

# FR-8750+

product specifications



## Event Driven Dynamic Interface Engine



### SERIES



- Low Power Consumption
- Motion Sensor & Backup Battery
- Durable, high quality, splash proof housing
- Quad Band Modem: Works anywhere in the world where there is cellular service
- Ultra Sensitive (-162dBI) with powerful embedded antenna array
- SMA Connector for optional GPS Antenna
- Operating Voltage supports installation in all vehicles, motorcycles & power sports applications

## Quad Band GPS & GSM Tracking Platform

### GSM/GPS Specifications

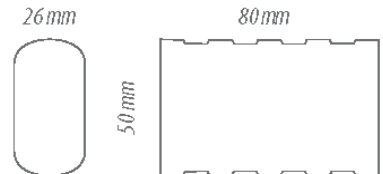
Frequency	Quad-Band: 850/900/1800/1900MHz
GPS Chipset	uBlox All-In-One GPS Receiver Sensitive, Fast and Accurate
Sensitivity	Cold start -148dBm / Reacquisition -160dBm / Tracking -162dBm
Position Accuracy	Autonomous: <2.5 m SBAS: 2.0 m
TTFF (Open Sky)	Cold start 35s / Warm start <35s Hot start <1s

### User Interfaces

Connector	16 pin Molex type connector
Digital Inputs*	Three digital inputs. One dedicated for ignition detection. The other two are negative trigger for general purpose
Analog Inputs*	1 Analog input (0-16V)
Digital Outputs	3 Digital outputs. Drive current 150mA. One of them is latched during reset
Two-Way audio	Speaker and microphone on 16 PIN connector
GSM Antenna	Internal Only
GPS Antenna	Internal Standard with External option built in to unit (SMA connector)
USB Interface	MINI-USB connector for configuration through TTL UART interface
RS-232 Interface	3 Wire, TX, RX, GND

### General Specifications

Dimensions	80mm X 50 mm X 26mm
Weight	89 g
Battery (Optional)	Li-Polymer 250 mAh, 3.7V
Operation Voltage	9V to 32 V DC
Operation Temperature	-30° to +80° for working (without battery) -40° to +85° for storage (without battery)



### Air Interface Protocol

Custom Protocol (EDDIE+)	
Transmit Protocol	TCP, UDP, SMS
OTA & FOTA Capable	

### Event Driven Dynamic Interface Engine (EDDIE+)

The second generation EDDIE+ Protocol supports a large number of upgrades over all previous firmware versions.

### Features

- Fast Implementation and Low Operation Costs
- Circular Geofence (up to 250 fences)
- Polygonal Geofences (Up to 25 point with 9 verticals)
- Route Geofencing (Up to 25 points with 10 verticals and customizable width)
- Battery level event and value as part of message
- Messaging control thru sequential identification as part of each event
- 3.2k Buffer Log Independent on the format of the message
- Flexible Customation Through Built in programmable rules engine
- & different types of counters
- Logi Event capability handling and combining events using: and, or, not
- Map Link Feature