

Shenzhen Joint JT707A E-Seal Tracker with GPS Tracking User Manual

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SHENZHEN

Shenzhen Joint JT707A E-Seal Tracker with GPS Tracking



Application

Guidance for internal techniques and customer support

StandardIntroduced

IEC60529/GB4208-2008 Housing Protection Level

Product Introduction

JT707A, an Intelligent E-lock for mobile assets management solutions, boasts a tiny size, easy installation, and low cost which supports GPS. Real-time tracking information for assets and remote changing of product configuration is available. Coupled with rechargeable or disposable Li-ion battery, JT707 can be re-used or one-time-used, which is a set of safe, intelligent, and convenient solutions for mobile assets management.

Product and Accessory

Include JT707A device:



FunctionIntroduction

Remote Tracking of Device'sStatus

The device's status can be captured by means of real-time trackings, such as speed, direction, GPS location, and status of the lock rope, which secures the shipping in a more efficient way.

Smart Working Mode

The device in sleep can be waken up by inserting or cutting rope. It would be convenient for clients to be kept informed of assets' location and other status by uploading real-time data, which enables them to act accordingly and secures reliability in transit. A power-saving mode will be activated by default if the device is disconnected for a long time.

Status of LockRope

The real-time status of the lock rope will be uploaded on the user platform, following the GPS data as well. It would be crystal clear for clients to be kept informed of the status of the current asset; The rope cut will be counted which enables maximum use for clients.

RED LED Status

ON 500ms, OFF 500ms, means registered network successfully; ON 100ms, OFF 100ms means connected to a server and sending data; OFF always, means a device in sleep mode.

Function&Performance

Locating	Ways	GPS,LBS
	Data	Coordinates.Speed, Time, Direction
Data-collecting	Live Status	Lock rope, Motion, Location, Battery
	Lock Status	Real-time counting of lock/unlock
Data Storage	Size	1000 data can be stored
	System	Upload blind area data when available
Data Communication	Ways	GSM 1. Inbuilt ESIM can support data only, can not support SMS; 2. When deice work in sleep mode, can not use SMS
	Content	Live data, Blind area data, Alarms
	Smart Wake-up	Fixed-time wake-up or triggered by rope-cutting
Alarm	Alarm	Rope-cutting alarm

		Low battery alarm	
Battery	Battery management	Recharge Li-ion battery, capacity 1500mAh;	
		Low battery management	
Configuration	Configuration	USB PORT, GPRS	

Continuous Working Period

No .	Upload Interval	GPS, GSM Signal Normal to Work	GPS, GSM Signal Poor to Work
1	30 Minutes/Per Data	16 Days	8 Days
2	4 Hours/Per Data	101 Days	55 Days
3	12 Hours/Per Data	200 Days	128 Days
4	24 Hours/Per Data	264 Days	193 Days

Battery Capacity: 1500mAh

Operation Device

Recharge



Put the device on the “Config&Recharge BOX”, switch to recharge status, the “Config&Recharge BOX” the other side connects to the adapter, then red LED will be light.

Note: LED turn to green means full charged.

Note: When you are using adapter output 5V/1A, recharge to 90%, will spend 100 minutes, recharge to 100%, will spend 150 minutes.

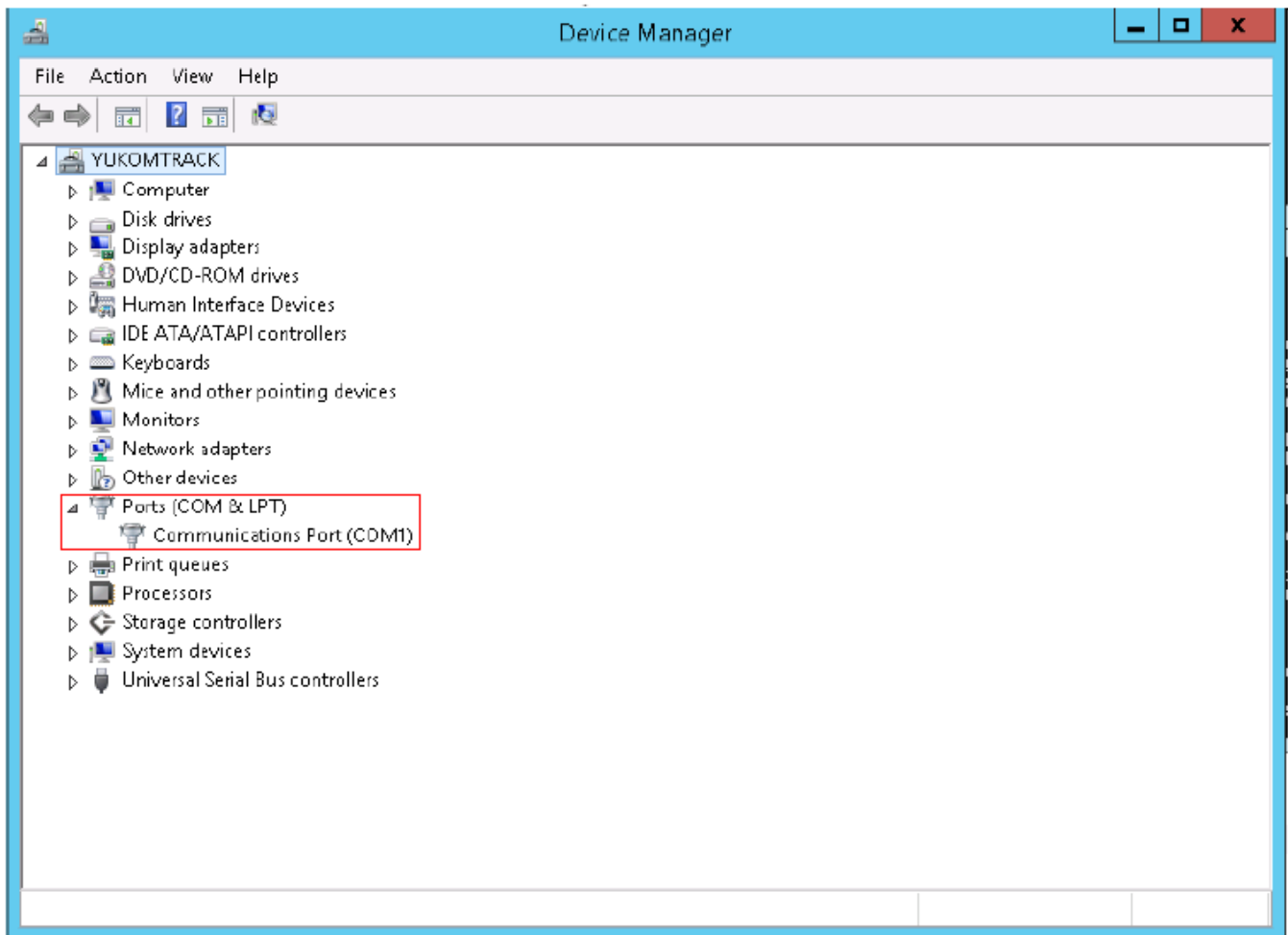
Device Configuration

PC tool to configure a device

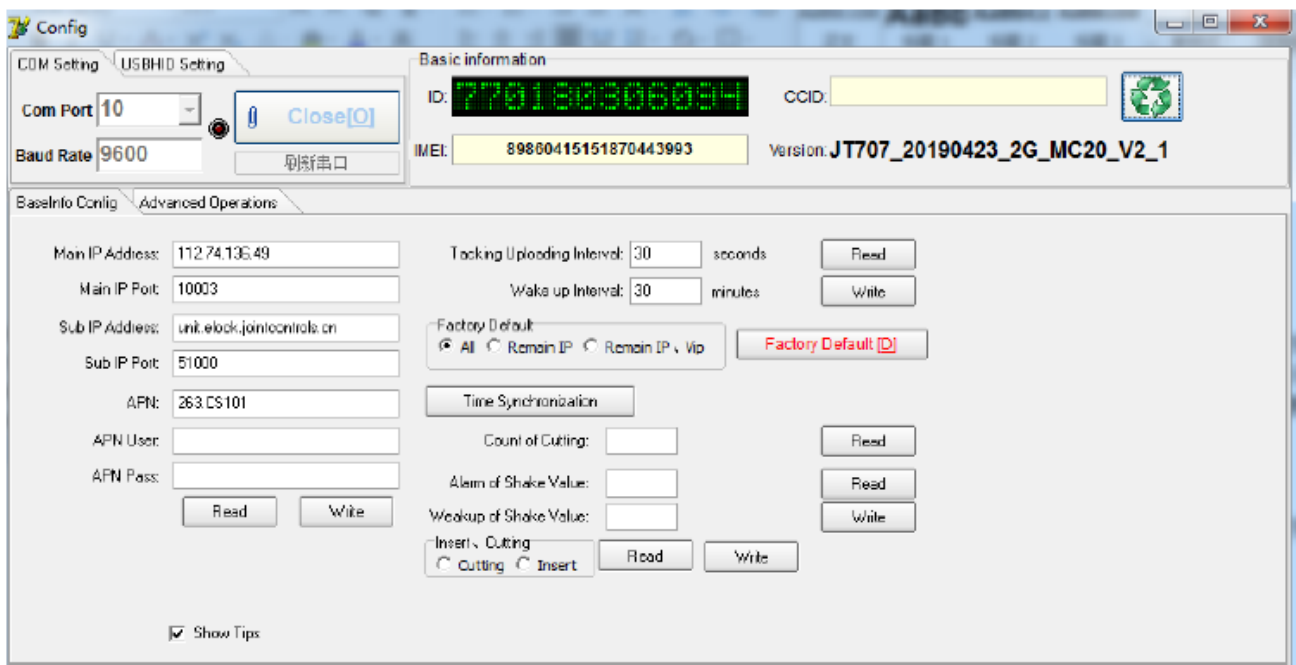


Put the device on the “Config&Recharge BOX”, switch to config status, the “Config&Recharge BOX” the other side connect to computer, then the green LED will be light.

Then install the config cable driver.



Check the cable driver and COM port status.



Running the PC tool to set device parameter

**GPRS/SMS(Inserted Micro SIM Card)
To Query Terminal's Basic Information**

Send commands	(700160818000,1,001,BASE,1)
Commands descriptions	Query terminal version
Premise of commands	no
Parameters descriptions	no
Relevant function descriptions	<p>Returns the following message</p> <ol style="list-style-type: none"> 1. Terminal version 2. Alias of the terminal ID 3. GSM model version 4. SIM card's CCID 5. IMEI of the GSM model 6. GSM Internet information of community
	<p>(700160818000,1,001,BASE,1,1,20150418_G300,0,BeiHuan,1137B03SIM90 0M64_ST_MS,</p> <p>89860042191130000000,89860042191130272549,012207005620932,460,</p> <p>00,4243,6877)</p>

Expectations returns	No.	example	description
	1	20150418_G300	Current terminal version
	2	0, BeiHuan	The 0 means English, while 1 means Unicode of other languages.,” BeiHuan” is expressed by ASCII code. For example, there are 8 bytes for alarm(62A58B66). Here is English with the name of” BeiHuan”.
	3	1137B03SIM900M6 4_ST_MMS	GSM model version
	4	8986004219113000 0000	I'M ICCID
	5	8986004219113027 2549	Micro SIM cardICCID, empty if no SIM card
	6	012207005620932	IMEI of GSM model

Send commands	(700160818000,1,001,BASE,1)
Commands descriptions	Query terminal version

Premise of commands	no		
Parameters descriptions	no		
Relevant function descriptions	Returns the following message 1. Terminal version 2. Alias of the terminal ID 3. GSM model version 4. SIM card's CCID 5. IMEI of the GSM model 6. GSM Internet information of community		
Expectations returns	(700160818000,1,001,BASE,1,1,20150418_G300,0,BeiHuan,1137B03SIM90 0M64_ST_MMS, 89860042191130000000,89860042191130272549,012207005620932,460,00,4243,6877)		
	No.	example	description
	1	20150418_G300	Current terminal version
	2	0, BeiHuan	The 0 means English, while 1 means Unicode of other languages., "BeiHuan" is expressed by ASCII code. For example, there are 8 bytes for alarm(62A58B66). Here is English with the name of "BeiHuan".
	3	1137B03SIM900M64_ST_MMS	GSM model version
	4	89860042191130000000	ESIM ICCID
	5	89860042191130272549	Micro SIM card ICCID, empty if no SIM card
	6	012207005620932	IMEI of GSM model

To Set Query/Set Master &Slave IP address and port, APN, user name, and password

Send commands	(700160818000,1,001,BASE,10,1,211.154.112.98,1088,211.154.112.99,1088,CMNET,abc,123456)
Command descriptions	Query/Set Master &Slave IP address and port, APN , user-name and password
Premise of commands	no
Command- parameters descriptions	<p>To Set parameter</p> <p>1,211.154.112.98,1088,211.154.112.99,1088,CMNET,abc,123456</p>
	<p>1 Function of commands</p> <p>0 means query ESIM parameters, the later parameters can be ignored eg (700160818000,1,001,BASE,10,0)</p> <p>2 means query Micro SIM card parameters, the later parameters can be ignored eg (700160818000,1,001,BASE,10,2)</p> <p>1 means setting ESIM parameters, (700160818000,1,001,BASE,10,1,211.154.112.98,1088,211.154.112.99,1088,CMNET,abc,123456)</p> <p>Main IP, PORT: 211.154.112.98,1088 Backup IP, PORT: 211.154.112.99,1088 ESIM APN: CMNET</p> <p>APN user: abc</p> <p>APN password: 123456</p> <p>3 means setting micro SIM card parameters, (700160818000,1,001,BASE,10,3,211.154.112.98,1088,211.154.112.99,1088,CMNET,abc,123456)</p> <p>Main IP, PORT: 211.154.112.98,1088 Backup IP, PORT: 211.154.112.99,1088</p> <p>Micro SIM card APN: CMNET APN user: abc</p> <p>APN password: 123456</p>

		<p>Items can set null</p> <p>If the backup IP & port no need to set, user-name and password will be the following (700160818000,1,001,BASE,10,1,211.154.112.98,1088,,,CMNET,,)</p>	

		<p>211.154.112.98IP address: server address for uploading GPRS.</p> <p>PS: The first IP is master IP and the latter is slave IP.</p>
		<p>1088 port: No. Of server port; PS: The first IP is master IP and the latter is slave IP.</p>
		<p>CMNET APN name: within 32 bytes</p>
		<p>ABC,123456 user-name, and password: both within 20 bytes</p>
	Relevant descriptions of function	<p>When setting the master IP it will immediately reconnect to the newly set master IP after the terminal response</p> <p>When the master IP fails to connect, the terminal will query if there is an IP setting automatically; If detects, it will connect slave IP.</p>
	Expectations return	<p>(700160818000,1,001,BASE,10,211.154.112.98,1088,211.154.112.98,1088,CMNET,abc,123456)</p>
	Feedback descriptions	<p>feedback 211.154.112.98,1088,211.154.112.98,1088,CMNET,abc,123456: .Same as above</p>

To Query/Set upload,Sleep, Periodic wake-up Interval

Send commands	(700160818000,1,001,BASE,6,1,60,30,30)
Commands descriptions	Query/Set upload ,sleep,periodic wake-up interval
Premise of commands	no
Command- parameters description	Set parameter 1,60,30,30
	1command function 0 means query; If it's 0 the following can be ignored eg(700160818000,1,001,BASE,6,0) 1 means setting.
	60—upload interval(Motion), unit by the minute. For the upload contents, please see"2.8positioning data" This value is set 30 minutes as default. The the minimum value is 30 minutes and the maximum of 1440 minutes(12h).
	30—Fixed as 30, reserved.
	30—upload interval(Static), unit by the minute. For the upload contents, please see"2.8positioning data" This value is set 30 minutes as default. The minimum value is 30 minutes and the maximum of 1440 minutes(12h).
Relevant descriptions of function	no
Expectations return	(700160818000,1,001,BASE,6,60,30)
Feedback	feedback 60,30:same as above setting

Install Micro SIM Card



Remove the device top side cover.



Insert Micro SIM Card, then recover the top side cover.

Note: Device within Embedded-SIM, as below picture:



EnvironmentAdaptation

- Low-temperature type battery
Temperature: -40°C~55°C
- High-temperature type battery
Temperature: -20°C~75°C
- Humidity
It can work for 48 hours under the testing of +50°C and 95% non-condensing humidity.
- Impact
The device will be intact under the testing of a half-sine wave, 5G acceleration, and pulse duration of 11ms by impacting three times from each axis. The device functions well during and after testing.
- Vibration
Scanning range: 5Hz~300Hz. Scanning speed: 1oct/min Scanning time: 30 minutes in each direction
- Housing Protection grade
The housing of the Intelligent device is compatible with the requirements of IP65 in GB/T4208-2008
- Electromagnetic Compatibility
The immunity of ESD is compatible with the requirements of GB/T17626.2. With the testing grade of 7kv accepted contact discharge and 14kv air discharge, grade B is judged. The immunity to radiation can meet the requirements of GB/T17626.3. With field strength of 24V/m and frequency of 20MHz~6000MHz, grade B is judged.
- Installation Compatibility
Ways: Locked by bolting and unlocked by rope-cutting

CoreParameters

Basic parameters	Size	46mm*21mm*52mm
	Length of Lock Rope	300mm, with a unique ID for each rope
	Weight	about 67g
	Housing material	Nylon
	Protection grade	IP67
	Working Temperature	-10°C — 45°C
	Storage Temperature	-40°C — +85°C
	Relative Humidity	5%—95%
	Working Current	Av. current<100mA Standby <20uA
	Battery Capacity	1500mAh,3.7v rechargeable Li-ion, 500 data upload supported
	GPS Antenna	Built-in

	GSM Antenna	Built-in
	SIM	Micro SIM Card

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		GPS module	Frequency	GPS L1 Frequency (1575.42MHz)	BeiDouB1 (1561.10MHz)
			Start speed	Hot start <1s Cold start 35s(typical value)	
			Accuracy	<10 meters	

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 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 device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

NOTE: 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.
- To maintain compliance with FCC's RF exposure guidelines, This equipment should be installed and operated with a minimum distance of 20cm from the radiator of your body: Use only the supplied antenna.

Documents / Resources

