



## FJ110H 3G HSPA GSM & GPS TRACKER

The **FJ110H 3G HSPA, GSM and GPS Vehicle Tracker & Wireless Modem** 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. FJ110H 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) and I/O to/from a server. Reporting interval and device/server setup can be updated or implemented using Over-The-Air (OTA) programming commands over SMS or TCP/UDP.
- **Geofence\*:** Sends an alarm message to the server when device enters or exits 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 when device has reached a movement threshold, based on speed.
- **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 for analysis. Can trigger sleep mode.
- **Message Storage:** Stores up to 2,000 messages if out of coverage and sends the messages once the device regains coverage.
- **Low Voltage Detection\*:** Switches to deep sleep mode 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.

\*Requires configuration/processing at server.





## SPECIFICATIONS\*\*

### Physical and Electrical

Dimensions: 83mm \*43.2mm \*17.7mm

Weight: 48 grams

Input voltage range: 6-36VDC

Power Consumption:

Active mode 70mA @12VDC

Sleep mode < 6mA @12VDC

Operation temperature: -30°C to 80°C

Storage temperature: -40°C to 85°C

### Cellular Communication

Dual Band: UMTS/HSDPA 850/1900MHz

Quad Band: GSM/GPRS/EDGE

GPRS, EDGE multi-slot class 12

Output Power:

UMTS : 0.25W

GSM850/900: 2W

DCS1800/PCS1900: 1W

Protocol:

FTP/HTTP/HTTPS/SMTP/POP3/TCP/UDP/SMS

### Comprehensive IOs

3 inputs and 2 outputs

1 A/D input and 1 UART

2 LEDs for GPS and Cellular status

USB2.0

Built-in Cellular and GPS antennas

### GPS Specification

-157 dBm Tracking Sensitivity

Accuracy (Open Sky) < 2m (CEP50)

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