

GreenRoad Connect™ Enterprise Tracker is a robust and proven family of in-vehicle ECM (Engine Control Module) devices that track vehicle location, motion and condition.

It is designed to support an extensive range of automotive applications - from enterprise location to vehicle finance - for all types of connected vehicles. Its diagnostic interface provides an accurate, real-time picture of vehicle fuel consumption, performance and health.

## Two Models

**GreenRoad Connect™** is a cost-effective small form-factor model, designed for use in light-duty vehicles (e.g. consumer cars, vans, etc.)

**GreenRoad Connect Plus™** is a larger, model of the GreenRoad Connect™, designed for use in both heavy-duty (e.g. trucks and buses) and light-duty vehicles and also supports multiple input/output options.

## Actionable Intelligence

**GreenRoad Connect™** Continuously monitors fuel consumption, performance and health.

It automatically transmits the information to a central controller over cellular networks when pre-defined threshold conditions are met. This accurate intelligence enables you to address fundamental vehicle issues and to improve the performance of the fleet as a whole.

## Reliable & Standard-Compliant

**GreenRoad Connect™** devices are the industry's de-facto standard. They have been deployed in thousands of vehicle models throughout the world and additional models are added continuously.

GreenRoad Connect™ is fully compliant with the standards implemented in both light-duty and heavy-duty vehicles:

- OBDII (for light-duty vehicles): the physical interface as defined by SAE standard J1962 as well as communications standards J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230, KWP 2000 and ISO-15765 CAN.
- J1708 and J1939 (for heavy-duty vehicles)



### Features

Vehicle diagnostic, fuel and health data

3G/4G/LTE/cellular connectivity

Secure remote configuration and firmware update

Low-power sleep mode for longer life

Battery backup and data caching

Easy-to-install

Y cable for tamper-proof installation

Optional Bluetooth 4.0 dual mode connectivity

Optional crash detection

## GreenRoad Connect™ Specifications

<b>General</b>	<b>Communication Modes</b>	GPRS, CDMA, HSPA and LTE Cat 1 options
	<b>Location Technology</b>	50+ channel GPS (with SBAS)
	<b>Messages</b>	20,000 buffered messages
	<b>Geo-Fence</b>	32 PEG-Zones (rectangular/circular) 1024 Geo-Zones (polygon/circular - 5400)
	<b>Configuration</b>	Automatic over-the-air firmware and configuration updates
<b>GPS</b>	<b>Location Technology</b>	GPS, AGPS Capable
	<b>Enhancement Technology</b>	SBAS: WAAS, EGNOS, MSAS, GAGAN
	<b>Tracking Sensitivity</b>	-162 dBm
	<b>Acquisition Sensitivity</b>	-148 dBm
<b>Cellular</b>	<b>Location Accuracy</b>	2.0m CEP
	<b>Operating Bands (MHz band)</b>	
	GSM/GPRS	850/900/1800/1900
	CDMA/1xRTT	850/1900
	HSPA/UMTS	800(VI)/850(V)/900(VIII)/ 1700(IV)/1900(II)/2100(I)
LTE Cat 1	ATT: Bands 2, 4, 5, 12, and 13; plus HSPA fallback (Bands 2 and 5) Verizon: Bands 2, 4, and 13	
<b>Certifications</b>	Fully certified FCC, CE, IC, PTCRB, Applicable Carriers	
<b>Mounting</b>	Via Built-In OBD-II Connector or Extender Cable	
<b>Connectors</b>	Built-in OBD-II/EOBD-II Interface via J1962 Compliant Connector	
<b>Comprehensive I/O</b>	<b>OBD-II Interface</b>	J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230, KWP 2000, ISO-15765 CAN
	<b>Outputs</b>	None
	<b>Communications Status</b>	LED's: OBD, Cellular and GPS
	<b>Serial Port</b>	2-wire TTL Serial Interface (optional)
	<b>Bluetooth</b>	Bluetooth 4.0 Dual Mode (optional)
	<b>Temperature (Except Battery)</b>	-30° to + 75° C (operation) -40° to + 85° C (storage)
<b>Environmental</b>	<b>Humidity</b>	95% R.H. @ 50° C non-condensing
	<b>Shock and Vibration</b>	SAE J1455
	<b>EMC/EMI</b>	CE, GCF, eMark
	<b>RoHS Compliant</b>	
<b>Physical</b>	<b>Dimensions</b>	1.5 x 2.5 x 0.98" (43 x 64 x 25mm)
	<b>Weight</b>	1.83oz / 52g
	<b>Enclosure</b>	Rugged textured plastic enclosure
<b>Electrical</b>	<b>Operating Voltage</b>	9-16 VDC Vehicle Systems
	<b>Power Consumption</b>	4.9mA @ 13V (deep sleep ) 83mA @ 13V (normal operation) 66mA @ 13V (SMS+UDP connection, GPS off) 114mA @ 13V (continuous transmit)

## GreenRoad Connect™ Plus Specifications

General	Data Support	SMS, TCP and UDP packet data
	Location Technology	56 channel GPS (with SBAS)
	Operating Voltage	12 and 24 volt vehicle systems
GPS	Location Technology	GPS; GLONASS and QZSS capable, AGPS capable
	Enhancement Technology	SBAS: WAAS, EGNOS, MSAS
	Receiver Type	56 channels
	Tracking Sensitivity	-162 dBm
	Acquisition Sensitivity	-148 dBm
	Location Accuracy	2.0m CEP
Cellular	Operating Bands (MHz band)	
	GSM/GPRS	850/900/1800/1900
	CDMA/1xRTT	850/1900
	HSPA/UMTS	800(VI)/850(V)/900(VIII)/1700(IV)/1900(II)/2100(I)
LTE	700/800/850/1700/1800/1900/2600 MHz (depending on configuration) Fallback to HSPA/CDMA (depending o configuration)	
Comprehensive I/O	Light Duty Vehicle (OBD-II) Interface	J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230, KWP 2000, ISO-15765 CA
	Heavy Duty Vehicle Interface	J1708, J1939
	Digital Inputs	7 (high/low selectable 0-30 VDC)
	Digital Outputs	5 (open collector relay 150mA)
	Current Limited Outputs	2 (20mA)
	A/D Inputs	4 (0-30VDC, +/-0.1V accuracy)
	1-Wire® Interface	2 (driver ID, temperature sense)
	Status LEDs	GPS and cellular
	Bluetooth 4.0 Dual-Mode	Classic, BLE (Optional)
	WiFi a/b/g/i Client Mode	
Electrical	Operating Voltage	9-30 VD
	Power Consumption	4 mA @ 12V (deep sleep) 10mA @ 12V (sleep on network with SMS) 20mA @ 12V (sleep on network with GPRS) 70mA @ 12V (active tracking)
	Back Up Battery (Optional)	Lithium-Ion 200mAh or 1000mAh
	Environmental	
Environmental	Temperature (Except Battery)	-30° to +75° C (operation) -40° to +85° C (storage)
	Humidity	95% R.H. @ 50° C non-condensing
Physical	Shock and Vibration	U.S. Military Standards 202G and 810F, SAE J1455
	EMC/EMI	SAE J1455, SAE J1113
	Dimensions	4.3 x 3.2 x 0.86" , (110 x 81 x 22mm)
	Weight	4 oz, (113 g)

<b>Connectors</b>	<b>External Cellular/GPS</b>	SMC/SMA (Optional)
	<b>4-Pin Molex</b>	Power, ground, ignition, A/D
	<b>Two 5-Pin Molex</b>	Switched power serial
	<b>22-Pin Molex</b>	I/O connection
	<b>Vehicle Bus Option</b>	DB-15
<b>Certifications</b>	Fully Certified FCC, CE, IC, PTCRB, Applicable Carriers	
<b>Mountings</b>	Screw Mounting Bracket, Tie-Wrap, Adhesive, or Velcro	



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