

MEITRACK K211 GPS Smart Lock User Guide



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1 Copyright and Disclaimer

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2 Product Introduction

The K211 is a GPS smart lock that supports Long Range and GPRS communication. Its main functions include real-time lock status monitoring, anti-tamper alert, anti-cut alert, swiping an RFID card to lock or unlock the device, and super long standby time. There is no button on the outer case of the device, and the IP67 water resistance rating makes the device withstand harsh environments, and the device also has a crash-proof housing design. It is specially designed for door lock management in various land and sea transportation such as box trucks, trailers and containers.

2.1 Product Features

2.1.1 Locking or Unlocking the K211

Locking or Unlocking by Swiping RFID Cards

The function is used to lock or unlock the K211 by swiping authorized RFID cards. When you swipe an RFID card, the K211 will automatically detect and record the unlocking time, location and RFID card number, and these data will be sent to the server.

Operation process: Put the authorized RFID card on the K211's card swiping area. When the K211 detects this action, the buzzer will beep and the LVS LED indicator will be steady on, indicating that the K211 is unlocked. In this way, the last step for you is to pull out the lock rope. (To lock the K211, you only need to swipe the RFID card once. Then the buzzer will beep and the LVS LED indicator will be off, indicating that the K211 is locked.)

Swiping an RFID card:



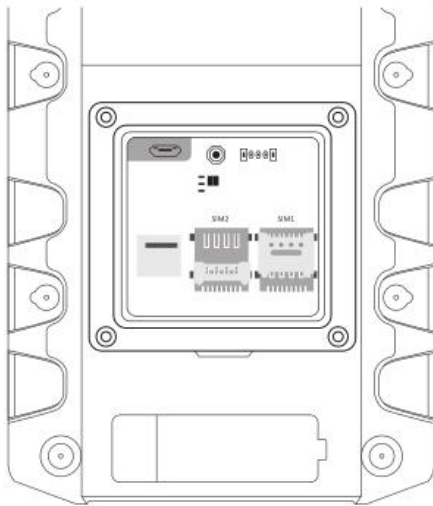
Note: In the locking or unlocking state, if you swipe an unauthorized RFID card, the buzzer will beep twice, but the K211 cannot be unlocked and locked. If you swipe an authorized RFID card, the buzzer will beep once. Before the K211 is locked, it is recommended to apply appropriate force on the lock rope first to make the waterproof ring of cable fully contact with the lock hole and improve the waterproof performance, and if the lock rope is cut, K211 cannot be locked. After the K211 is unlocked, if you do not pull out the lock rope within one minute, the K211 will be locked automatically.

Locking or Unlocking by Commands

Command	Description	How to Send
D82	This command is used to lock or unlock the K211.	Send the command by SMS or GPRS. For details about the SMS command format, see the section 6.6.8 "Locking or Unlocking the K211 – D82."
D83	This command is used to select a locking method: auto locking or locking by swiping RFID cards.	Send the command by SMS or GPRS. For details about the SMS command format, see the section 6.6.9 "Selecting a Locking Method – D83."

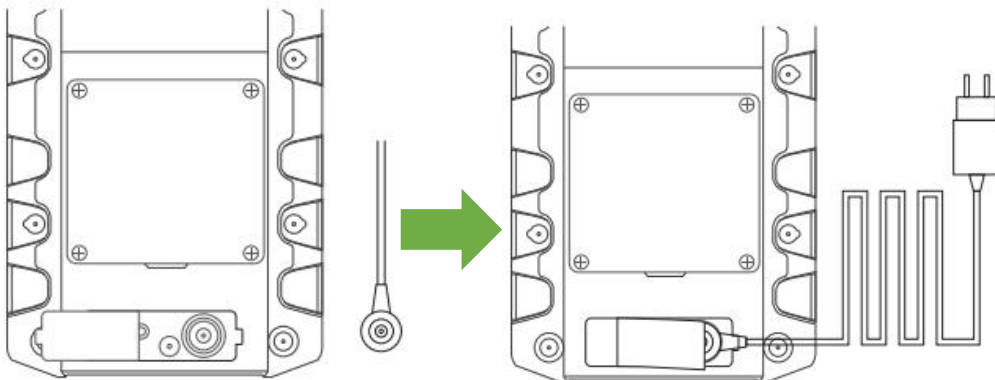
2.1.2 Dual SIM Cards

The K211 can be installed with two Micro SIM cards and supports the dual SIM single standby mode. The device will automatically select a SIM card to register the network. SIM1 (on the right) will be selected by default. If SIM1 fails to register the network, SIM2 (on the left) will be selected to do this. (Please ensure that at least one SIM card can be used normally.)



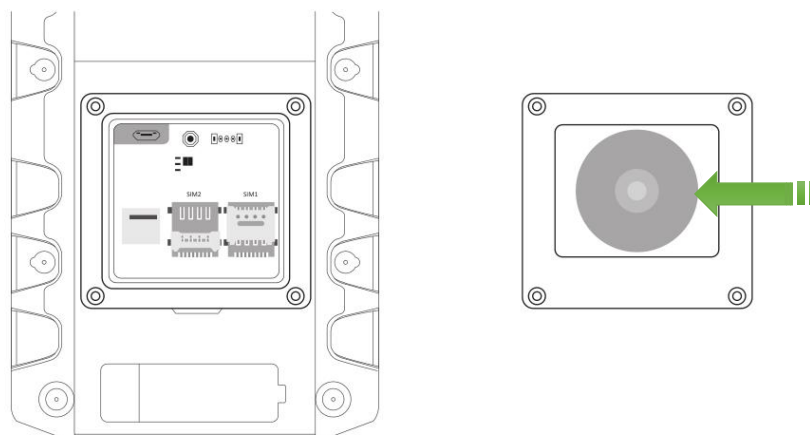
2.1.3 Magnetic Charging

You can use the magnetic charging cable to charge the K211. The device supports 9V/2A power adapter, and it will take a total of 7.5–8 hours to charge the device fully.



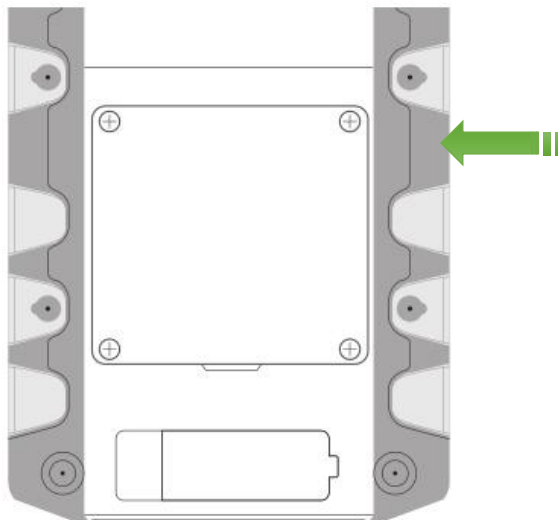
2.1.4 Strong Magnetic Adsorption

The back of the cover plate has strong magnetic, which can be adsorbed to the car door to prevent the device from shaking during movement.



2.1.5 Anti-collision Soft Adhesive

The gray protruding part in the figure is Anti-collision soft adhesive, which has shock absorption effect and it can effectively protect the device from being damaged in the collision.

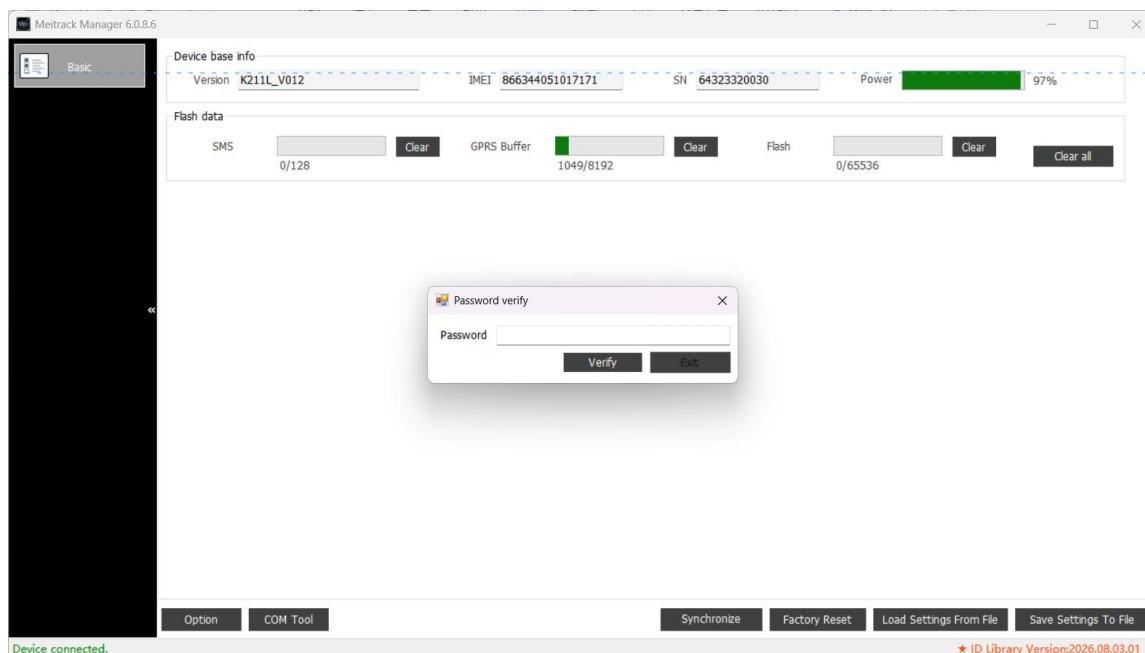


2.1.6 Security Performance - Super Password

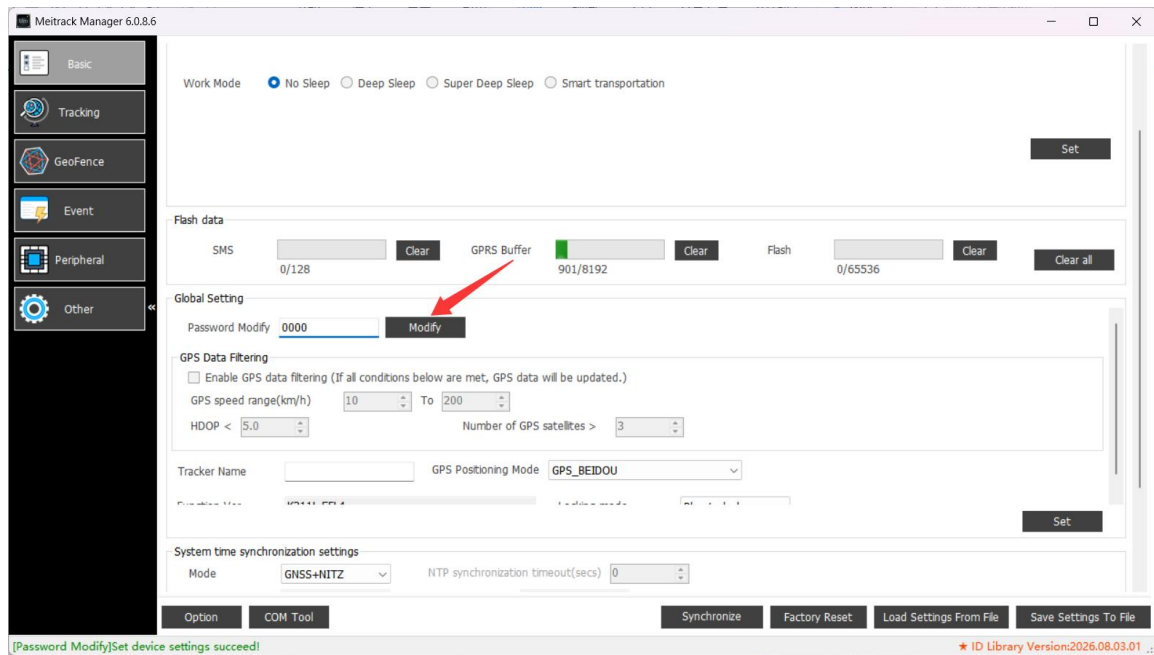
To enhance security, K211 supports super password.

Super password (the default is 666888) supports all SMS commands, but DB0 / D82 / D10 / D11 / D14 D15 / A21 / F22 commands can't use the original SMS password (the default is 0000), they can only use super password.

When opening MeitrackManager, the super password is required to access the configuration page.



Note: It is recommended to set a new super password first, because the super password is related to the security of unlocking; The default super password is 666888, which can be modified by Meitrack Manager and F22 command. Please make sure to remember the super password, and the super password cannot be requested and reset to the original value, once you forget the password, it will not be able to recover.



2.1.7 Working Mode

The K211L supports four working modes:

No Sleep: Data is sent continuously at fixed time intervals.

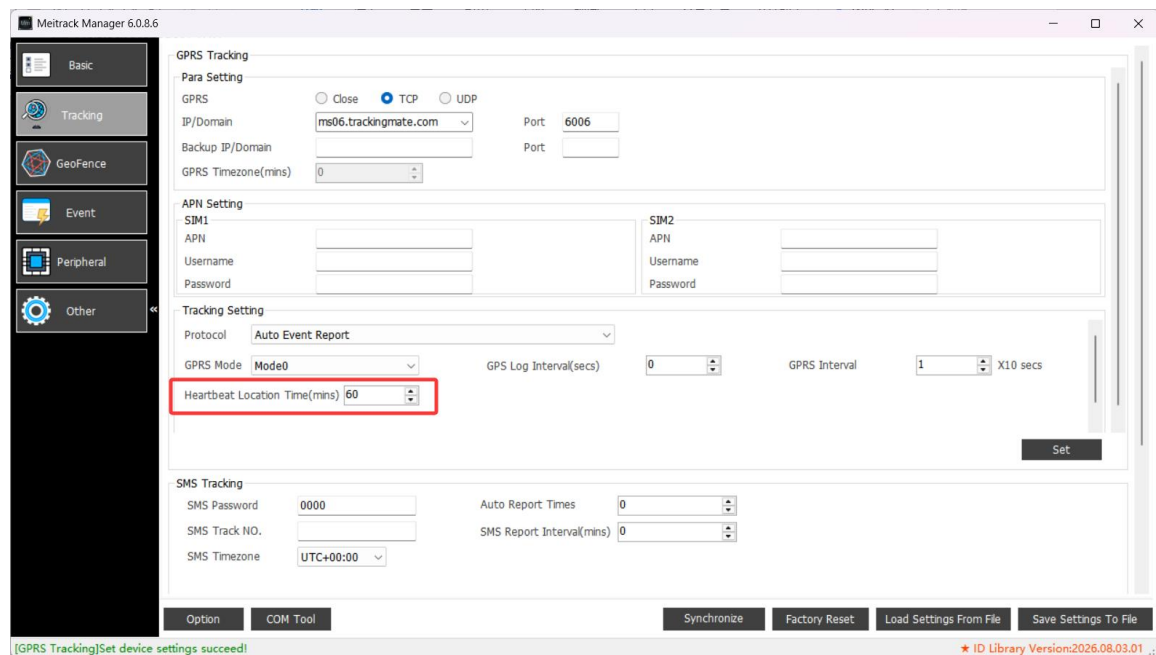
Deep Sleep: If the K211L is detected to be in a stationary state for more than 5 minutes, it will automatically enter deep hibernation. Vibration, text messages, or phone calls can all activate the device to wake up and work.

Super deep hibernation: The difference from deep hibernation is that it can only be awakened to work by vibration.

Smart transportation mode: The difference from deep hibernation is that when the device's moving state (vibration) is detected, if the fixed time interval is more than 5 minutes, it will send one piece of data and then enter hibernation, and this cycle repeats until a stationary state is detected. When in a stationary state, the device will send data at a default interval of 1 hour. If the fixed time interval is less than 5 minutes, it is the same as the deep hibernation mode.

Work Mode ☐ No Sleep ☒ Deep Sleep ☐ Super Deep Sleep ☐ Smart transportation

After the device enters sleep mode, the heartbeat packet upload interval can be configured in GPRS settings.



2.1.8 Forced Hibernation with low battery capacity

By default, when the battery level of the K211L is lower than 15%, it will be forced into the super deep hibernation mode. In this mode, data will be uploaded at heartbeat packet intervals. By default, one piece of data is sent every hour, and it is estimated to be able to work for about 10~20 days.

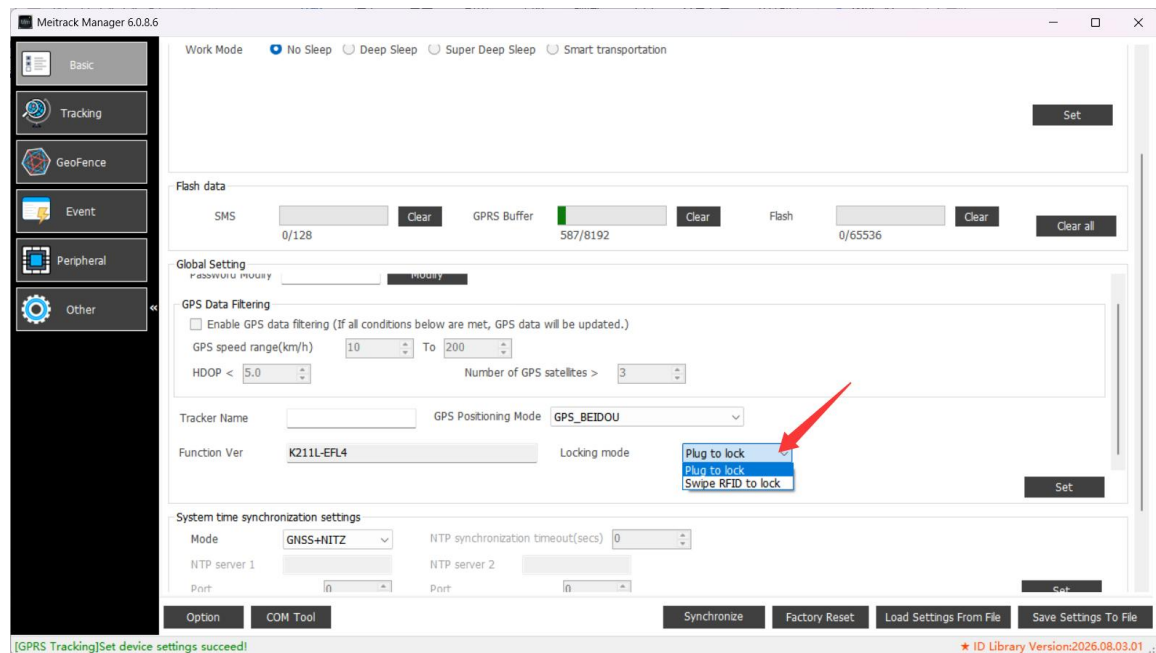
The percentage for low - power hibernation can be set through the following command.

Use the BC7 command to set the super deep hibernation (SMS / GPRS) when the power is low.

Method of setting	Password, BC7, X
Reply to SMS setting	IMEI, BC7, OK
Annotation	01 In decimal system, X ranges from 1 to 100 (percentage) 02 Without parameters means reading.

Remarks: This working mode allows the device to operate at low power for at least a certain period and unlock the rope lock by swiping a card. If the device runs out of power completely, it must be connected to an external power source for charging before the rope lock can be unlocked by swiping a card.

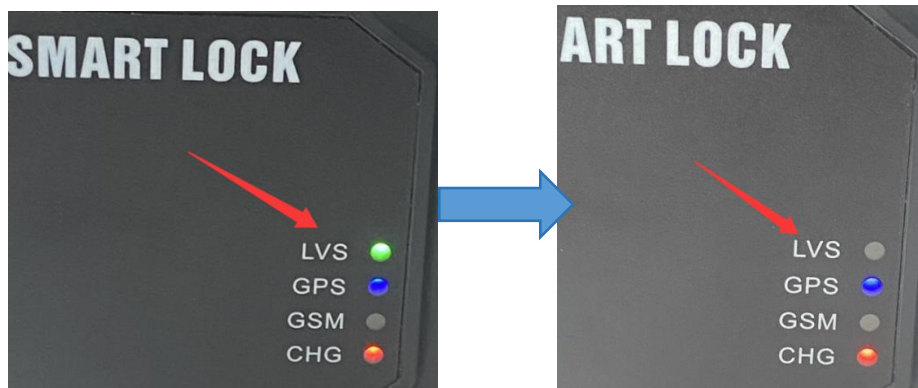
2.1.9 Locking mode



Plug to Lock (Default): After unlocking, insert the lock head directly to lock.

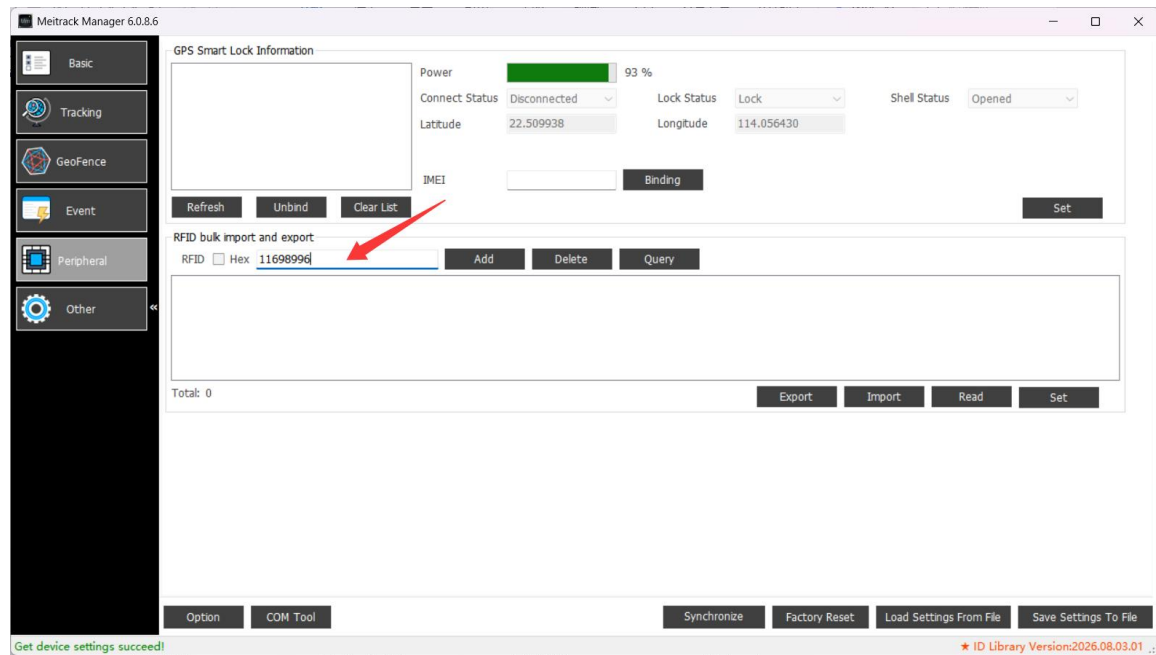
Swipe RFID to Lock: After unlocking and inserting the lock head, you need to swipe the card to lock.

When the device is locked, the LVS indicator will turn off.



2.1.10 RFID authorization

Register the ID number in Peripheral Settings - RFID Settings. Registration can also be performed via D10 (note to distinguish between decimal and hexadecimal).



3 Product Functions

3.1 Position Tracking

- GPS + LBS positioning
- Real-time location query
- Tracking by time interval
- Tracking by distance
- Tracking by mobile phone
- Speeding alert
- Cornering report
- Geo-fence

3.2 Alerts

Alert	Description
Outer case removal/open alert	An alert will be generated when the K211's outer case is removed or the back cover is opened.
Lock tamper alert	An alert will be generated when the lock rope is cut off.
Unlocking alert	An alert will be generated when you swipe an authorized RFID card to unlock the K211.
Locking alert	An alert will be generated when you swipe an authorized RFID card to lock the K211.
Unlocking failure alert	An alert will be generated when the K211 fails to be unlocked by swiping an authorized RFID card.
Locking failure alert	An alert will be generated when the K211 fails to be locked by swiping an authorized RFID card.

3.3 Other Functions

Function	Description
Deep sleep mode	The K211 can be woken up by vibration, swiping RFID cards and sending heartbeat packets. If no event is triggered, the K211 will enter the deep sleep mode after five minutes (default time).
Dual SIM cards	The K211 can be installed with two Micro SIM cards and supports the dual SIM single standby mode.
OTA update	Online OTA firmware update
Remote unlocking or locking by commands	The D82 command is used to lock or unlock the K211. You can send this command by SMS or MS06 platform.

4 Product Specifications

Item		Description
Dimension		112 mm x 195 mm x 37 mm
Lock rope length		300 mm (The length can be customized as needed.)
Weight		800g
Power supply		DC 9–14 V; 2 A
Material		The outer case of the device adopts PC materials.
Backup battery		14000 mAh/3.7 V
Power consumption		Current in standby (sleep) mode: 9 mA Current in normal working mode: 95 mA
Charging time		7.5–8 hours
Operating temperature		-20°C to 55°C
Operating humidity		5%–95 %
Working hour		Power-saving mode: 78 days Normal working mode: 150 hours
Charging		Magnetic charging (DC 9 V; 2 A; fast charging)
Water resistance rating		IP67
Frequency band	K211L-ER	GSM:850/900/1800/1900 LTE-FDD:B1/B3/5/B7/B8/B20/B28
	K211L-AUR	GSM:850/900/1800/1900 LTE-FDD: B2/B3/B4/B5/B7/B8/B28/B66
	K211E	GSM:850/900/1800/1900 Cat M1/Cat NB2: LTE- FDD:B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25/B26/B27/B28/B66/B71/B85
GPS antenna		Built-in GPS antenna

GPS sensitivity	-161 dB
Positioning accuracy	2.5 meters
RFID module frequency	125 KHz
Memory	64 MB
SIM card installation	Flip the card slot cover to install Micro SIM cards; dual SIM cards

5 Main Device and Accessories



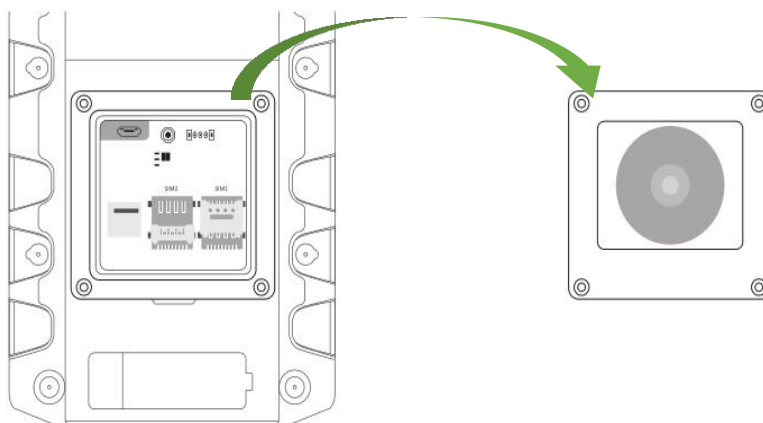
Note:

1. Two RFID cards are standard, optional more and white type RFID card. The Power adapter(9V) can choose UL or VDE.
2. USB cable is optional. Use common Android data cable.
3. After the lock rope is installed, water must not enter the lock bar position; otherwise, it will cause a lock switch fault of the device.

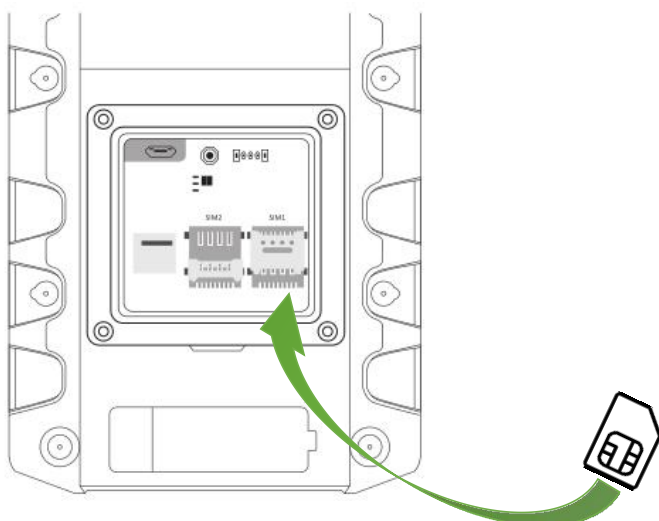
6 First Use

6.1 Installing a SIM Card

Remove the four screws from the cover and take the cover out.

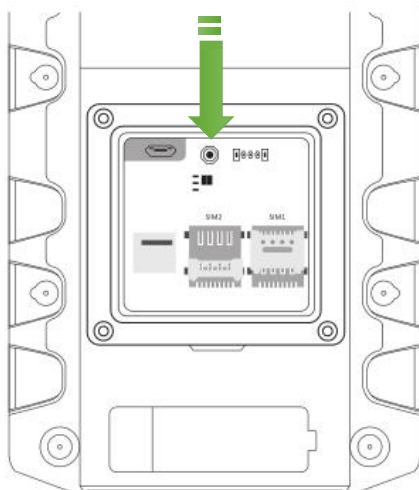


Insert a SIM card into one of the card slots (SIM1: right; SIM2: left).



6.2 Turning on the K211

Press the power button for 3 seconds. Then the GPS and GSM LED indicators will blink fast, indicating that the device is turned on.



Note: When using the device for the first time, you are advised to charge the battery fully.

6.3 LED Indicator

LVS LED Indicator (Green)	
Steady off	The K211 is locked or is not connected to the T399G.
Steady on	The K211 is unlocked.
Blink fast (0.2 seconds on and 4.8 seconds off)	The K211 is connected to the T399G.
GPS LED Indicator (Blue)	
Blink fast (once every 0.1 seconds)	The K211 is being initialized, or the battery power is low.
Blink fast (0.1 seconds on and 2.9 seconds off)	A GPS signal is received.
Blink slowly (1 second on and 2 seconds off)	No GPS signal is received.

GSM LED Indicator (Green)	
Steady on	There is an incoming call, or the subscriber you dialed is busy now.
Blink fast (once every 0.1 seconds)	The K211 is being initialized.
Blink fast (0.1 seconds on and 2.9 seconds off)	A GSM signal is received.
Blink slowly (1 second on and 2 seconds off)	No GSM signal is received.
CHG LED Indicator (Red)	
Steady off	The external power supply is disconnected.
Steady on	The K211 is charging.

6.4 Device Configuration

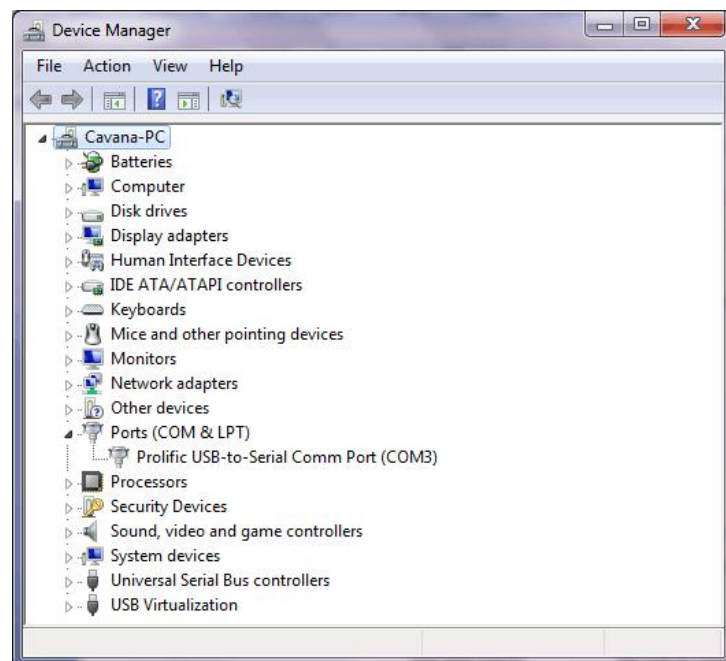
6.4.1 Installing the USB Driver

Install the USB driver on a computer with 64-bit Windows system.



After the installation is finished, connect the K211 to the computer by USB cable. If **Prolific USB-to-Serial Comm Port (COM3)** is displayed on the **Device Manager** page, the driver is installed successfully.

Note: Before connecting the K211 to the computer by USB cable, turn on the K211 first. Otherwise, it cannot be detected by Meitrack Manager.



6.4.2 Configuring Device Parameters by Meitrack Manager

This section describes how to use Meitrack Manager to configure the K211 on a computer.

Operation steps:

1. Install the USB driver and Meitrack Manager.
2. Connect the device to a computer by using the USB cable.



3. Run Meitrack Manager (6.0.0.9 version or later), then the following dialog box will appear:



4. Turn on the device, then Meitrack Manager will automatically detect the device model and the parameter page will appear accordingly.

For details about Meitrack Manager, see the *MEITRACK Manager User Guide*.

6.5 Common SMS Commands

6.5.1 Setting GPRS Parameters – A21

SMS Sending	Password,A21,Connection mode,IP address,Port,APN,APN user name,APN password
SMS Reply	IMEI,A21,OK
Description	Connection mode = 0: function disabled. Connection mode = 1: function enabled; use the TCP/IP reporting mode. Connection mode = 2: function enabled; use the UDP reporting mode. IP address: IP address or domain name. A maximum of 32 bytes are supported. Port: a maximum of 5 digits. APN/APN user name/APN password: a maximum of 32 bytes respectively. If no user name and password are required, leave them blank. Note: this command can only use super password.
Example	
SMS Sending	666888,A21,1,server.meigps.com,8800 ,CMNET,,
SMS Reply	353358017784062,A21,OK

6.5.2 Setting a Smart Sleep Mode – A73

SMS Sending	Password,A73,0
SMS Reply	IMEI,A21,OK
Description	When the sleep level is 0, the sleep mode is disabled (default). When the sleep level is 1, the tracker enters the normal sleep mode. The GSM module always works, and the GPS module occasionally enters the sleep mode. The tracker works 25% longer in the normal sleep mode than that in the normal working mode. This mode is not recommended for short interval tracking; this will affect the route precision. When the sleep level is 2, the tracker enters deep sleep mode. If no event (RFID, shear line, vibration, incoming calls, or SMSs) is triggered after five minutes, the GPS module will stop and the GSM module will enter sleep mode. Once an event is triggered, the GPS and GSM modules will be woken up. When the sleep level is 3, the tracker enters deep sleep mode. If no event (RFID, shear line, vibration) is triggered after five minutes, the GPS and GSM module will stop. Once an event is triggered, the GPS and GSM modules will be woken up. Hibernation level = 4, Smart transportation mode. In a moving state, if the detected fixed - time interval is greater than 5 minutes, the device will enter hibernation after sending data; if it is less than 5 minutes, the device will not hibernate and will keep sending data. It will remain in this state until it is in a stationary state, at which point the device enters the deep hibernation mode. Remarks: The difference between super - deep hibernation and deep hibernation is that in super - deep hibernation, the GSM module will be turned off, and the device cannot be awakened by phone calls or incoming text messages. The heartbeat event can only occur during deep hibernation and super - deep hibernation. By default, the heartbeat event is uploaded once every hour.
Example	
SMS Sending	0000,A73,0
SMS Reply	353358017784062,A73,OK

6.5.3 Setting the Maximum Working Time of the Woken GPS Module – A83

SMS Sending	Password,A83,X
SMS Reply	IMEI,A83,OK
Description	X: indicates the maximum working time of the GPS module woken up by heartbeat packet. Decimal; value range: 0–255; unit: minute. X = 0 (default): After the GPS module is woken up by heartbeat packet, it does not work and the GPS is invalid.
Example	
SMS Sending	0000,A83,1
SMS Reply	353358017784062,A83,OK

6.5.4 Setting the SMS Time Zone – B35

SMS Sending	Password,B35, <i>SMS minute</i>
SMS Reply	IMEI,B35,OK
Description	The default time zone of the device is GMT 0. You can run the B35 command to change the time zone of an SMS report to the local time zone. The time zone of an SMS report is different from that of a GPRS data packet. When SMS minute is 0, the time zone is GMT 0. When SMS minute is a value ranging from -720 to 780, set time zones.
Example	
SMS Sending	0000,B35,480
SMS Reply	353358017784062,B35,OK

6.5.5 Disabling the Power-off Function of the Power Button – C77

SMS Sending	Password,C77,0
SMS Reply	IMEI,C77,OK
Description	X = 1: You can turn off the device by power button. X = 0: You cannot turn off the device by power button.
Example	
SMS Sending	0000,C77,0
SMS Reply	353358017784062,C77,OK

6.5.6 Authorizing an RFID Card – D10

SMS Sending	Password,D10,RFID(1),RFID(2),...,RFID(n)
SMS Reply	IMEI,D10,OK
Description	RFID(n): indicates the authorized RFID card number. The value ranges from 1 to 4294967295. Decimal. A maximum of 50 RFID cards can be authorized at a time. Note: this command can only use super password.
Example	
SMS Sending	666888,D10,00000001
SMS Reply	353358017784062,D10,OK

6.5.7 Authorizing RFID Cards in Batches – D11

SMS Sending	Password,D11, <i>RFID card start number,n</i>
SMS Reply	IMEI,D11,OK
Description	RFID card start number: The value ranges from 1 to 4294967295. Decimal. n: indicates the number of RFID cards to be authorized in batches. Decimal. The parameter value ranges from 1 to 128. Note: this command can only use super password.

Example	
SMS Sending	666888,D11,00000001,128
SMS Reply	353358017784062,D11,OK

6.5.8 Locking or Unlocking the K211 – D82

SMS Sending	Password,D82,X
SMS Reply	IMEI,D82, lock state
Description	When X is 0, the K211 is locked. When X is 1, the K211 is unlocked. If the command does not contain the parameter X, the lock status will be read. X = 0: Locking; X = 1: Unlocking; X = 2: Lock tampering; X = 3: Lock abnormal; X = 4: Parameter error. Note: this command can only use super password.
Example	
SMS Sending	666888,D82,0
SMS Reply	868998030003608,D82,OK

6.5.9 Selecting a Locking Method – D83

SMS Sending	Password,D83,X
SMS Reply	IMEI,D83,OK
Description	When X is 0, the K211 is locked automatically. When X is 1, the K211 is locked by swiping RFID cards. The auto locking method is selected by default. If the command does not contain the parameter X, the locking method will be read.
Example	
SMS Sending	0000,D83,0
SMS Reply	868998030003608,D83,OK

6.5.10 Setting the automatic authorization time of swiping the RFID card – DB0

SMS Sending	Password,DB0,X
SMS Reply	Qcom 时间 DB0,OK
Description	X: ranges from 1 to 10000. Decimal, Unit: seconds Within the automatic authorization period of swiping the card, swiping any RFID card will be automatically authorized, after the end of the automatic authorization period, the working state will be back to normal. Send command without parameter means reading the remaining time. Note: this command can only use super password.
Example	
SMS Sending	666888,DB0,10
SMS Reply	868998030003608,DB0,OK

6.5.11 Changing Super Password – F22

SMS Sending	AAAAAA,F22,BBBBBB
SMS Reply	IME,F22,OK
Description	Need to enter super password before setting IP and port in MM. Super passwords support all SMS commands. But A21/D10/D11/D14/D15/D82/DB0/F22 commands only support super password, not SMS password. The default super password is 666888. The length is 6 digits. AAAAAA is the original super password, BBBBBB is the new password Note: this command can only use super password. Please make sure to remember the super password, and the super password cannot be requested and reset to the original value, once you forget the password, it will not be able to recover.
Example	
SMS Sending	666888,F22,OK
SMS Reply	868998030003608,F22,OK

Note: For details about SMS commands, see the MEITRACK SMS Protocol.

7 Using the Platform

7.1 MS06 Tracking System

Visit <https://ms06.trackingmate.com/loginPage>, enter the user name and password, and log in to the MS06. (Purchase the login account from your provider.)

For more information about how to add a device, see the *MEITRACK GPS Tracking System MS06 User Guide* (chapter 2).

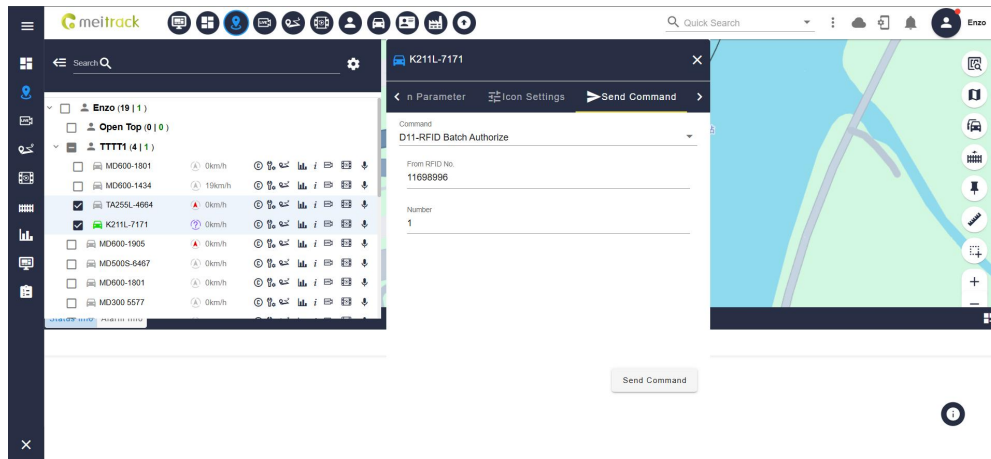
The MS06 supports the following functions:

- Track by time interval or distance.
- Query historical trips.
- Set polygonal geo-fences.
- Bind driver and vehicle information.
- View various reports.
- Send commands in batches.
- Support OTA updates.

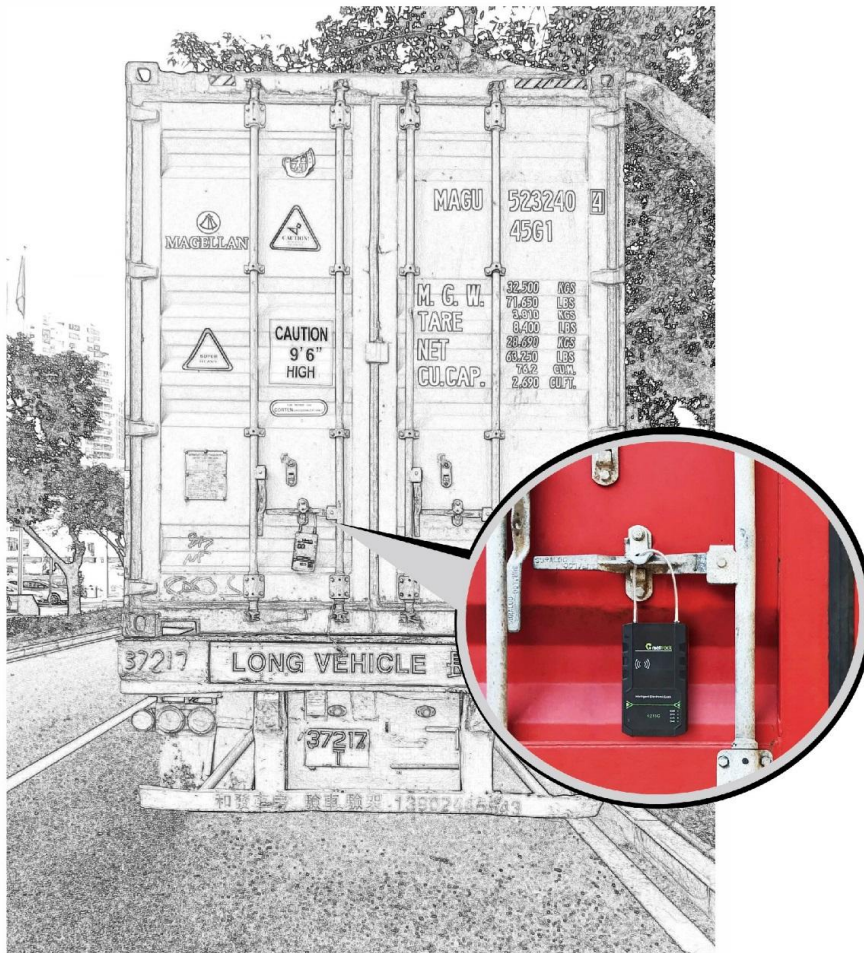
For details, see the *MEITRACK GPS Tracking System MS06 User Guide*.

7.2 Authorizing RFID Cards in Batches by MS06

In MS06 Management Center - Command Sending, click the RFID Batch Authorization command, fill in the starting RFID card number and authorization quantity to complete batch authorization. If authorizing only one proximity card, set the quantity to 1. After the RFID card is successfully authorized, you can swipe the authorized RFID card to perform lock/unlock operations and record the unlocker information.



8 Device Installation



If you have any questions, do not hesitate to email us at info@meitrack.com.