



BATTERY	LINK	LOCATION
<ul style="list-style-type: none"> <li>Full battery 100% - 60%</li> <li>Half battery 59% - 40%</li> <li>Low battery 39% - 0%</li> <li>Charging battery</li> </ul>	<ul style="list-style-type: none"> <li>4G</li> <li>Home Unit</li> <li>4G+ Home unit</li> </ul>	<ul style="list-style-type: none"> <li>GPS</li> <li>No GPS</li> </ul>

## Product Overview

Many prison around the world is facing too many prisoners. The operation cost is one of the big matter as well.

Forth Corporation identified this pressing issue early on and invented "Forth Taglock EM" as a smart solution.

"Forth Taglock EM" is a tracking device made for prisoners that have been pardoned and those with lower ranked crimes. These prisoners no longer have to be present in the main prison. They are allowed to leave while wearing this tracking device.

"Forth Taglock EM" works with GPS, 3G, and RF . The device will be link with home unit by RF frequency . The device has an efficient tracking system that quickly reports to the detention officers when the prisoners are out of bound.

All in all, this is the tracking device that will solve prison issue and a solution for the future.

## Feature

- Charger
  - Auto Power Rating 100-240 V
  - 5V 1.5A
  - Clip connector type with USB-C
  - Cable length 1.5 m
- Battery
  - Internal 1880mAh
  - Power Bank 10000 mAh
  - More than 25 hours (data sent to Server every 2 minutes)
- Water & dirt resistance
  - Immerse in water maximum 5 meters (IP68)
  - Dirt resistance
- The Monitoring center can make alert to prisoner by beeper and vibrator on the device if needed. Prisoner can press the button to acknowledge.
- Tamper proof, tamper resistance and Tamper detect
- Heat resistance up to 0-85 C
- Configurable restricted area for prisoner
- Overall weight 160 g
- Alarm
  - Exit restricted area.
  - Low battery
  - Low signals
  - Tamper detected
  - Control center requested alarm
- Forth data map base and tracking system
- Encryption AES 128 bit connect to server

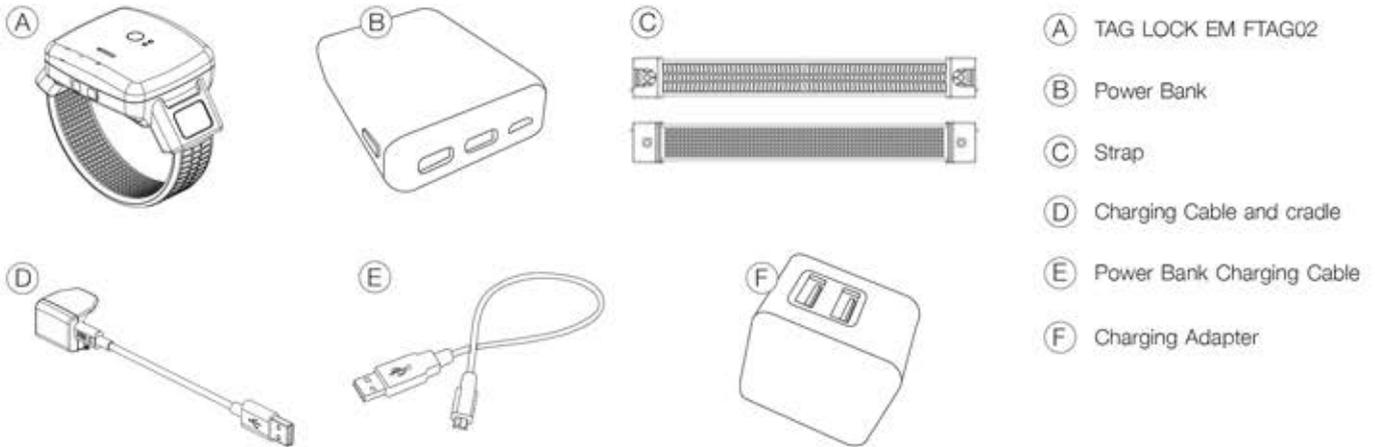
## Technical Specifications

- Communications
  - 4G (Outdoor):
    - 4G (E-GSM/DCS) 900/1800, 4G (HSPA/UMTS) 900/2100
  - RF-UHF (Home):
    - 433MHz Proprietary protocol with encryption.
    - <10 dBm Transmitter
    - 105dBm Sensitivity (Use with home unit)
- Navigation
  - GNSS:
    - 3-Concurrent with Assisted GNSS (GPS, GLONASS, Galileo, BeiDou)
  - Indoor navigation
    - Cell site IDs,LBS
- Power
  - Li-ion battery
    - 1880mAh 3.6V
    - Charging time 2 Hrs
- Alarms and acknowledge
  - LEDs:
    - 4G/Home unit signal
    - GNSS signal
    - Battery signal
  - Vibrate Beep:
    - Out of restricted area alarm.
    - Battery level alarm.
    - GNSS location update needed alarm.
    - Control center requested alarm.
  - Button:
    - SOS/Acknowledge
- Memory
  - Internal Memory 2 MB
  - All Record
    - GPS Signal Active/Lost
    - Communication Active/Lost



## Standard Marks





### LED Status

Usually, status will not show but when user need to check the device just click on the button 1 time and LED will show for 5 seconds.



- |   |  |                                       |
|---|--|---------------------------------------|
| ① | <br><b>BATTERY</b> | Showing battery level                 |
|   | Green  | Full battery 100% - 60%               |
|   | Orange   | Half battery 59% - 40%                |
|   | Red  | Low battery 39% - 0%                  |
|   | Green-Red  | Battery charging                      |
| ② | <br><b>LINK</b>   | Showing the device connect to server. |
|   | Green  | Able to connect to server.            |
|   | Light-off  | Unable to connect to server.          |
| ③ | <br><b>GPS</b>    | Showing the device connect to GPS.    |
|   | Green  | Able to connect to GPS.               |
|   | Red  | Unable to connect to GPS.             |

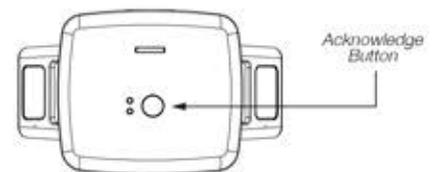
### Charging

Snap the cradle with charging cable into the port which is located at the bottom end of the device to start charging. While it's charging, the LED light will be shown as number ①



### Acknowledge Button

When the device alarms and vibrates, user must press the acknowledge button for getting the notification.



### Conditions

- All of devices belong to Forth Corporation PCL, Do not break, change or modify.
- Keep sticker completely good condition in the entire time of using this device. Do not tear, peel, scratch, rub, modify or cover.



- In case of breaking any rules or conditions, the device will alarm to inform the prisoner such as access restricted area, out of controlled area, or exceed the speed limit.

### Note

- For your safety and convenience, please use the power bank for mainly charging the device. (Also be able to directly use the adapter)
- In case of band have been cut off or try to break, the device will report to server and the prisoner will be charge for damage.
- When the battery run low, the device will alarm the user and server so the user must always charge battery over the average.
- The device can immerse in water maximum 1.5 meters and can be wear daily use.
- When the user hear the alarm, please push once on the button for report.
- The device can be updated and configured by online network so when this device is blinking red LED means the user have to wait until the system is completely updated and ready to use it again.