



# StarLink

## Tracker 4G (CATm-1) SF EC iRF

### Ultimate, Function Rich Telematics Solution

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**StarLink Tracker** is a versatile telematics device, with highly configurable functionality and various variants to enrich and support any requirement and challenge in the Fleet Management, Vehicle Diagnostic, Driver and Passenger Safety and many additional automotive Connected Car and Telematics solutions requirements.

Many of these additional features can come embedded in the device or as external Add-Ons, added at any time during or after installation, from ERM's growing portfolio of Add-Ons and Accessories.

**StarLink Tracker** is compatible with most vehicle types and complies with automotive, radio and safety standards worldwide.

With a wide variety of Add-Ons and Accessories **StarLink Tracker** offers the richest and most advanced solution for any fleet requirement, anywhere. ●

## FEATURES

- 1 4G cellular, short range (iRF) and Sub 1G RF (EC) communication technologies all in one device
- 2 Immobilization system
- 3 Geo-zone protection
- 4 FOTA
- 5 Vehicle battery diagnostics: charge, voltage and battery life (SoH)
- 6 Dedicated single wire com port, to use wide range of Add-Ons and Accessories
- 7 Output Logic Programming (OLP) for complex output signal generation
- 8 Embedded antennas

### Main Functions:



**4G** The device comes with 4G LTE CATm-1 cellular module for communication technology, supporting Australian band frequencies.

**iRF** The device comes with two way standard short range RF communication module. Which can be used to transmit data between the device and a mobile phone/tablet or read data from variety of external sensors and tags.

**SF** 3D high sensitivity accelerometer and gyro supported with ERM's Safety technology for Driving Behavior analysis and BlackBox feature. The technology can identify 20 maneuver types in 3 levels. The functionality offers event based driving behavior alerts.

**EC** Patented RF technology (EC) designed to track jammed vehicles, by enabling alternative communication between vehicles. The function uses 915Mhz frequency.

## TECHNICAL SPECIFICATIONS

Cellular	4G LTE CAT-m1 / NB-1 cellular module with optimized embedded antenna.
Location	GPS/GLONASS/GALILEO , Active antenna, Sensitivity -165 dB, NMEA0193, Acquisition (normal): cold <34s, warm <34s, hot <1s, accuracy: 2.5m CEP Embedded optimized antenna
Communication	Text messages, TCP/IP over GPRS/UMTS/EDGE/HSPA, Standard short range communication module v4.0, 915Mhz RF communication module
Connectors	10-pin Molex connector
Input Ports	Up to 4 inputs for general use, additional I/Os with external HUB/junction box
Output Ports	Up to 4 outputs for general use, active low, 1A
I/O Ports	2
Analog Ports	2 inputs using an external adaptor 0-12V and 0-5V (optional using EDA Analog)
Dedicated Ports	Ignition port, one data wire for ERM accessories (eNet protocol)
Power Supply	9-32VDC, 20-30mA (average), Low power mode (GPS off) < 10mA, Power save mode (standby) < 3.0mA (average)
Backup Battery	Rechargeable, 3.6V, 750mAh (Li-ion)
Vehicle Interface	Ignition On/Off, Engine On/Off (by voltage), VSS, CANBUS (optional using eData/CANalog/eCAN Add-ons)
Configuration / Firmware Update	OTA/Via Standard PC USB Port, parameters setup, software programming
Data Logger	Up to 8,000 messages

## ENVIRONMENT

Environment	
Operating Temperature	-20 to 70° C
Storage Temperature	-40 to 85° C
Dimensions	9.2cm x 6.5cm x 2.8cm
Weight (NET)	120g
Durability	Vibration resistance, Water resistance is optional with Tracker Rubber Cover (separate product)
Max. Relative Humidity	90(±5)%

## **FCC warning statements:**

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 a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful 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 the interference 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 the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Caution:** Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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 may cause undesired operation.

The device has been evaluated to meet general RF exposure requirement. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.