

ON-CAP10 container GPS User Manual(RFID) -3G

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Preface

Thank you for choosing the company's ON-CAP10(3G) Lock tracker, please carefully read the instructions before operating.

Please check the items in package with packing list, contact with the distributor when you found something leave out.

Disclaimer:

- Read this user manual carefully please. When you start use this product, then you are deemed to have read this user's manual.
- This Product used as assistant tool for Security only, can't prevent all kinds of deliberately theft or malicious damage vehicles. For the safety of your assets, you still need keep necessary vigilance and security awareness after you installed this product. We do not bear responsibility to any loss except product itself. Thanks!

1. Product Introduction

ON-CAP10 Lock tracker combined with positioning, monitor and observe, the main applies to container, trucks and other transportation object location and tracking services.

ON-CAP10 lock tracker fully supports the GPRS network data transmission function, GPRS platform can be combined with software to make it more widely used in large-scale cluster monitoring, transportation management and many other fields.

Product Features:

- Backup battery low power alarm.
- Build-in GSM/GPS antenna.
- Support GPS real-time tracking(platform support).
- Support GPRS network data transmission.
- Lock ON/OFF alarm.
- Lock-string tamper alarm.
- Rechargeable battery.
- Support sleep mode.
- Remote upgrade by OTA.
- Build in with magnet.

- Unlock with RFID card(max support 10 RFID card).
- Unlock with SMS command(with unlock password).
- Support 25 Geo-fence.

Note:

- ✓ This product function based on GPRS network; need a SIM card which have GPRS data transmit and SMS functions.
- ✓ SIM card is not include in the packing list, please prepare SIM card before you use this device.
- ✓ Please only use the charger from the factory.

2.Packing List

| No. | Name | Count |
|-----|----------------------|----------|
| 1 | ON-CAP10 Lock device | 1 |
| 2 | Lock string wire | 1 |
| 3 | RFID card | Optional |

3.Technical Parameters

| Name | Parameters |
|---------------------|--|
| GSM module | 900/2100MHz@UMTS 900/1800MHz@GSM |
| Color | Black |
| GSM module | UC15-E(QUECTEL) |
| GPS module | SKG1612R(Skylab) |
| Working Current | Around 130mA@3.7V battery |
| Sleep mode Current | Around 70mA@3.7V battery |
| Back-up Battery | 15,000mAh rechargeable lithium battery |
| Tracker size | 195mmx114mmx37mm |
| Tracker weight | 700g |
| Working temperature | -30°C - +60°C |
| Moisture | 5% - 95% |
| Locate Sensitivity | 5m,CEP |
| Locate time | Hot start(average): <2s Cold start(average): <25s |
| GPS Sensitivity | -165dbm |

| | |
|-----------------|---|
| GPS Frequently | L1,1575.42MHz |
| GPS Receiver | 22 Channels |
| LED Indicator | Use blue/green/red three color LED indicator to show the status of power/GPS/GSM. |
| Blind area data | 20,000 records |

4. Define of LED indicator

| | LED Color | Status | Status describe |
|------------------------|-----------|--------------------------|--|
| GSM status | Red | 3s blinking once | Find SIM card |
| | Red | 1s blinking once | Do not find SIM card or GSM module |
| | Red | 0.2s fast blinking in 2s | Device receiving or sending GPRS data |
| | Red | Off | GSM module fault, no power or LED die |
| GPS signal status | Green | 0.5s blinking once | Initializing |
| | Green | 1s blinking once | Initialization finished, but GPS do not get position |
| | Green | 3s blinking once | GPS get position now |
| | Green | Off | LED die, no power or GPS module fault. |
| Battery charger status | Orange | Light on static | Battery charging status |
| | Blue | Light on static | Battery fully charged (orange led off) |
| RFID | White | 1s blinking 3 times | During swipe the RFID card |
| Low power | Yellow | 1s blinking once | Low power alarm |

5. Device Installation

Before you start install the device, Please check the product you get with the packing list, if you have any problem please contact us or distributor in time.

5.1 Prepare works

- ✧ ON-CAP10 lock tracker
- ✧ Local GPRS SIM card
- ✧ RFID card

5.2 SIM Card Installation

This device need install a SIM Card, which must have GPRS data transmission and SMS function. In default setting, this device will use around 5MB~20MB data flow, please select suitable package.

Note:

- Do not install SIM Card in opposite way.
- SIM Card must open GPRS data transmission function
- Confirm the SIM Card have enough balance inside.
- Test SIM card by cellphone to check if it can connect network
- Please do not remove or insert SIM Card without power off, to avoid the damage to SIM card and device

5.3 RFID No. White List

1. Set by Tool "GPS Tracker Configuration Tool".



RFID

| | |
|------|------------|
| ID01 | 3934751802 |
| ID02 | 3673329978 |
| ID03 | |
| ID04 | |
| ID05 | |
| ID06 | |
| ID07 | |
| ID08 | |
| ID09 | |
| ID10 | |

clear read send

2. Set by command(Please check at command list for details).

| | | |
|------------------------------|---|---|
| SMS set RFID card white list | AS1234*269#6,ID1,ID2,ID3,ID4,ID5,ID6,ID7,ID8,ID9,ID10,# | Max: 10 ID card support. Example: Set 2 ID card AS1234*269#6,ID1,ID2,# |
| Query RFID card number | AS1234*269#Q# | |
| Clear RFID number | AS1234*269#6# | |

5.4 Lock ON

Just insert the lock wire into the hole, the lock hole will detect wire by AUTO, after been detect will be lock on, and device will beep once.

5.5 Unlock

a. Unlock with RFID card

Swipe the RFID card at RFID reader position for 1-3s, when you hear the beep sound, means unlocking, after the sound end, then you can pull the lock wire out;

b. Unlock with SMS command

| | | |
|------------------|------------------------------|-----------------------------|
| SMS unlock PW | AS1234*269#8,888888,# | Default unlock PW is 888888 |
| Change unlock PW | AS1234*269#8,888888,123456,# | 6 number PW. |

After you send the command, when you hear the beep sound, means unlocking, after the sound end, then you can pull the lock wire out.

6.Setting Commands (SMS)

To make the device work on GPRS mode together the control center software system, we have to set some parameters to make the device know where and how to connect the server.

The following parameters must be set before you use this device:

a. Server IP and Port (No.1 in table)

Device must have a server to upload the data to; in default it is set to our server IP and Port, if you use your own server, tell us before you place an order. The setting command is No.1, for example: AS1234*269#1,59.188.20.77,5577,0#

(In that command, "59.188.20.77" is the IP, "5577" is the port, "0" is UDP and upload self-def2.)

b. APN (No.3 in table)

Full name for APN is Access Point Name, which should be given when you buy a GPRS SIM Card. It is offered by GSM network supplier, like China Mobile public APN is CMNET.

It is consists of 3 parts: APN, APN user name, APN password. Some of the GSM operator do not have APN user name and APN password, just leave it blank.

c. Device parameters checking (No.6 in table, Optional)

The following is a SMS command list, with it you can set or get information you need.

| No. | Name | Command | Reply |
|-----|------------------------------|---|---|
| 1 | SMS SET IP、PORT | AS1234*269#1,120.24.225.253,5577,0# | IPPO:119.147.23.108;7777,0 OK |
| 2 | SMS SET ID | AS1234*269#2,12007845# | IDDO:00012345 OK |
| 3 | Set APN | AS1234*269#3,CMNET,,,# | APN:cmnet;OK |
| 4 | SMS restart | AS1234REBOOT# | GSM/restart;OK |
| 5 | SMS set back to factory | AS1234*269#F# | PASSWORD:1234;OK |
| 6 | SMS query status | AS1234STATE# | 119.147.023.108,07777,0,00001234,cmnet,,CA-P10-V1.0 ,M6 |
| 7 | SMS set ACC ON/OFF interval | AS1234INTERVAL:x,y# | Unit: seconds |
| 8 | SMS for GOOGLE link | AS1234WHERE2# | http://maps.google.com/maps?hl=en&q=+22.60548,+113.86560 |
| 9 | SMS set timezone | AS1234*269#I, Ex/Wx,# | TIME:E/Wx OK |
| 10 | SMS set over speed | AS1234SPEED:x# | Unit: km/h |
| 11 | SMS set Mileage | AS1234MILEAGE:x# | Unit: KM |
| 12 | Change SMS password | AS1234PASSWORD:4321# | |
| 13 | SMS set RFID card white list | AS1234*269#6,ID1,ID2,ID3,ID4,ID5,ID6,ID7,ID8,ID9,ID10,# | Max: 10 ID card support. Example: Set 2 ID card AS1234*269#6,ID1,ID2,# |
| | Query RFID card number | AS1234*269#Q# | |
| | Clear RFID number | AS1234*269#6# | |
| 14 | SMS unlock PW | AS1234*269#8,888888,# | Default unlock PW is 888888 |
| 15 | Change unlock PW | AS1234*269#4,888888,123456,# | 6 number PW. |
| 16 | Check IP,ID,APN | AS1234*269#C# | IP:120.24.225.253,2008,1,cmnet,,,ID:61000640, M:6,GPS:A,5,CSQ:28,CGR:1,ACC:1,BAT:33%,V ER:ON-CAP10-V1.0 |
| 17 | GOOGLE LINK | AS1234WHERE2# | Track from 61000640,PLS help at speed:0Km/h,battery:32%,V, http://maps.google.com/maps?hl=en&q=22.59270,113.87099 2017-08-22 16:04:17 |

7.Serial command list

| No. | Name | Command | reply | |
|-----|--|--|--|---|
| 1 | Set IP | *269#1,120.24.225.253,5577,0 | 59.188.20.77;5577,0;OK | Reply content is "IP" "Port", connection type: 0 UDP 1 TCP |
| | Set URL | *269#1,120.24.225.253,5577,0,URL, | | |
| 2 | Set ID | *269#2,12007845 | 12007845;OK | Current "ID" |
| 3 | Set APN | *269#3,CMNET,,, | CMNET,,;OK | APN setting |
| 4 | Set back to factory | *269#F | Reset OK; | |
| 5 | Check IP,ID,APN | *269#C | IP:120.24.225.253,20 08,1,cmnet,,,ID:6100 0640,M:6,GPS:A,5,CSQ :28,CGR:1,ACC:1,BAT: 33%,VER:ON-CAP10-V1.0 | CSQ: GSM signal strength; Ms:6 online BAT:33% |
| 6 | Check parameters | *269#R | AccOn:30,Off:30;Sp:0;stp:0; dr:0;mds:0;Led:on;BSL:off;T el1::;Tel2::;Oil:on,gps:A,unit: KM,M:6,Z:8,WR:30,SES:00 000044 | |
| 7 | Check version | *269#V | Version:ON-CAP10-V1.0@May 18 2017 11:48:33 | |
| 8 | Set authorized number (not support now, can be add) | *269#5,X,X,X,X, | X,X,X,X, set ok | Need to add country code in each number.like china is +86, then the number should be: *269#5,8612345678912,,,(max: 4 numbers) |
| 9 | Query authorized number | *269#P | 8612345678912,,,,;OK | To check the authorized numbers. |
| 10 | Set timezone | *269#I, Ex/Wx, | E:means east; W:means west; X is 0-12. | Example: Set GMT-6: *269#I,W6, |
| 11 | Set ACC on/off upload interval | *269#7,x,y, | x=ACC ON upload interval, y=ACC OFF upload interval; | |
| 12 | SMS set RFID card white list | *269#6,ID1,ID2,ID3,ID4,ID5,ID6,ID7, ID8,ID9,ID10, | Max: 10 ID card support. | Example: Set 2 ID card |

| | | | |
|----|------------------------|-----------------------|---|
| | Query RFID card number | *269#Q | |
| | Clear RFID number | *269#6 | |
| 13 | SMS unlock PW | *269#8,888888, | Default unlock PW is 888888 |
| 14 | Change unlock PW | *269#4,888888,123456, | 6 number PW. |
| 15 | Change angle upload | *269#G,x | X: 0-180 degree. |
| 16 | Sleep mode No.1 | *269#9,M1,x1,x2,x3, | M1: only enable sleep with unlock; x1=wake up working time; x2=sleep mode upload time; x3=reserved Unit is minute. |
| 17 | Sleep mode No.2 | *269#9,M2,x1,x2,x3, | M2: enable sleep with unlock and lock; x1=wake up working time; x2=sleep mode upload time; x3=reserved Unit is minute. |
| 18 | Disable sleep mode | *269#9,M0 | |

8. FAQ

8.1 Show offline in Software Platform

Check if the device LED indicator shows normal. If device is not beside you, use telephone to check. Call the SIM card telephone you inserted in device, and make sure the SIM card is working.

8.2 All the devices show offline in Software Platform

Check the software platform server part, if it works normal contact with your GSM network operator. If both server and GSM network have no problem, then contact us.

8.3 Device do not get correct position

First time get position will take longer time (around 1~2 min), please drive to a wide area to get position. If it takes long time and do not get correct location, please check if the

device install position is correct and no metal shield above it.

8.4 Device do not get GSM network

Make sure the SIM card has money/enabled GPRS, and was correct installed, and make sure the device not in a GSM signal blind area (such as underground garage).