

CTR-S200

User Guide

2021.12.02



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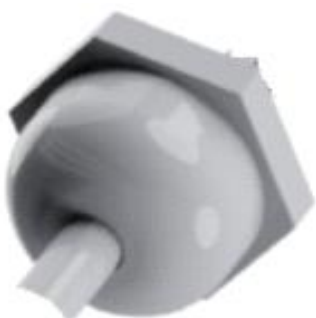
1. Product composition



[CTR-S200]



[Harness Cable]



[Cable Grand]

2. Specification

Classification		Detail
Model		CTR-S200
Operating System		Firmware
Mobile Communication	FCC	LTE Band 5 : 824 MHz – 849 MHz LTE Band 7 : 2 500 MHz – 2 570 MHz WCDMA Band 2 : 1 850 MHz – 1 910 MHz WCDMA Band 4 : 1 710 MHz – 1 755 MHz WCDMA Band 5 : 824 MHz – 849 MHz BT 5.0 : 2 402 MHz – 2 480 MHz
	CE	WCDMA Band 1 : 1 920 MHz – 1 980 MHz (25dBm) WCDMA Band 8 : 880 MHz – 915 MHz (25dBm) LTE Band 1 : 1 920 MHz – 1 980 MHz (25dBm) LTE Band 3 : 1 710 MHz – 1 785 MHz (25dBm) LTE Band 5 : 824 MHz – 849 MHz (25dBm) LTE Band 8 : 880 MHz – 915 MHz (25dBm) BT 5.0 : 2 402 MHz – 2 480 MHz (-7.32dBm)
Bluetooth		BLE 5.0
Location Information		GPS
Weight		310g(Including a battery)
Notification		LED(GPS, Status, Power)
Battery		Lithium-Ion Battery / 6,000mAh
Operating Voltage(V)		3.7V ~ 4.2V
Input Voltage(V)		AC24V
Dimension(mm)		90(W) X 150(L) X 29(D)

3. Part name & function description



Part name	Explanation	Features
[1] GPS LED (Blue)	Reception status for GPS Signal	• If LED is turned on, GPS module is being attempted • If LED blinks, GPS module is successfully received signal
[2] Status LED (Green)	Communication status for Reefer container, mobile network	• If LED blinks briefly, IoT device is failed to communicated with reefer container • If LED is turned on for a long time, IoT device is communicating with mobile network
[3] Power LED (Red)	Display the power status	• If LED is turned on, IoT device is operating • If LED is turned off, IoT device is on sleep mode(or power off)
[4] ON/OFF Toggle Switch	Device Power ON/OFF	• Put ON/OFF Toggle Switch to operate IoT device on initial installment
[5] Harness Cable	controller cable connector	• Cable connector for connecting reefer cotnainer controller & IoT device physically

4. Installation process

- (1) Drill a hole in the location where the equipment is installed outside the controller panel
- (2) Connect the RS232 cable inside of the control box to the RS232 connector of the main body
- (3) Connect the AC 24V power line inside the reefer container control box to the AC 24V connector of the main body
- (4) Check the status of the POWER LED on
- (5) Turn [4]ON/OFF Toggle Switch on to operate IoT device
- (6) Once the IoT device is attached on the drilled part, the installation is completed.

5. Event

(1) Shock Event

: In normal state, real-time shock is detected (shock outside the threshold) and event packet is generated

※ Shock packets are not duplicated in one cycle

(2) Equipment detachment detection even

: It detects the detachment status of the equipment in real time and generates an event packet

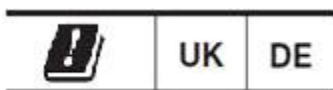
※ Desorption packets are not duplicated in one cycle

※ CE Compliance Information

Hereby, SWINUUS declares that this product is in compliance with the essential requirements

and other relevant provisions of RE Directive 2014/53/EU.

Instructions for use included in this manual are also available on the website(<http://www.swinnus.com>)in multiple languages.



country of sale : UK / DE

※ 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.

NOTE: THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS 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, including interference that may cause undesired operation of the device.

The user manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF 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.