inGeo

a small and simple tracking device

User Guide

QUALCOMM

QUALCOMM Proprietary

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inGeo

Overview

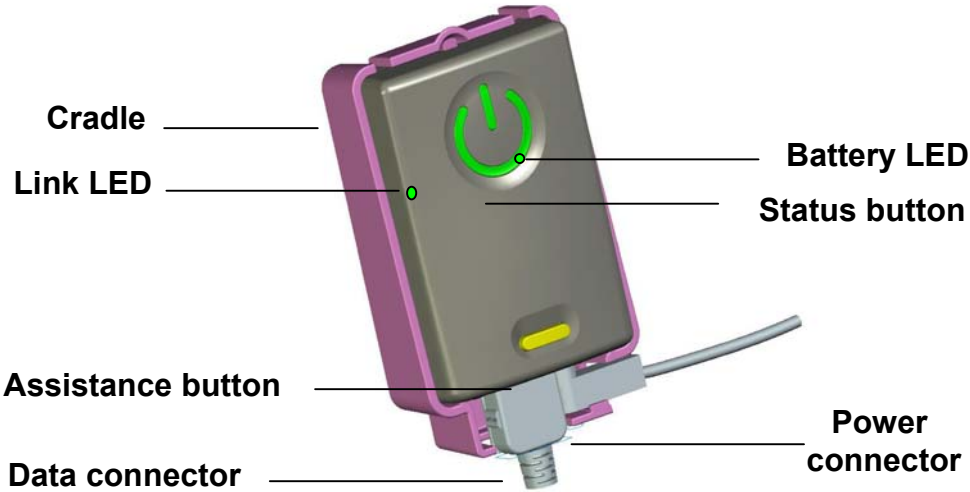
The inGeo is a small and simple tracking device, based on gpsOne technology and complementary control-server technology for accurate, real-time tracking.
It is fully compatible with CDMA2000 1X standard, its design is optimized to minimal cost, minimum size, maximum battery life and superb positioning location performance.

Features

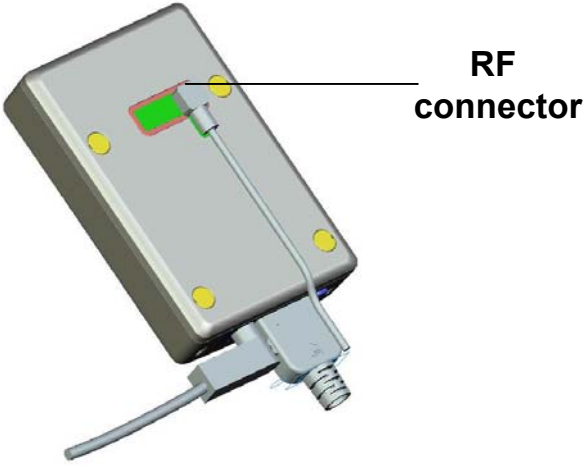
- Small size
- Simplified Operation
- Intelligent Hibernation
- Extended battery life
- Assistance Request Button
- Over the air configuration and monitoring
- Built-in Geofence capabilities

Hibernation

Hibernation is an innovative concept in the cellular world.
It extends battery life beyond normal cellular phone standby time. Hibernation technology comprises of several innovative modes of battery saving. Smart mechanism selects the best fit mode based on future activities of the device.


Cradle
Link LED
Battery LED
Status button
Assistance button
Power connector
Data connector

Rear View

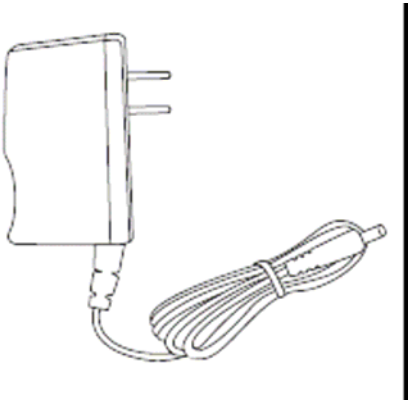

RF connector

inGeo Kit

The inGeo kit includes:

inGeo Device

AC Power Adapter



Powering Up / Down

Before first time usage, connect the device to the AC power adapter for at least 12 hours for full battery charging.

Powering Up

To turn ON the device:

1. **Press the *Status Pushbutton* for one second.**

2. **The *Battery* and *Link LEDs* will blink in the following color sequence: red → orange → green**

Powering Down

To turn OFF the device, perform the following steps:

1. **Press the *Status Pushbutton* for three seconds.**

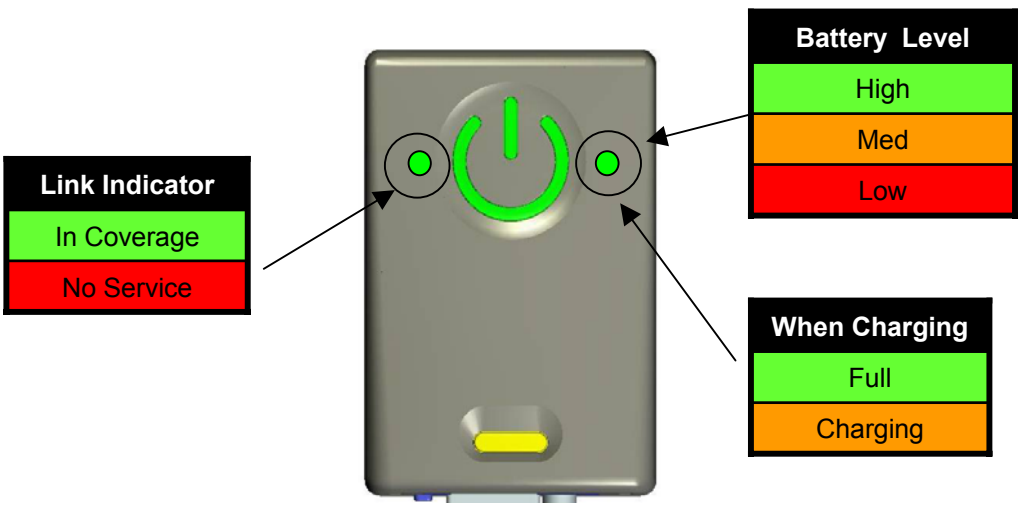
2. **The *Battery* and *Link LEDs* will blink in the following color sequence: green → orange → red**

Status Operation

When the device is ON, the Status Pushbutton provides battery and cellular service indications.

1. **Press the *Status Pushbutton* momentarily.**

2. **The *Battery and Link LEDs* will be illuminated for five seconds according to the following legend:**

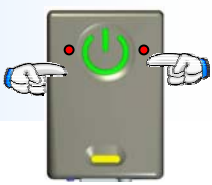


Assistance Operation

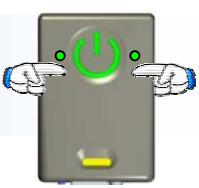
In order to activate the Assistance mode

1. **Press the *Assistance Pushbutton* for one second.**

2. **The *Battery and Link LEDs* will blink in red until the initial assistance request is acknowledged.**

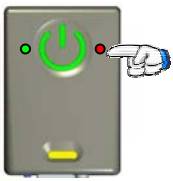


3. ***The Battery and Link LEDs* will blink in green for two minutes once assistance request was acknowledged.**



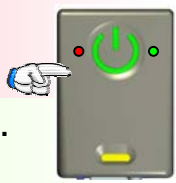
Troubleshooting

Battery Status Indicato is red



Charge the device

Link Status Indicator is red



You are probably located in a no-service area.

The device doesn't respond to *Status/Assistance Pushbutton* Pressing.

The device might be turned OFF,
or the battery might be empty.
Turn On the device or charge battery if required.
If problem remains, call customer service.

Specifications

Form Factor / Weight

Dimensions: 62 mm x 99 mm x 28 mm

Weight - 70 grams (including battery)

Interfaces

Status & Assistance pushbutton

UI - LEDs (2)

Battery status

Link Status

Electrical

Battery: 3.7, 700mAh, Li-ion / Li-Polymer

External Power: 4.7V DC / 1000 mA

UART (Serial connection)

Radio

US Cellular 800 MHz

US PCS 1900 MHz

GPS

Standards and Regulatory Compliance

Standards and Certification

The inGeo asset tracking device conforms to the following standards and certification requirements:

- FCC CFR 47 Part 1 – RF radiation exposure limits
- FCC CFR 47 Part 2 – Equipment authorization
- FCC CFR 47 Part 15 – Unintentional radiators
- FCC CFR 47 Part 22 - Cellular
- FCC CFR 47 Part 24 - PCS

Regulatory Information - Safety Warnings

Do not operate the inGeo asset tracking device in the following environments:

- In an active blasting area
- In potentially explosive environments such as refueling points, fuel depots or chemical plants
- Near medical equipment, especially life support equipment that might be susceptible to radio interference
- In an aircraft

Regulatory Information – Compliance

The inGeo asset tracking device has been approved for mobile applications by the FCC.

- Maintain at least a 20 cm separation between the device and the user's body.
- The inGeo device must not be co-located or jointly operated with any other transmitter or antenna

Standards and Regulatory Compliance

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.