

Intelligent Lock Tracker



Index	Vehicle No	Unit ID	Date Time	Location	Speed (K/H)	Direction	Lock stat	Open Back	Battery
1	7560504097	7560504097	2017-02-17 16:18:04	3	0.0	North	Lock	Open	Charge
2	7560504237	7560504237	2017-01-08 06:38:28	082	3.3	NorthEast	Lock	Close	Charge
3	7560503755	7560503755	2016-12-07 07:01:19	082	0.0	North	Lock	Open	88%

Information available:

- Position of the container is provided by the GPS function
- Door open/closed status/alarm.
- Battery charge level/ Battery level status.
- Lock rope cut alarm.
- Back cover open alarm.
- Four monitoring LEDs for GPS/GSM/Charing status.
- Temperature; mostly significant for temperature sensitive shipments.

Advanced Tracking and Remote Monitoring for High Value Mobile Assets

Intelligent Remote GPS Lock LOCK-701 is a sophisticated tracking and asset management applications, provides enhanced functionality, easy installation, and cates to a wide range of applications.

LOCK-701 intelligent GPS lock can greatly reduce the financial losses incurred by the difficulty in tracking valuable equipment such as trailers, containers, construction machines and other valuable mobile and fixed assets.

The unit are equipped with improved IP67 enclosure and dual tampering detection mechanism, with a durable and long-life battery, as well as IP67 waterproof casing, without direct access to a power supply casing,without direct access to a power supply and ongoing maintenance, which enable this unit one of the best choice for valuable mobile assets monitoring.



Key Features of the system:

- A standalone unit operated by rechargeable batteries.
- Fast and easy installation by attaching the unit to the container door frame with a electronic lock.
- **Damage Prevention:** There will be alert if someone cut the lock rope or open the back case cover.
- A flexible system that can be fully configured to meet customer requirements, with regards to information, times and significant events in real time:
 - Examples of real time alerts include: door open/closed, temperature high/low, battery charge level, location status and any combination of these.
- Geo-fencing function raises notifications when a container has entered or left a location.
- The built-in accelerometer keeps you informed about changes in movement.
- When the unit is out of coverage, all location and sensor information is saved to the memory and later transmitted once the unit is back in cellular coverage.

A web based system requiring a simple and easy installation process, we can provide multiple monitoring platform, which include web based tracking software and APP(IOS/Android)



Applications

Intelligent Electronic Lock can be used in a wide range of applications for the protection of devices and property, without the need for any special preparation, wiring or installation. Its cellular communication abilities, along with its embedded GPS technology make it ideal for remote locations or for use with transporting goods and valuable equipment.

It allows you to observe and reach your goods from a distance. It enables you to have control on what is happening with your cargo- as and when it happens, to overcome issues in real time if needed, it's made most reliable and efficient delivery.

Here are just a few examples of its many unique applications:

Cargo Transportation

This application can track high-value cargo throughout its transport cycle, while alerting you to predefined events that warrant your attention. Intelligent Electronic LOCK-701 will monitor your vehicle, truck, van, container or trailer, as it moves from origin to destination, regardless of distance or the transportation method.

Security Companies

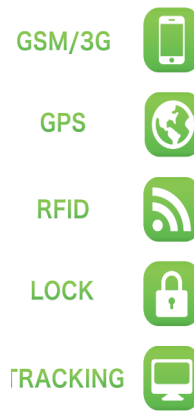
The top requirement for security is control and continuous coverage. Intelligent Electronic LOCK-701 is designed to provide day and night safeguarding of your assets, while keeping you informed - no matter where you or the assets are, delivering an added level of security to your business.

Custom Operations

The security of customs operations can be complex and challenging due to risk of tampering, while a route and during the inspection cycle. Based on the knowledge that your lock will remain closed Intelligent Electronic LOCK-701 will assist in speeding-up the clearance of your goods and allow the examination process to run smoothly.

Commercial / Retail

The movement and storage of your materials and inventory should be key priority. Incorporate Intelligent Electronic LOCK-701 into your supply-chain strategy to better manage the flow of your goods from border to border and to make certain that they have not been accessed. Intelligent Electronic Lock JT701 can be regarded as your gatekeeper from point of origin and until delivery to the consumer.



Benefits

Maximum Control

Intelligent Electronic LOCK-701 will supervise all openings and closings and informs you of all entries and exits to and from defined areas. Its unique design will enable 24/7 protection of your cargo efficiently.

Real-time Monitoring

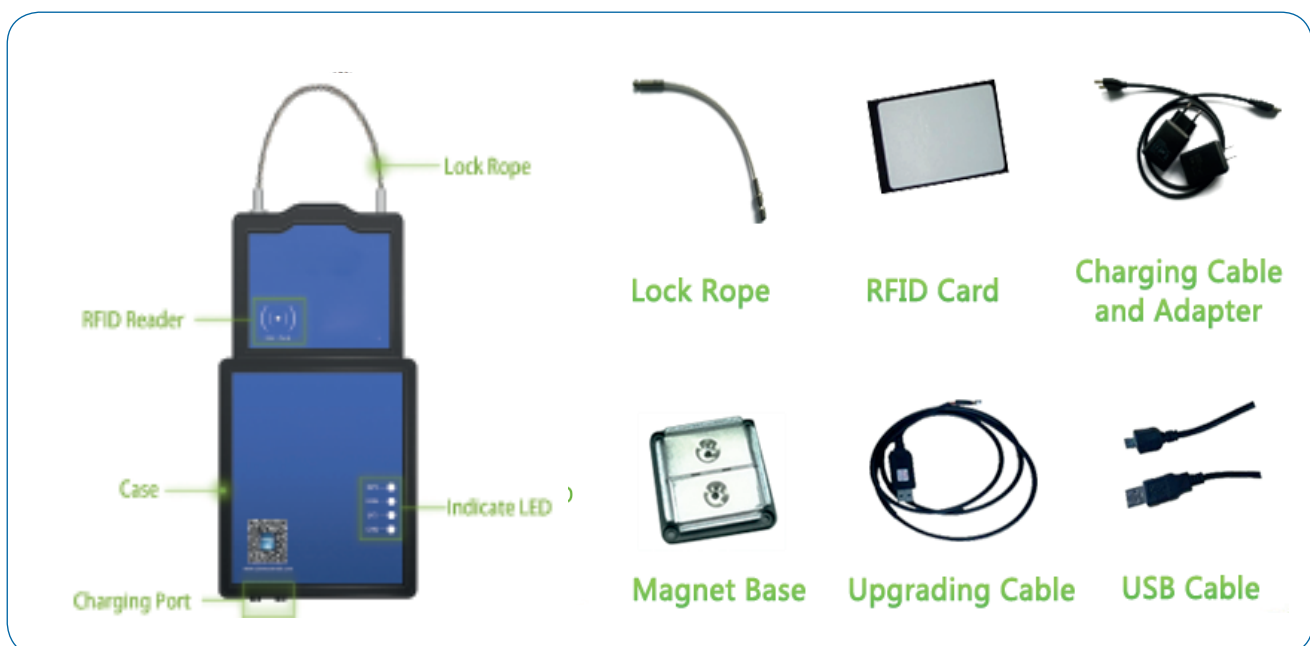
With Intelligent Electronic LOCK-701, you are consistently informed about the status of your property or valuables. Real time information is at your fingertips at all times, including any irregularities or breaches, so you can decide when your attention is warranted.

Improved Delivery Productivity

With GPS and RFID combination, LOCK-701 will make your assets information available in the palm of your control, in addition, will increase delivery operation efficiency and satisfy your customers needs.

Secure Your Assets

A robust high security padlock for enhanced protection and durability. Intelligent Electronic LOCK-701 is designed to protect your company from intruders and thus is capable of withstanding physical breakage.





Main Specifications

Supply	Voltage	5V
Environmental Condition	Operational Temperature	-20°C -- +60°C
	Storage Temperature	-40°C -- +80°C
	Operating Humidity	5--99%
Protection Rating		IP67
Physical Specification	Dimensions	195*114*37mm
	Weight	700g(with standard accessories)
Cellular Communication	GSM/GPRS default	Quad band (850,900,1800,1900)
	Optional Modems	UMTS900/2100, UMTS850/1900
	Antenna type	Built-in(concealed)
	Data channels	SMS&TCP/IP
	Protocol	Propriety-encrypted
Location	Type	GPS
	TTF	2 sec (hot start)
	Positioning Accuracy	10m CEP (50%) Velocity: 0.2m/s (50%)
	Antenna type	Built-in(concealed)
CUP	Static RAM	128KB
	Nonvolatile memory	34KB
	Flash memory	2048KB
Access Port	Type	USB
Battery	Type	LI-LON
	Capacity	15000MAH
Power consumption	Sleep/Idle	0.05MAH
	GPS only	75MAH
	GPRS only	100MAH
	GPS and GPRS	165MAH
Padlock Materials	Shell	Hardened plastic black plated
	Core	Solid brass
	Shackle	304 stainless steel



Container



Trailer



Van Truck

Key Features

Management

- Programmable Events: Events can be defined to both transmit and act on complex events. For example, you'll be alerted if the lock rope is cut.
- Perimeter based alerts: Geo-fencing alerts when a container is entering/leaving a specified designated area at a specified time.
- Realtime Tracking: Automatic support for container tracking at specified time, without sending additional commands.
- Remote Unlock: The unit can be unlocked by sending SMS or GPRS commands, or swiping RFID card.

Communication

- Cellular Connectivity: Support for GSM networks (GPRS or optional 3G), while using both the SMS channel and the data channel. Supported bands are 850/900/1800/1900 MHz. Optional support for CDMA and HSDPA networks.
- TCP Connectivity: Support for the GPRS/1x TCP/IP networks by either staying online at all times, or coming online when a transmission is initiated.

- Dual Sim Support: The unit can support 2 SIM, the network will be switched to another if the current one failed automatically, it will save roaming data cost when making cross boarder delivery.

Over-The-Air commands

- Firmware Upgrade: Over the air firmware upgrade to apply new features to already-installed units.

Container Protection

- Door monitoring: Detects and alerts about opening/closing of the container's door.

Miscellaneous

- Internal Logging: Whenever a transmission fails to be sent, the entire message is saved to the memory for later transmission. 25000 complete messages including statuses can be recorded this way.

Location

- GPS Receiver: Built in GPS receiver connected to the unit, allowing real-time tracking and on-board location-based analysis.
- Last Location Saving: Saving of the container's last position, in case of going out of GPS coverage.