



# eLOCK**GOLD**

Upgrade cargo traceability and fleet management

Protection – Control – Identification – Tracking – RFID Solutions

# *e-LOCK GOLD*

*an improved user experience*



**eLOCK GOLD** is an advanced electronic reusable security lock, to control position and status of trucks and containers, either from fixed station or from mobile devices (smart phone and tablet).

**eLOCK GOLD** sends an SMS alert any time the lock registers an event of opening/closure, tampering attempt (e.g. the cable is being cut), battery is low. Alert message includes ID, event type, GPS coordinates for the place the event took place at, and time stamp.

Real time alerting and recording of any access to the goods transported or stored: opening, closing or tampering (device ID, type of event, date and time).

Long-lasting battery, rechargeable via USB and easy to replace by the user.

GPS tracking for location, control, geofencing

# *e-LOCK GOLD*

Designed as evolution of LeghornGroup e-LOCK GOLD product, in addition to the existing model ability, the product offers the possibility to obtain logistic identification information in real time.

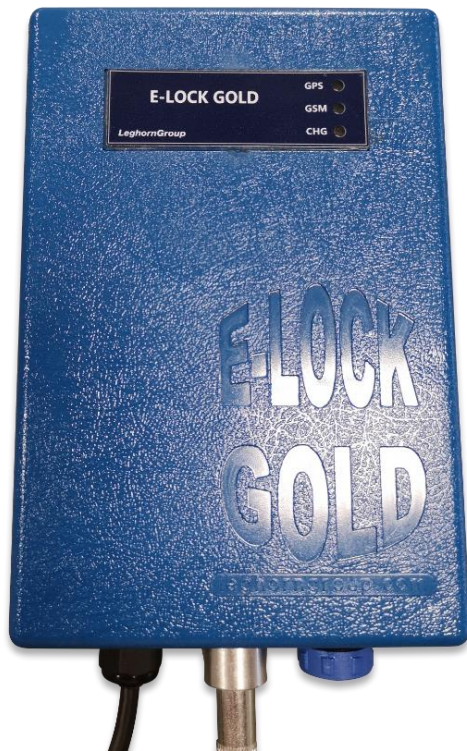
- Completely renewed plastic case to strengthen its resistance to mechanical shocks, dust and water (IP66).
- Lithium battery, rechargeable via USB, of longer duration and replaceable by the user.
- Facilitated insertion of SIM card.
- Possibility to check the device functionalities thanks to the use of three front and multicoloured LEDs which report the user the battery status and GPS/GPRS communications.
- The employment of a last generation GPS module that allows to consistently reduce warm up periods and detect/track indoor positions (ex. in a warehouse).
- Possibility to download the recorded event log (more than 3500) from the device memory, throughout USB interface.
- Easier connection to PC.



# How does e-LOCK GOLD work?

Thanks to its advanced technical features, **eLOCK GOLD** can send an SMS to a set of selected numbers or communicate via web platform if an event occurs and allows you to enable features of:

- **MONITORING**, thanks to its ability to communicate in real-time with IT systems for logistics and transport, it informs about the complete data on fleets and individual vehicles
- **ANALYSIS** of the data for the entire fleet relating to individual drivers, with the possibility of intervention and planning of activities..
- **CONTROL**, through real-time access to data on vehicles and drivers, and to the position marked on the map by using GPS tracking.



Lista Eventi/Azioni

Eprojetech Srl

Data/Ora Inizio: 01/10/2016 00:00 Data/Ora Fine: 09/10/2016 23:59

| Evento/Azione            | Ora        | Indirizzo                        | Evento/Azione | Ora | Indirizzo | Durata | Km | Kmh |
|--------------------------|------------|----------------------------------|---------------|-----|-----------|--------|----|-----|
| Elock-B                  | 04/10/2016 |                                  |               |     |           |        |    |     |
| Cable Open               | 13.41.17   | 80, Città del Kuwait             |               |     |           |        |    |     |
| Cable Close              | 13.42.03   | 80, Città del Kuwait             |               |     |           |        |    |     |
| Cable Open               | 13.43.41   | 80, Città del Kuwait             |               |     |           |        |    |     |
| Button                   | 13.45.09   | 80, Città del Kuwait             |               |     |           |        |    |     |
| Cable Open               | 13.47.04   | 80, Città del Kuwait             |               |     |           |        |    |     |
| Cable Close              | 13.48.58   | 80, Città del Kuwait             |               |     |           |        |    |     |
| Cable Open               | 13.50.10   | 80, Città del Kuwait             |               |     |           |        |    |     |
| Cable Close + Button     | 14.53.34   | 80, Città del Kuwait             |               |     |           |        |    |     |
| Cable Open + Cable Close | 15.14.40   | 80, Città del Kuwait             |               |     |           |        |    |     |
| Cable Open               | 16.12.27   | 58 Street                        |               |     |           |        |    |     |
| Cable Close              | 16.18.26   | 58 Street                        |               |     |           |        |    |     |
| Timer                    | 20.18.36   | ????? ??? ?????, 3000 ?????????? |               |     |           |        |    |     |
|                          |            | ???? 12                          |               |     |           |        |    |     |
| Elock-B                  | 05/10/2016 |                                  |               |     |           |        |    |     |
| Timer                    | 00.22.57   | ???? 2, 3000 ??????????, 7777 12 |               |     |           |        |    |     |
| Timer                    | 04.25.45   | ???? 777 ?????, 3000 ??????????  |               |     |           |        |    |     |
|                          |            | ???? 45                          |               |     |           |        |    |     |

Used together with a web-based platform for fleet tracking and management, it is **a powerful tool to monitor vehicles and goods**



# Technical specifications

- Dimension mm 106,6 X 156,1 X 44,5
  - Material High-resistant polycarbonate
  - Power supply 5 VDC
  - Working voltage 3,3 VDC
  - Average current 80 mA
  - Current in standby mode: 15 uA
  - Internal battery 4,2 VDC 6600 mAh - Lithium battery, rechargeable via USB
  - Working hours
    - Two data per day: 4 years
    - Ten data per day: 1 years
    - Continuous every 10 minutes : 10 days
    - Stand by > 10 years
  - CPU Microcontroller System on Chip Cypress ARM Cortex-M3
  - GSM GSM/GPRS module : Quectel M95
  - Frequency band Quad-band: GSM850, EGSM900, DCS1800, PCS1900 MHz
  - Antenna Internal antenna
  - GPS Compact GNSS Module, U-blox SAM-M8Q-0-10 GPS + GLONASS
  - Positioning accuracy 2,5 m
  - GPS sensitivity 165dBm@Tracking, -158dBm@Acquisition,  
-146dBm@ColdStart , -155dBm@HotStart
- 
- Positioning time Cold Start <26s; Hot Start <1s
  - Satellite receiving channel: 72 channels
  - Antenna embedded patch antenna
  - LED indicator : for GSM / GPS status and battery charge
  - Operating temperature -15° C to 60° C
  - Storage temperature -20° C to 60° C
  - Cable material insulated plastics, anti wringing, anti cutter
  - Cable length 75 cm
  - Closure pin spring blocking system
  - Security Possibility to block the system by using seals
  - Log memory Last 3650 data recorded
  - Data program /Data download/Firmware upgrade: via USB

# *Field of action of LeghornGroup*



**PROTEZIONE:** we can protect your goods and assets with security seals and various products for tamper protection. The company can create bespoke, technical solutions to meet client's requirements.



**CONTROLLO:** we ensure goods and people can be monitored using security products and integrated complete hardware and software solutions that allow the operator to monitor and intervene in real time, even remotely.



**IDENTIFICAZIONE:** LeghornGroup's understanding of authentication along with their innovative technical products and solutions allow users to uniquely and securely identify, goods, vehicles, containers, animals and people.



**TRACCIABILITÀ:** LeghornGroup's real time GPS tracking devices allow users to monitor location, status and movements of vehicles and people.



“ Being up to the problem has always been our ambition.  
Let our customers understand that their problems become  
IMMEDIATELY our own problems: this is one of the keys to success”.

**Luciano Grapsa**  
**Presidente** LeghornGroup

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