



FJ130H 3G HSPA GSM & GPS TRACKER

The **FJ130H** is a portable 3G GPRS, GSM and GPS Wireless Modem that has an internal battery, a panic button and is in a water-resistant (IP-65) case. It reports location information via TCP, UDP, or SMS with configurable intervals. The FJ130H is rechargeable & reprogrammable by USB 2.0 or by Over-The-Air (OTA).

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. Also supports A-GPS & Cell-ID.
- **Geofence*:** Sends an alarm message to the server when device is entering or exiting a predefined area.
- **Internal Battery:** With a replaceable internal battery, scheduled reporting can be setup. The device can report once per day, for one week, without re-charging required.**
- **Movement Threshold:** Reports Speed and sends 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. Also detects sudden crash or fall.



- **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, 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.

*Requires configuration/processing at server.



SPECIFICATIONS**

Physical and Electrical

Dimensions: 74mm *42mm *20mm

Weight: 70 grams

Input voltage range: 3.3-4.5VDC

Power Consumption:

Active mode 85mA @3.8VDC

Sleep mode < 8mA 3.8VDC

Operation temperature: -25°C to 65°C

Storage temperature: -40°C to 85°C

Comprehensive IOs

3 LEDs for power, GPS, and Cellular status

USB 2.0

3.3V-4.5V Battery Charging (3.8V nominal)

Built-in Cellular and GPS antennas

Cellular Communication

Quad Band: GSM/GPRS 900/1800/850/1900MHz

GPRS, multi-slot class 12

Output Power:

GSM850/900: 2W (Class 4)

DCS1800/PCS1900: 1W (Class 1)

Protocol:

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

GPS Specification

-157 dBm Tracking Sensitivity

Accuracy (Open Sky) < 2m (CEP50)

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