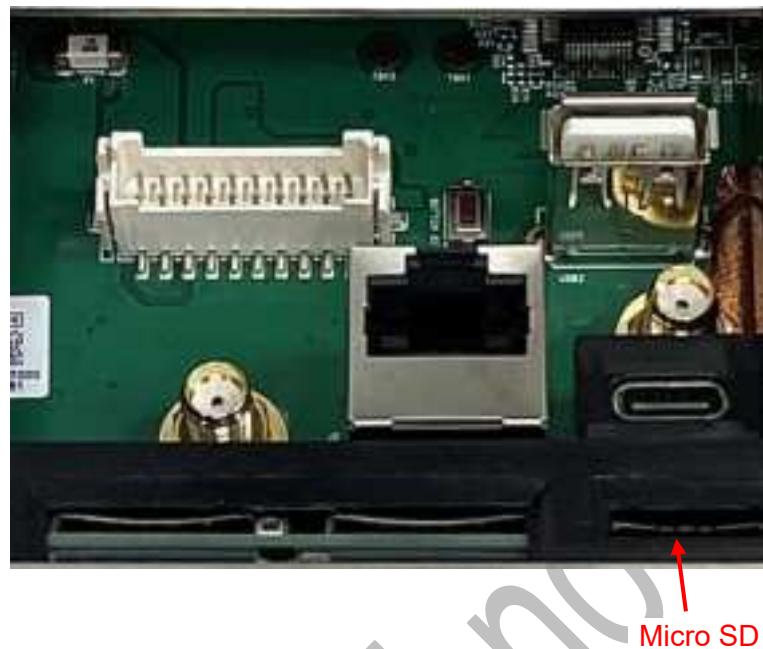
2.3. Insert GSM Micro SIM Card



Step 1: Insert GSM Micro SIM card into the desired slot.

Step 2: Cut corner is on the bottom right side of the card and facing down.

2.4. Insert Memory card



Step 1: Place the Micro SD memory card into the slot.

Step 2: Cut corner is on the bottom right side of the card and facing down.

3. Appendix

3.1. 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, 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 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.

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.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.

3.2. 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. Le présent appareil est conforme aux CNR d' ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Radiation Exposure Statement:

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with greater than 20cm between the radiator & your body.

For indoor use only.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à plus de 20cm entre le radiateur et votre corps.

Pour usage intérieur seulement.

3.3. UL

- Warning:**

Power cord shall be connected to a socket-outlet with earthing connection.

- Warning:**

Risk of explosion if battery is replaced by an incorrect type. Dispose of expended battery in accordance with 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 9-48 Vdc, 1.5-0.5 A min., Tma = 50 degrees C.

- Attention:**

Le cordon d'alimentation doit être branché sur une prise secteur avec mise à la terre.

- Attention:**

Risque d'explosion si la batterie est remplacée par une de type incorrect Éliminer la pile usagée conformément à la réglementation locale en vigueur.

- Attention:**

Le produit est destiné à être alimenté par un adaptateur secteur répertorié « L.P.S. » (ou "Source d'alimentation limitée") et est évalué à 9-48 Vdc, 1.5-0.5 A min., Tma = 50 degrés C.

- Warning:**

The equipment is only suitable for mounting wall at height \leq 2m.

- Attention:**

L'équipement ne convient que pour un montage mural à une hauteur \leq 2 m.

3.4. Detachable Antenna Usage

This radio transmitter [IC: 27350-S1E2UPT001, Contains IC: 27350-SLM500QA] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Le présent émetteur radio [IC: 27350-S1E2UPT001, Contains IC: 27350-SLM500QA] a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué pour tout type figurant sur la liste, sont strictement interdits pour l'exploitation de l'émetteur.

Manufacturer	Mode	Antenna Type	Max Gain(dBi)	Impedance
ADVANCED WIRELESS & ANTENNA INC	WWAN	Dipole Antenna for LTE application	4.52dBi	50 ohm
ADVANCED WIRELESS & ANTENNA INC	WLAN	Dipole Antenna for WiFi application	2.42dBi	50 ohm
SPORTON INTERNATIONAL INC	NFC	Loop Antenna	N/A	50 ohm

~ END ~