# Vehicle Recovery and Fleet Management

Maximizeefficiency.Minimizerisks.Manageassets.

# FJ1510LW

The FJ1510LW tracker is a real-time vehicle tracking system designed for vehicle recovery, fleet management, and more..

#### **IT'SRELIABLE**

The ultra-thin yet durable FJ1510LWis a high-performance cellular tracking device designed for vehicle financing, vehicle tracking, lot management, theft recovery, or other fleet applications. With an integrated GNSS receiver, the FJ1510LW includes an LTE Cat-1modem for wireless data communication. The built in high performance antennas for both cellular radio andGNSS receivers make installation easy.

#### **IT'S SIMPLE**

No programming skills required; the FJ1510LW comes with easy-to- configure application software and an extended AT command set. Reports can be triggered periodically or in response to events such as motion, speeding, harsh acceleration and braking, geo-fence violations, and battery status. Notifications can be sent for vehicle towing, battery removal, and more.

#### **IT'S FUNCTIONAL**

The FJ1510LW interface supports main power supply, uart, can, input/output.

A built in 3-axis accelerometer enables motion detection and monitoring of driver behavior. An internal Lithium-Ion back up battery allows for continuous operation for up to 20 hours when the device is disconnected from the main power. An optional buzzer alert system for driver warnings is available inside the unit.

#### **HIGHLIGHTS**

- LTE Cat-1
- Integrated cellular and GNSS antenna
- LED status indicators for GNSS and network registration
- Integrated accelerometer for monitoring vehicle status & driver behavior
- I/O options for starter inhibit, ignition
- Rechargeable backup battery
- SMS, UDP, TCP, FTP & MQTT
- Up to 16 Geo-fences (polygon and circles)
- Over the air configuration and firmware update
- Extended AT Command set for flexible and easy configuration
- Small size and easy installation
- OPTIONAL FEATURES

# The application firmware is flexible and can be customized to be compatible with your existing server at special request.

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#### CELLULAR

- LTE Cat-1,
- LTE-FDD Bands : 2/4/5/12/13/14/25/26
- Integrated high performanceantenna

#### GNSS

- GPS, GLONASS, Beidou& Galileo
- Tracking Sensitivity: -161 dBm
- Acquisition Sensitivity: -146 dBm
- Location Accuracy: <2.5CEP</li>

#### BATTERYINFORMATION

- Type: Li-ION
- Capacity :1100mAh @ 3.7V
- Battery Life: Up to 4hours @ hibernation mode, 1 report per hour.(depends on the LTE signal strength and how many reports per hour)

#### ENVIRONMENTAL

- Operation Temperature: -30°C to +75°C without Battery
- Operation Temperature: -20°C to +60°C With Battery
- Storage Temperature: -40°C to +85°C

#### ELECTRICAL

- Operating Voltage: 7V 36V
- Over voltage protected
- Over current protected with resettable fuse
- Power Consumption:
  - ✓ GPS Acquisition : ~ 48mA @ 12V
  - ✓ GPS Tracking/Reporting : ~ 74mA @ 12V
  - ✓ Sleep mode : < 1mA @12V

#### PHYSICAL

- Dimensions: 93.0 x 51.0 x 15.3mm
- Internal Cellular and GPS Antennas
- Weight: ~80g

#### INTERFACE CONNECTORS

- Cable Harness :
  - 12-Pin built-in flat Cable
  - ✓ PWR, GND (\*2)
  - ✓ I/Os :input\*3 andoutput\*2 (\*5)
  - ✓ UART(\*2)
  - ✓ ADC\_MAIN power(\*1)

#### APPROVALS

- FCC 47
- PTCRB & Carrier Approved

## Asiatelco Technologies Inc. (ATEL)

**Asiatelco** is the leading provider of wireless terminal products to its value customers worldwide. Its innovative products and solutions are widely used for reliable broadband access, IoT/M2M applications and voice communication with 4G LTE, 3G &2G wireless technologies. ATEL's sales and marketing are globally positioned. It has become globally well-known company in the wireless industry due to its excellent products, solutions and services..For more information, contact Asiatelco Technologies Inc.

### FCC Regulations:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2)this device must accept any interference received, including interference that maycause undesired operation.

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 а residentialinstallation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmfulinterference to radio communications. However, there is no guarantee thatinterference will not occur in a particular installation. If this equipment does causeharmful 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 theinterference 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 thereceiver is connected.

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

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

### FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for anuncontrolled environment. To comply with FCC RF Exposure compliancerequirements, this grant is applicable to only Mobile Configurations. The antennas

used for the transmitter must be installed to provide a separation distance of at least20cm from all persons and must not be co-located or operating in conjunction withany other antenna or transmitter.

### **ISED** Warning statements

This device complies with Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

(I) This device may not cause interference; and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présentappareilest conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitationestautorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de

l'appareildoit accepter tout brouillageradioélectriquesubi, mêmesi le brouillageest susceptible d'encompromettre le fonctionnement.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be

installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

Pour se conformer aux exigences de conformité CNR 102 RF exposition, une distance de séparationd'aumoins 20 cm doitêtremaintenue

entre l'antenne de cetappareilettoutes les personnes.

This Class B digital apparatus complies with Canadian ICES-003.

Cetappareilnumeriquede la classe B estconforme a la norme NMB-003 du Canada.