

JN707A E-seal Tracker V1.3



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August 15, 2025

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Product Introduction

JN707A electronic seal tracker is an upgraded product based on JN707A- electronic seal tracker. It is a lightweight, easy to install, and low-cost smart lock product for mobile asset management solutions. It supports GPS/Beidou dual-mode positioning and provides asset Regular tracking information, support for remote modification of product configuration parameters, with rechargeable lithium batteries, recyclable, is a set of high security, intelligent and convenient mobile asset management solution products.

The application scenario is suitable for remote monitoring of containers, flatbed trucks, and box truck management.

Product Functions

Hardware/Firmware Features	The main function	Functional description
Hardware function	Based on 2G network communication	
	GPS+LBS	
	Rechargeable lithium battery	1800mAh, DC 3.7V
	Serial port	It can be used for parameter configuration and DEBUG debugging
	LED	The device has a working status indicator light
	Galvanized steel wire lock rope	
Firmware function	Locating	GPS,LBS
	Location data	Coordinates, Speed, Time, Direction
	Real-time status information	Lock lanyard status, device movement status, location information, real-time power
	Switch lock status	Real-time statistics of the number of lock switches
	Temperature check	Detect onboard temperature
	Storage size (module storage)	Can store about 1000 pieces of data
	Storage mechanism	storage mechanism
	Communication method	support GSM SMS is not supported: 1.Since the module is in a power-off state during sleep, the SMS wake-up function cannot be supported, and

		the SMS function is not obvious; 2.The eSIM card does not support the SMS function. If the SIM card is customized by a large customer and the hardware is capable, it does not currently support it.
	Communication content	Real-time data, blind area data
	Smart wake up	1. Timed wake-up (different time intervals can be configured for static and motion states); 2. Cut the rope/insert the rope to trigger the wake-up.
	Alarm type	Low battery alarm (system platform analysis)
		Low battery alarm (system platform analysis)
		Cover removal alarm

Product Specification

Term	Description
Size	46mm*21mm*52mm
Length of Lock Rope, Diameter	L 300mm,Φ1.8mm
Lock rope material	Galvanized steel wire, the maximum tensile force is 60kg
Weight	About 67g
Housing material	Nylon Plastic
Waterproof and dustproof grade	IP65
Working Temperature	-30 °C-- +70 °C
Storage Temperature	-40 °C-- +70 °C
Relative Humidity	5%—95%
Working Current	Av.Current:<123mA Standby:<32uA
Battery Capacity	Rechargeable lithium battery, 1800mAh, 3.7V, supports uploading

	About 600 positioning data (5 Minutes/Time).
GPS Antenna	Built-in
GSM Antenna	Built-in
SIM Micro SIM Card	Micro SIM Card
GSM module	Support 2G frequency band: GSM 850MHz/900MHz,DSC1800MHz,PCS1900MHz. Communication Mbps: GPRS data downstream traffic: Max 85.6kpbs GPRS data Upstream traffic: Max 85.6kpbs Coding format: CS-1、CS-2、CS-3 and CS-4 Embedded protocol: TCP
GPS module (Integrated module)	GPS and Beidou are both supported: Frequency Band: GPS L1 Frequency (1575.42MHz), BeiDou B1 Frequency (1561.10MHz); Sensitivity Track-167dBm Capture-149dBm Re-capture-161 dBm Cold start-148 dBm Hot start -155dBm Start speed: Hot start <1s Cold start 35s(typical value) Accuracy <10 meters

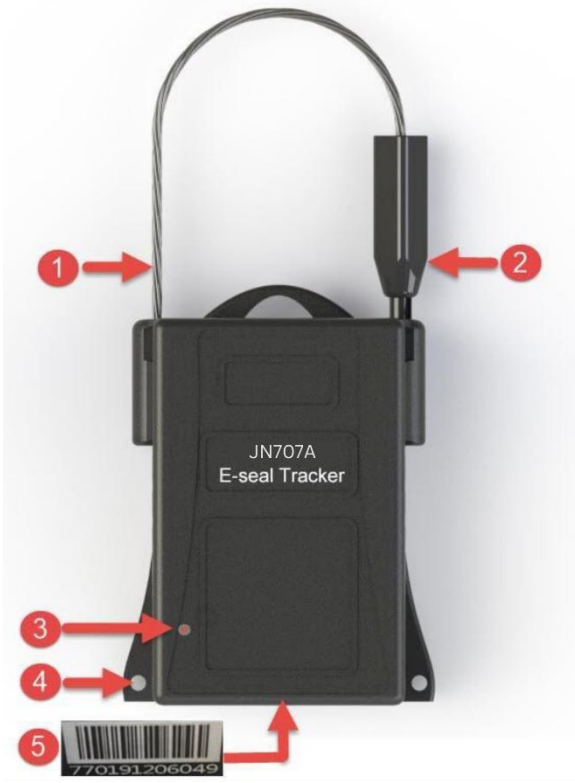
Standard and optional accessories

Name	Picture	Standard accessories	Optional accessories
Main unit		●	
Charging/configuration box (for charging and configuration parameters)			●
Micro USB cable (connect configuration box)			●
DC 5V 1A power adapter (for connecting the Micro USB data cable to charge the device battery)			●

Disposable lock rope (with anti-short function)			●
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Appearance

Front view



- ① Lock rope;
- ② Lock rope pencil tip;
- ③ LED work indicator;
- ④ Installation and fixing spare holes (for tying wire ties or screwing);
- ⑤ Device ID number barcode.

First Use

Device charging



Put the JN707A device into the base of the charging configuration box, switch the switch to "CHARGE", and connect the USB end of the charging/configuration box to the charger. At this time, the red light of the charging configuration is on, indicating that the device is charging;

Note:

It takes about 2 hours and 30 minutes to fully charge the battery. The green light is on to indicate full charge.

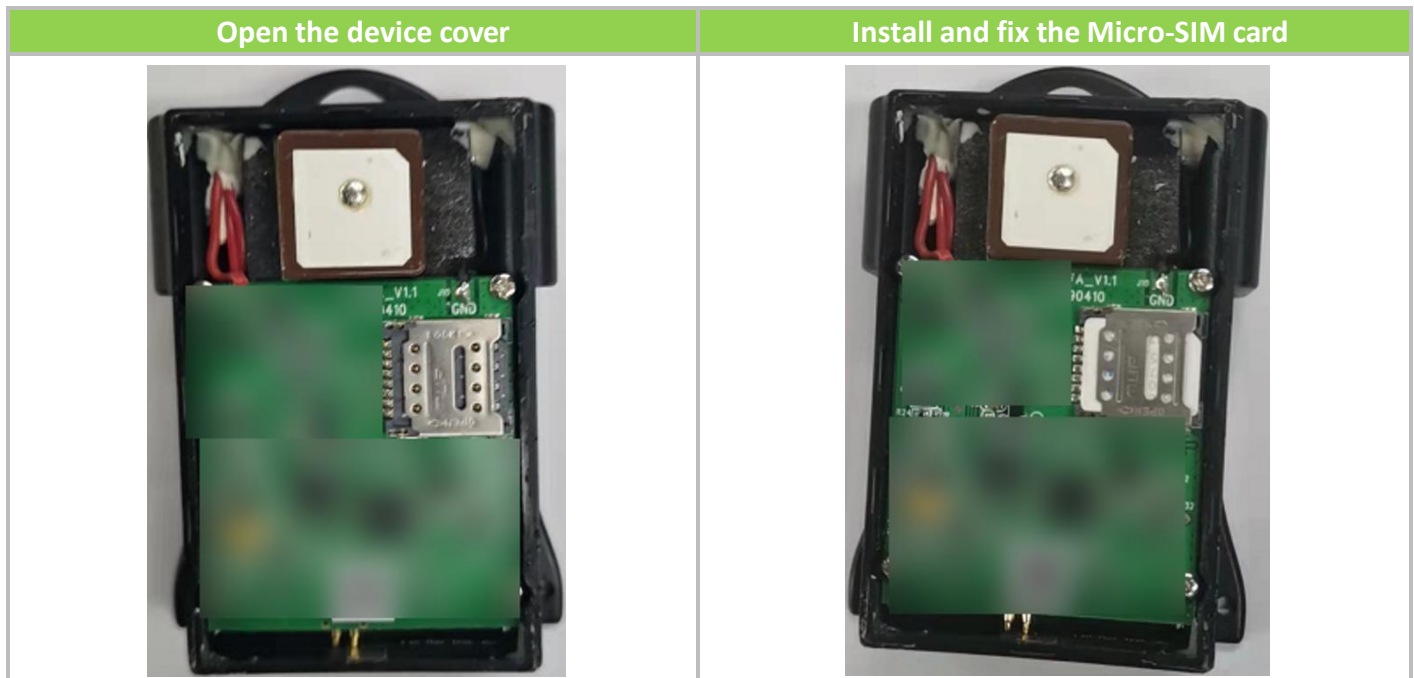
Install Micro-SIM card

(Ignore this section if SIM card inserted already)

Please confirm with the salesperson the cellular communication module used by the current device, if the current device uses a 2G communication module. Please communicate with the local mobile operator, and confirm whether the SIM card supports 2G data services and activates the GPRS Internet access function. After confirming, place the Micro-SIM card with activated GPRS network access function into the SIM card slot and lock it tightly.



Micro-SIM Card - Length * width (15*12mm)



Preparation before configuration

(If parameters have been configured, ignore this section)

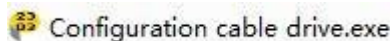
Connect the configuration cable to wake up the device

Wake up the device Note:

After the device wakes up, it can only work for 10 minutes. After 10 minutes, the device enters a sleep state, and the firmware version and device ID information cannot be read through the JN707A configuration software. At this point, unplug the device from the configuration socket again to wake up the device again.



Install the USB driver



The device USB configuration line tool, under normal circumstances, is used in the WIN10 operating system, and can be automatically configured without installing a driver;

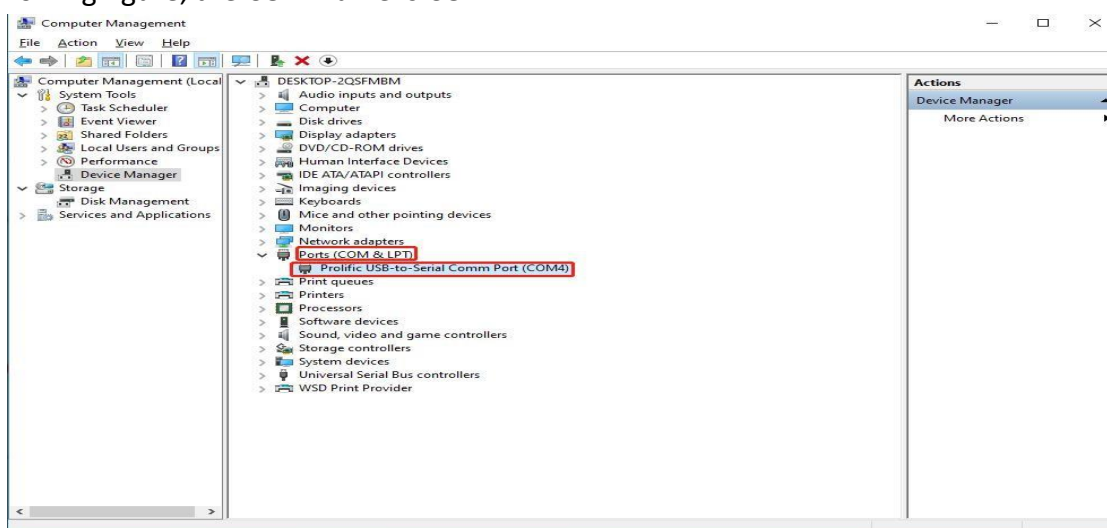
In the WIN 7 operating system and WIN11 operating system, the user needs to install the driver.

Note:

The USB driver of WIN7 system is different from that of WIN11 system. Drivers are available from sales or technical support.

Get the correct serial port number

After installing the correct USB driver, open the device management, in the COM and LPT items, you can see the following figure, the COM name is COM4.



Run the JN707A configuration software as an administrator

In WIN10 and WIN11 systems, the user double-clicks to open the "JN70A cfg1.0.12.exe" shortcut, and this JN707A configuration software will not be able to display the serial port number of the current computer on the COM port interface.

It is necessary to run the JN707A configuration software as an administrator to automatically obtain the serial port number of the current computer. The specific operation is as follows:



Initialize configuration device parameters

(If parameters have been configured, ignore this section)

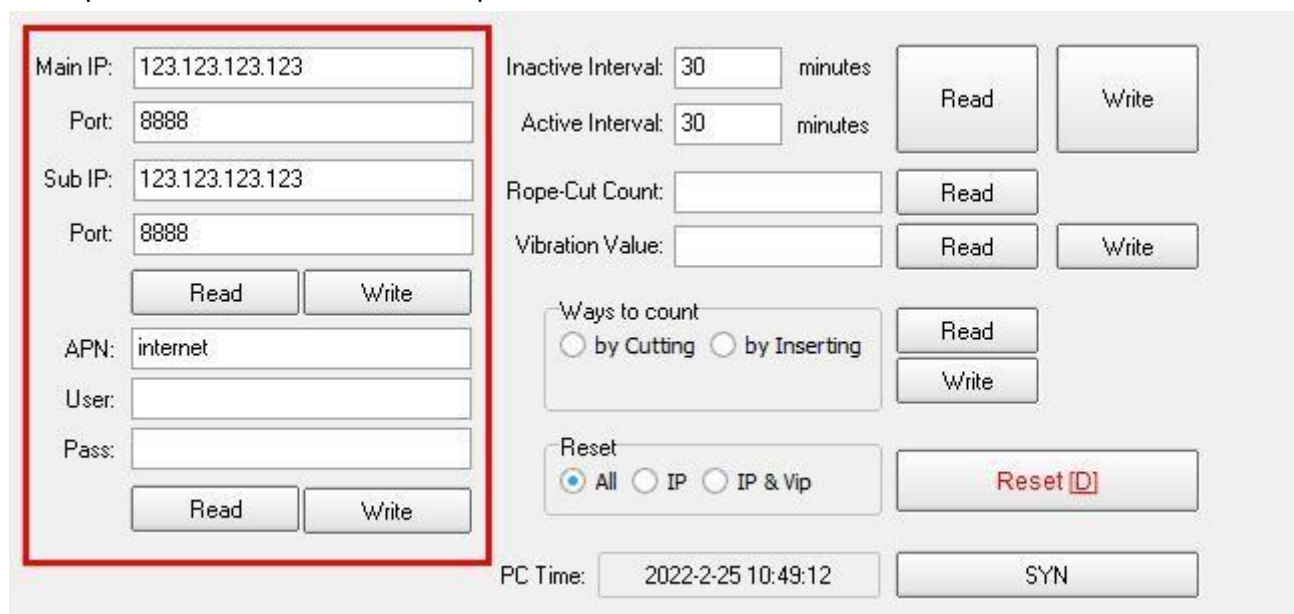
Open the configuration software, input the baud rate as 9600, click the Open button to connect the device, please select the correct serial port number.



Click the top right button  , Assuming the device is awake, the device ID, firmware version number can be read. If the device ID and firmware version cannot be obtained, it means that the communication between the current device and the computer is abnormal. Please check whether the device has been awakened. Refer to this article: [Connect the configuration cable to wake up the device.](#)



Please obtain the IP and port of the platform from sales or technical support. Obtain the APN and account password from the SIM card operator.



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Inactive Interval:	30	minutes	Read	Write
Active Interval:	30	minutes		

Inactiave Interval: Indicates the data reporting interval of the static device, 5~1440 minutes. Active

Interval: Indicates the data reporting interval of the exercise status device, 5~1440 minutes.

Definition of Indicator Status

LED Indicators	Status	Description
Red Led Working Status Indicator	Flashing every 1 second (slow flashing)	Not registered to connect to cellular network.
	Stable on	Registered and connected to cellular network, sending data.
	Constantly on	GSM module is not working yet
	turn off	The device is in sleep or deep sleep state.

Wake-up Methods

Wake-up source (wake-up method)	Description (prerequisite, the device is powered on and in sleep status)
RTC timing	Wake up at preset intervals, and go to sleep after uploading a piece of data.
Lock cord plug and wake up	It wakes up when the lock rope is detected, and enters sleep after uploading a piece of data.

Work Mode Description

Fixed interval mode

The device wakes up regularly according to the fixed time interval configured in the static/sports mode, reports a piece of data to the platform, and then enters the dormant state.

Refer to this article:[Initialize configuration device parameters](#) (Inactiave Interval and Active Interval).

Tracking mode

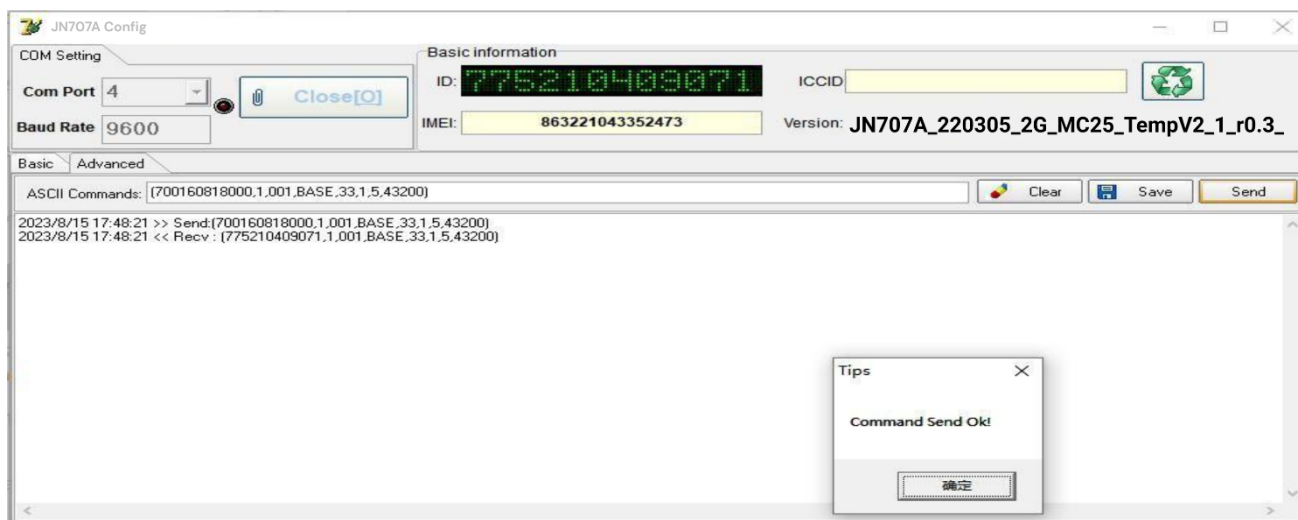
By issuing the **BASE,33** tracking command, the device can continue to work, and the device will still maintain the tracking mode even after restarting the device. Unless the customer actively turns off the tracking mode, the maximum tracking time can be set to 30 days.

Serial port software configuration method, as shown in the figure below.

Set track mode:

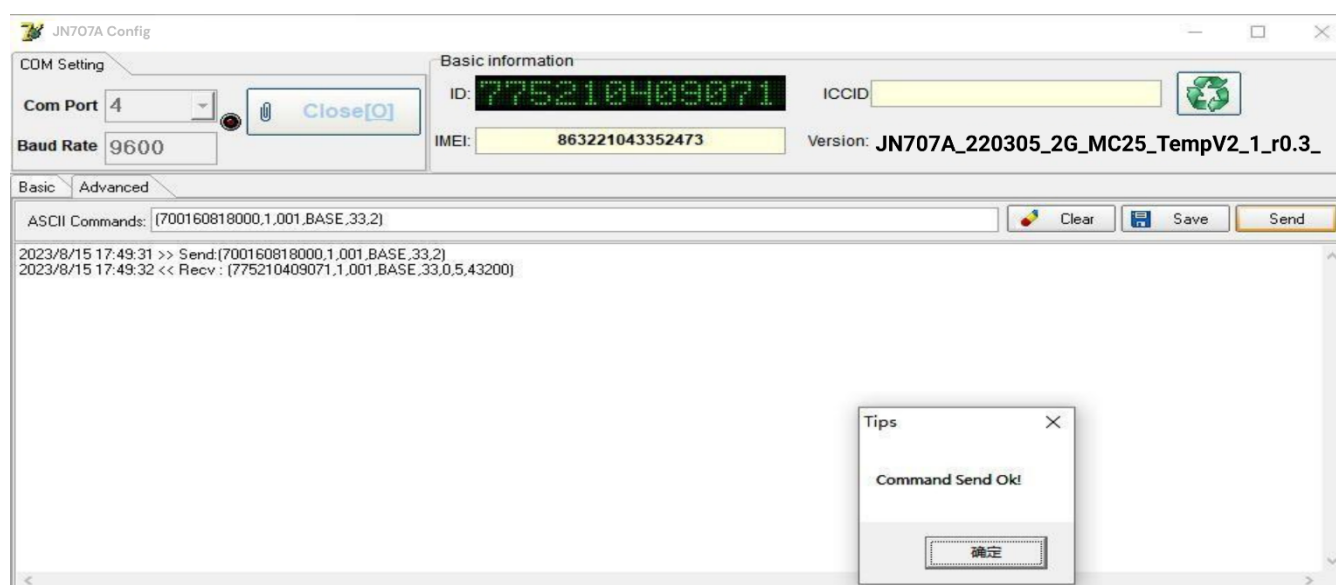
Example: Set 5 minutes/time tracking mode, and the tracking duration is 43200 minutes (30 days)

Send Command:(700160818000,1,001,BASE,33,1,5,43200).



Untrack mode:

Send Command:(700160818000,1,001,BASE,33,2)



Working Hours

Working interval	Working Hours
5 Minutes/Time (288 pieces of data per day)	About 2 days
0.5 Hours/Time (48 pieces of data per day)	About 9 days
1 Hours/Time (24 pieces of data per day)	About 17 days
2 Hours/Time (12pieces of data per day)	About 34 days
4 Hours/Time (6 pieces of data per day)	About 64 days
6 Hours/Time (4pieces of data per day)	About 90 days
8 Hours/Time (3pieces of data per day)	About 110 days
12 Hours/Time (2 pieces of data per day)	About 150 days
24 Hours/Time (1pieces of data per day)	About 240 days
The working hours generates based on the indoor test under normal temperature, without SMS wake-up, it is for reference only. During the actual use, there will be differences due to differences in ambient temperature, satellite positioning, and working modes. Please take the working time in actual use as final.	

Seal and Unseal

Seal

Each JN707A device comes standard with a lock rope, which is used to lock the lock rope to lock the container door, trailer door, container door and any assets you need to lock.

When the two ends of the lock rope are inserted into the device, the LED lights on the front of the device will flash, which means that the seal is successfully locked. At this time, the device is automatically activated and begins to report the location, lock status and other information to the set platform.

Note:

In order for the device to better receive positioning signals, when sealing, please place the front of the device facing outwards, and insert the pencil end on the lock rope into the lock hole.

Sealing and locking operation--the front of the device is facing outward (the side where the GPS antenna receives the signal).	Seal operation icon
	

Unseal

Note: The device is in the sealed state. Due to the special design of JN707A, the user can no longer pull out the lock rope directly. The only way to unseal it is to cut the lock rope.

Use steel bar cutters to cut the lock lanyard. After unpacking, the LED light on the front of the device will flash, and the device will be automatically activated at this time, and begin to report information such as location and lock status to the set platform.

Unseal tool	Unseal operation icon
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7" Steel Bar Scissors Diagonal Nose Pliers.
Can cut: 2.0mm steel rod, 3.0mm steel cable.



Jainam Assets Management Platform

System platform account information

When using it for the first time, the user needs to contact the salesperson to obtain the platform login account/password.

Log in to the software platform to manage assets

Log in to the web link: <http://cloud.assetscontrols.com:8090/>

After logging in to the platform, please refer to the platform operation instructions to complete basic operations such as registering device information, real-time tracking, application/unblocking status, and track playback.

The picture below is: real-time tracking interface

FAQ

Question 1: How long can the battery last?

Answer: The battery life of the JN707C electronic lead seal tracker is calculated according to the number of data transmissions. The device supports at least 1100 location data reports. If 12 location data need to be reported every day, the battery can be used for about 34 days.

Question 2: Does the device support the function of sending instructions by SMS?

Answer: Yes, the premise is that the SIM card used in the device needs to support the SMS service.

Question 3: Is the equipment lock cord reusable?

Answer: It cannot be reused. Every time you unseal the device, you need to cut the lock rope. The lock rope is for one-time use.

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