



INOTECHAS



SMART GPS LOCK



Worldwide location identification



CellLocate®



Movement tracking



Affordable



Cross-platform support



Well designed reliable electronics



High security key



Wireless charging



Long battery life



Weatherproof



Worldwide GSM network compatible



Tampering, cutting, and other physical damage alarms



Remote battery status information



Custom alerts



Heat/fire alarm



Remote location security



Marine transport



Road transport



Rail transport



Shipping containers

Functionality

Trackable GPS padlock is a one-stop solution for securing, monitoring and tracking for both mobile and stationary property. Padlock provides constant location and 24/7 online access to status of your system protected by our service. It is an independent IoT device which is able to access the internet on its own and have accurate location on any part of the globe. Padlock logs lock physical status, internal battery status, charging status and tampering alarms with accurate time and location of the lock. The lock will report any change in status automatically, it can also be accessed at any time via TCP or SMS command. Any tampering such as burning, smashing, cutting or signal jamming of the lock are reported as alarm, with time and location of event. Tracking mode reporting location periodically is also available.

This intelligent padlock does not require any external power supply or installation. The lock has internal battery which can be charged wirelessly with charging pad. The lock will report battery change with every status change and will generate low-battery alarm when battery goes below 30%.

Technologies

For the most accurate location of the lock cutting edge GNSS (GPS, Galileo, GLONASS, BeiDou) receiver with industry leading -167dBm navigation sensitivity is used. In case of thefts attempt with a use of GPS jammer the lock has integrated jammer detector, that will generate alarm to user interface.

In pursuit to increase the accuracy and speed of GPS - we worked extensively with our partner u-blox™. This cooperation allowed us to integrate the lock into AssistNow™ servers - a technology which allows to combine GNSS and network information to reach peak performance in locating the coordinate position.

Together with AssistNow Online™ the AssistNow Offline™ allows to get location of the lock even in the most extreme circumstances. If GPS location is unavailable (example: the lock is placed in metal container), the CellLocate™ technology is used, this allows to get the fix of lock location under any circumstances.

The lock also used nested design GSM 2G and 3G/GPRS/UMTS/HSPA modems allowing to work with all network providers all around the world. The lock can be ordered to support worldwide range of 800/850/900/1900/2100 bands, this allows the function worldwide. The lock is fully compliant with 2G/3G networks. The body of the lock is water proofed making the lock IP-67 compliant and tamper resistant. The lock has integrated accelerometer that continuously monitors mechanical strain on the lock and can detect the lock being moved or tampered with. The lock has optional audio signal output available for user interface.

Technical Specifications

GSM/GPRS	Penta band GSM, GPRS Uplink 40kbps / Downlink 80kbps GSM internal antenna, Support command list over SMS/GPRS Support FW/SW update FOTA/ROTA
GNSS module	GPS / GLONASS / BeiDou /Galileo support, 72-channel -169 dBm navigation sensitivity, GNSS internal chip antenna, Anti jamming (Active CW detection and removal), AGPS support
Coordinate determination	AssistNow™, CellLocate™, GNSS
Wireless Internal battery charger	Qi Wireless Charger 1 A a full battery charge time 4h Operation peak average 0,7 W
Power consumption	Deep sleep mode <1.5 mW (up to six month, depending on the data transmission frequency)
Accelerometer	High precision, 16 bit resolution, 3 axis digital accelerometer for motion reporting
Speaker	Internal 4KHz dB min. 60@10cm
Interface	1 digital mini USB port Bluetooth 4.0 BLE Qi Wireless charger nano SIM holder
Battery	Internall LiPO 3.7V batery 2500mAh
Environmental specifications	Operating temperature -20° to 85°C IP67 ingress protection
Body	IP67 Waterproof housing, UV resistance ABS

SMART GPS LOCK

Designed and manufactured by:



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