

4G/lora Global version (GPS version)

Cattle and sheep positioning terminal

Product Specifications



Product name: cattle and sheep positioning terminal

Product model: 4G/lora global version

Product specification: 188*103*68mm

2、 Hardware technical indicators:

Communication band: SIMCOMA7670C-LASL

Southeast Asia: B1/B3/B5/B8LTE-FDD: B34/B38/B39/B40/B41

European SIMCO A7670E-LASE

LTE-FDD:B1/B3/B5/B7/B8/B20

GSM/2G:900/1800 MHz

SIMCOM A7670SA-LASE, North America/Brazil/South America/Mexico

LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B28/B66GSM/2G:850/900/1800/1900MHz

content	specifications
hardware platform	4G Ccat 1/1603 simcom A7670SA-LASL
frequency range	SIMCOM A7670SA-LASE LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B28/B66GSM/2G:850/900/1800/1900MHz LoRa: EU868/915MHz/433MHz/CN470
working voltage	DC 3.7 V
working current	5 milliamps
Wait for the current to flow	5 milliamps
location mode	Lora/GPS positioning + Beidou + base station positioning + WiFi (optional)
positional error	Base station <100 meters, GPS <10 meters (positioning error is related to the terrain and time of the area where the vehicle is located)
acquisition sensitivity	-143dB
tracking sensitivity	-159dB
GPS antenna	Built-in GPS/BD dual-mode FPC antenna 18X18X2 or 18X18
CN	4G full network +2G
communication mode	UDP/TCP depends on the communication protocol
GPRS	Class12 TCP/IP build
cold boot	-38s
warm boot	-2s

Operating temperature range	-25°C ~ +80°C
Storage temperature range	-25°C ~ +85°C
cell	20,000mah polymer battery + solar charging
Battery life	3-6 months depending on the frequency of use
size	125X73X25.7MM
weight	About 500g

3、 main features :

1. Built-in 20,000mah battery, support solar charging;
2. With the help of Lora and GPS positioning technology (option);
3. Multiple stimulation modes: Triple electronic fence 、 Disassembly alarm、 Warning buzzer、 Light prompt、 Electrostatic shock stimulus;
- 4.Environmental temperature and humidity detection, customizable temperature sensor 、 vibration sensor
5. Once your animal walks out of the safe area, the prompt will start automatically;
6. The intensity of stimulation is flexible and adjustable to adapt to animals of different body types;
7. The fence system has built-in rechargeable batteries and waterproof function;
8. Magnetic charging port, IP67 waterproof;

*** When installing the electric shock device, the equipment must be turned off. During the operation, insulated gloves must be worn to avoid the risk of electric shock.**

*** The electric shock function can be enabled or disabled according to the actual situation.**

4. Key and function description

1. Battery switch: ON to start up; OFF to shut down
2. Insert the SIM card
3. Signal light
 - 3.1 Orange light: indicates the status of Lora. It flashes for one second when offline and stays on for 5 seconds before turning off when online.

3.2 Red light: indicates the 4G status. It flashes for one second when it is not online, and stays on for five seconds before turning off when it is online.

3.3 Green light: indicates the positioning status. If not positioned, it flashes for one second, and if positioned, it stays on for 5 seconds before turning off

3.4 All three lights are off in the dormant state

3.5 Charging light (red): flash slowly when charging, and stay on after full charge

4. Beeleter mode: Sound a warning sound and stimulate the beeleter.

5. Electrostatic shock mode: electrostatic shock stimulation.

6. Magnetic charging port: Charge the device.

7. Low power alarm: When the power is lower than 10%, the alarm will be raised and please charge.

Suitable for solar energy, animal cattle and sheep positioning livestock industry, etc

Internal notes	Part name
1	Battery switch
2	Electric shock (platform display)
3	Signal light
4	buzzer
5	Maglev charging port
6	Electrical pins
7	Temperature and humidity (platform display)

5. Product installation operation process

equipment installation

(1) Check the equipment: check whether the appearance of the equipment is good and whether the relevant accessories are complete.

(2) Install the SIM card: Turn on the device and insert the SIM card into the card holder. Please avoid excessive force to damage the card holder, and do not plug or unplug the SIM card while the device is powered on. Ensure that the SIM card is mobile and has Internet access. Soldered cards do not require the above operation

(3) Tear the light sensor label on the back of the terminal (otherwise the terminal can not report the removal alarm after being removed)

(4) Turn on the battery switch

matters need attention :

1) Try to choose the installation of straps to prevent being removed;

2) Fix the installation position, and the solar panel faces upward.

3) Choose a dry position and a position that is not easy to get water to ensure the dryness of the terminal. It should be paid attention to keep away from the air conditioning outlet, so as to prevent condensation water accumulation inside the terminal under temperature change, which will seriously affect the service life of the product;

4) Avoid being placed together with the transmitter, such as audio and video, reverse radar, intercom and other electronic equipment in the car to prevent interference;

5) The device is equipped with GSM, antenna and GPS antenna. During installation, ensure that the receiving face is upward (toward the sky) and there is no metal object in the upper part, otherwise the antenna signal may be weakened and the device may work abnormally.

6. Troubleshooting and warranty service

Type of indicator light	Indicate the status of the light
Power on indicator	Online: Red light, location: Green light
	Power on: The green light stays on for about 8 seconds
	Positioning: Green light flashes once every second
	Position: Green light on for 8 seconds
	Not online: Red light flashing once a second
	On: The red light stays on for 8 seconds and then turns off

frequently asked	Description of the fault	Rx
The positioning signal is not good	The terminal is used in areas with poor reception, such as under high-rise buildings or basements, where satellite waves cannot be effectively received	Use the terminal in a place with good signal
Can't boot up	Repeated power on and off, the indicator light does not light	
Unable to connect to network	SIM card not installed	Check the SIM card and reinstall
	There is dirt on the metal surface of the SIM card	Please wipe it with a clean cloth
	The SIM card is damaged or invalid	Please replace the valid SIM card and contact your
	Outside the GSM service area	Please move to the service area of the network service provider
Location information could not be located	The signal is weak	Please move to a place with strong signal and try
	The SIM card is not activated for GPRS service	Contact the network service provider to open GPRS service
Send the instruction without changing the parameters	SIM card arrears	Recharge fee
	The instruction format is incorrect	Please reedit the instruction and send it again
	Send instructions without reply	Make sure that the terminal is properly connected to the network and that the SMS function of the

7. matters need attention

1. Pay attention to water proofing for electronic products.
2. The power supply of the equipment is between 3.7V and 5V DC, and the recommended working voltage is 3.7V. When installing, it is necessary to determine whether the user's power system is within this range, and exceeding the maximum voltage of the terminal will damage the terminal.
3. When the ambient temperature exceeds the normal operating temperature range of the terminal, it is recommended to cut off power.
4. Do not repair the device in case of abnormal conditions. The manufacturer shall not be liable for damage caused by connecting non-original accessories or removing the connection between components.

8. Warranty and after-sales service

1. This product enjoys one year's warranty service from the date of installation. If the equipment is damaged due to non-human factors or product quality during the warranty period, please contact the agent in time.
2. The customer's private damage or damage caused by force majeure (such as flood, vehicle accident) will not be repaired.
3. The warranty is only applicable to the device with this IMEI number. The product IMEI number is torn or blurred for paid repair.
3. After the expiration of the warranty period, the product damage and failure caused by use shall be charged for the cost of maintenance materials.
4. Provide customers with free consultation and technical services such as product purchase, use, installation, etc.

➤ SIM Installation Diagram

