StarLink
Tracker

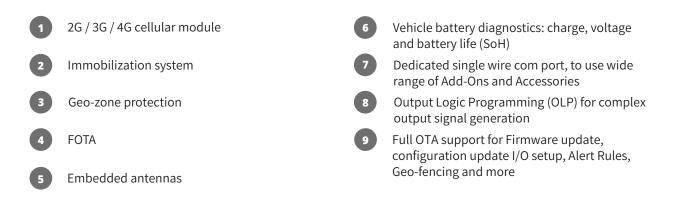## Ultimate, Function Rich Telematics Solution

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 2G / 3G / 4G cellular module

2 Immobilization system

3 Geo-zone protection

4 FOTA

5 Embedded antennas

6 Vehicle battery diagnostics: charge, voltage and battery life (SoH)

7 Dedicated single wire com port, to use wide range of Add-Ons and Accessories

8 Output Logic Programming (OLP) for complex output signal generation

9 Full OTA support for Firmware update, configuration update I/O setup, Alert Rules, Geo-fencing and more

Available variants to choose from:

2G 3G 4G WF iRF SF CAN ID EC EA VO

2G 3G 4G The device comes with variety of options for cellular communication technology to choose from: 2G (GPRS), 3G (UMTS), 4G (LTE - with selected band width and CAT implementations: CAT-M1, CAT1, CAT4) modules.

WF Wi-Fi hot spot with ability to support up to 8 concurrent users. In addition, as an option, the technology can be configured to act as a client instead of host, in order to connect with third party Wi-Fi hotspot

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.

EA External GPS and Cellular antennas plugs. Used to enhance the communication capability of vehicles in which the communication of the internal antennas is limited, such as in armored vehicles

CAN The device comes with ERM's CAN Engine technology providing CANBUS interface to various protocols such as CANBUS, OBD2, FMSJ1939, up to 12 parameters including Odometer.

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.

VO Support for voice communication with the driver, enabled by the use of external speaker and dedicated microphone, both inclusive of this variant kit. An option to use ERM's keypad, or a push button is available for fast dialing, manual answer/disconnect of the calls.

EC ERM's patented RF technology (eConnect) designed to track jammed vehicles, by enabling alternative communication between vehicles. The Variant offers 433Mhz or 915Mhz frequency, per request

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TECHNICAL SPECIFICATIONS

Cellular	2G variant: GPRS Quad-Band 900/1800/850/1900 3G variant: GPRS/UMTS/HSDPA 5-Band 900/1800/850/1900/2100 4G variant: LTE Bands CAT-4(bands: 1,3,5,8) / CAT-1(bands: 1,2,3,4,5,7,8,28) / CAT-m1 / NB-1 All cellular options comes with optimized embedded antenna.
Wi-Fi (optional with 4G variant only)	2.4GHz bands b/g/n
Location	GPS/GLONASS/GALILEO, Active antenna, Sensitivity -165 dBAcquisition (normal): cold 34s, warm 34s, hot 1s, accuracy: 2.5m CEP + Embedded optimized antenna
Communication	TCP/IP, text messages, Standard 2.4Ghz short range communication v4.0 (with iRF variant)
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
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	5,000 to 60,000 messages (depending on the variant)

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)%