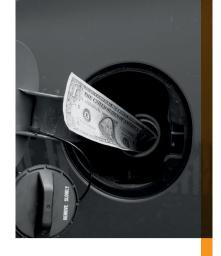


inTrans Lite

Cost-Effective Fleet and Security Management Solution





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Use Cases

Fuel Solution

Online monitoring of fuel consumption – using the inTrans Lite device and fuel solution accessories (fuel probe sensor, fuel level sensor and fuel cap protector) – including the level, the volume, time and location of refueling and draining, helps reduce fuel usage and prevent fuel theft.



Cold Chain

Assures the required temperature is maintained during shipments of perishable goods or pharmaceuticals, using the 1-wire temperature sensor which connects to the inTrans Lite device. Fleet owners/managers can receive real-time updates of any breaches of pre-defined thresholds and take action to guarantee compliance with cold chain shipment requirements.



Driver Identification

The driver ID of inTrans Lite in conjunction with the deriver ID accessories (Dallas Keys, Keypad and Proximity Reader among others) can be used for vehicle immobilizations and driver-recognition in security and fleet services applications.



Stolen Vehicle Recovery (SVR)

Provides advanced security with jamming detection and reaction to ensure stolen vehicle recovery (SVR). The inTrans Lite unit recognizes jamming attempts and reacts according to the selected method of reaction, for example disabling the engine or activating an output e.g. tuning lights on/off with horn.



Motorcycles & Scooters Protection

The inTrans Lite device is an ideal solution to protect motorcycles or scooters, thanks to its movement detection capabilities, compact size and easy installation. The device provides security and location alerts and can be configured to full hibernation mode to enable low battery consumption to prevent battery drainage. In this mode the device will start operating according to a predefined time or event (for example if its internal accelerometer is activated). The device IP rating can be upgraded from IP40 to IP65.

Highlights

- 3G
- SIM holder two alternatives: Regular SIM or SIM-On-Chip ready layout.
- Backup battery with extended capacity of 1000mAh.
- IOs:
 - Ignition
 - 2 digital inputs
 - 2 programmable I/Os (digital/analog/frequency counter)
 - Serial (TTL level)
 - 1-wire input Dallas port (Driver-ID/Trailer ID and for 1 temperature external sensor)
- Built-in motion sensor for movement & towing detection.

- Advanced capabilities including:
 - Jamming detection
 - In cabin speed alert (activation of one output if speed limit is exceeded)
 - Usage / frequency counters
 - Gradual immobilizing as one of the outputs
 - Basic Satellite activation

Communication	
Variant	3G
GSM Modes	UMTS/HSPA/GSM/GPRS/EDGS: 5.76 Mbps [UL]/7.2 Mbps [DL]
Bands	850/1900MHz; 900/2100MHz
Power Output	0.25W
SIM	Internal, replaceable; SIM on chip support
Antenna	Internal, penta band GSM antenna
Packet Data	TCP/IP, UDP/IP
GPS	
Variant	3G
Technology	Chipset: SiRFstarV GNSS
Sensitivity (tracking)	-166dBm
Acquisition (normal)	Cold<35Sec, Hot<1Sec
Antenna	On board, internal patch antenna
Inputs & Outputs	
Inputs	1 internally pulled down input dedicated for ignition switch 2 internally pulled up inputs with assignable functionality and configurable polarity
Outputs	2 general purpose open drain outputs (250mA max) with assignable functionality Can be utilized also as inputs (configurable)
Accelerometer	3D, 16g range, 12 bit representation, 1mg resolution
Interfaces	
COM Port	Selectable baud rate (9600 or 115000bps) TTL levels (external 3.3V TTL-USB adaptor) 8 bit; 1 Stop Bit; No Parity Configuration update Firmware upgrade
1-Wire™ (Dallas port)	DS1990A, DS1971 compliant for driver management Extended bus current source with 7mA driving capability DS18B20 compliant for temperature sensors

Connectors	10pin Molex, Automotive
Power	
Variant	3G
Input Voltage	9-32VDC
Average Current Consumption	Normal: 46mA Economic: 25mA Hibernation: 2.4mA
Internal Battery	Li-lon Polymer, 3.7V, 1000mAh, rechargeable Embedded NTC for temperature controlled charging Operating Temperature: -20°C (65% charge) to +60°C Charging Temperature: 0°C to +45°C Battery Monitoring: Temperature (NTC) & Voltage Autonomy: 142 messages from a fully charged battery in a TX Rate of 1/5 Minutes @ room temperature Protections: over current, overcharge and over discharge
Vehicle Environment Immunity	
Immunity	Compliant with ISO 7637 test level #4 (in accordance with e-mark directive)
Environment	0000 7000 1
Temp, operating	-30°C to +70°C full performance
Temp, storage	-40°C to +85°C
Humidity	95% non-condensing
Protection	IP40 (IP 66 with protector)
Vibration, Impact	ISO 16750
Mounting	Tie-wraps and/or two sided adhesive
Certifications	
FCC	Part 15 Subpart B, part 22/24 compliant
CE	CE number – CE 1177,0889 CE EMC & R&TTE according to 89/336/EEC or 1999/5/EC CE Safety EN60950-1:2006+A11:2009 Automotive Directive 2004/104/EC (E-Mark)
IC	Industrial Canada
EN12830 compliance With 1-wire temperature sensor	Suitability: T Climatic environment: • w/o CR Protector – B • with CR Protector – D Accuracy class: • (-10)°C to (+85)°C - 1 • <(-10)°C, > (+85)°C - 2 Range: -55°C to +125°C
Dimensions & Weight	
Dimensions	91x69x23mm
Weight	~100gr
Add-On Accessories	
1-wire Temperature Sensor	Connects to the 1-wire port of the inTrans Lite Operating temperature range: -55°C to +125°C with ± 0.5 °C accuracy from -10°C to +85°C
Concrete Mixer Sensor	Full monitoring solution of the concrete supply cycle and its various supply cycle stages
Fuel Probe Sensor	Measures the fuel volume in fuel containers and vehicles' tanks
Fuel Level Sensor CR Protector	Measures the fuel level in the vehicle tank Silicone/ rubber cover to improve the protection of the device (upgrades the IP rating from IP40 to IP65)

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