# FJ110G 2G GSM & GPS TRACKER

The **FJ110G** is a portable 2G GSM and GPS Wireless Modem that reports location information via TCP, UDP or SMS with configurable intervals. It has three inputs, which can be used to detect sensors and two outputs. The FJ110G has a UART to connect an external device for sending or receiving ASCII characters or other data.

## KEY FEATURES

- **Modem & GPS Tracking:** Periodically sends GPS information (location and speed) to a server. Reporting interval and device/server setup can be updated or implemented using Over-The-Air programming commands via SMS or TCP/UDP.

- **Geofence*:** Sends an alarm message to the server when device is entering or exiting a predefined area.

- **Backup Battery (optional):** With a backup battery, device sends a tamper message if the main power supply wiring harness is disconnected.

- **Movement Threshold:** Reports speed and sends a message alert when device has reached a movement threshold.

- **Mileage:** Reports distance that device has moved.

- **3-Axis Accelerometer:** With a built-in 3-axis Accelerometer, detects movement or impact. The g-profile is sent to server. Can trigger sleep mode.

*Requires configuration/processing at server.

- **Message Storage:** Stores up to up to 1,000 messages if out of coverage and sends the messages once the device regains coverage.

- **Low Voltage Detection*:** Switches to deep sleep mode, and can send a message if supply voltage drops below a threshold.

- **Power Saving Mode:** Periodically wakes up and then returns to sleep when inactive.

- **GPIO and UART:** Has 3 inputs and 2 outputs and/or UART configuration. The UART can be used to communicate with various kinds of sensors or signage.

- **OTA (Over-The-Air):** Firmware can be upgraded via TCP.

# SPECIFICATIONS**

## Physical and Electrical
Dimensions: 83mm *43.2mm *17.7mm
Weight: 48 grams
Input voltage range: 6-40VDC
Power Consumption:
  Active mode 70mA @12VDC
  Sleep mode < 6mA @12VDC
Operation temperature: -30℃ to 80℃
Storage temperature: -40℃ to 85℃

## Comprehensive IOs
3 inputs and 2 outputs
1 A/D input and 1 UART
2 LEDs for GPS and Cellular status
Built-in Cellular and GPS antennas

## Cellular Communication
Quad Band
GPS/GPRS 850/900/1800/1900 MHz
GPRS, EDGE multi-slot class 10
Class 4 (2W @ 850/900 MHz
Class 1 (1W @ 1800/1900 MHz)
Protocol:
FTP/HTTP/HTTPS/SMTP/POP3/TCP/UDP/SMS

## GPS Specification
-157 dBm Tracking Sensitivity
Accuracy (Open Sky): < 2 (CEP50)

**Specifications are estimates only - please verify the specifications using your local network conditions