

# GPSgecko V3

Position:  
47N 84°883" 11E 13°370"  
Speed:  
103 km/h  
Acceleration:  
0,75 m/s<sup>2</sup>  
Satellites:  
7 logged



## Automotive GPS

The new GPSgecko V3 is a cost-effective, high capacity development tool targeted at the automotive industry for providing GPS data via the CAN bus.

The refresh frequency can be customized. Highly accurate movement detection is offered by the integrated acceleration sensor and gyroscope, which are synchronised with the GPS signals.

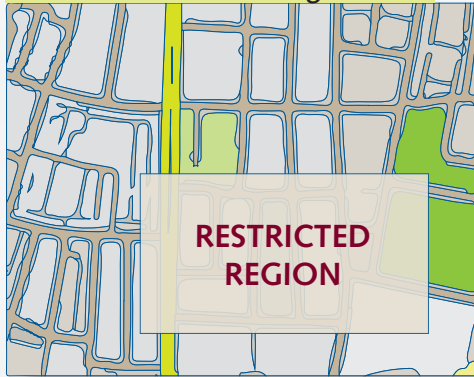
**10 Hz  
GPS-Data**

**CAN  
Interface**

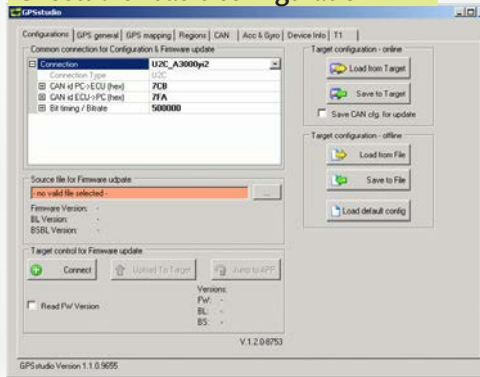
**Highly  
configurable**

# Robust automotive GPS module

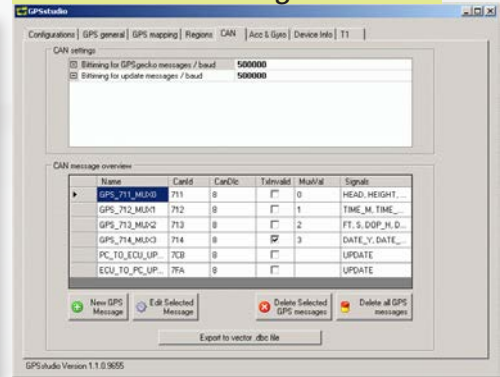
## Definition of restricted regions



## GPSstudio: basic configuration



## GPSstudio: CAN configuration



**GPSstudio** is the configuration tool which runs on Windows PCs. GPSstudio allows easy and flexible configuration including the mapping of signals to CAN messages. It supports multiplexed CAN messages and the .dbc generation as well.

**Region Restriction** allows the collection of GPS data only while the system is within pre-defined geographical limits.

## Applications:

- Capture location during a vehicle field test
- Signal validation of vehicles in a test drive
- Data logging for fleet management applications

## Options:

- Build-in SD-card-reader for local data storage
- Internal USB connector
- Dead-reckoning of position during GPS drop-outs

## Front connection & control panel



- ← SMA antenna connector
- ← CAN I/O, Power connector 1
- ← CAN I/O, Power connector 2
- ← Status LED: ant, pwr, GPS signal
- ← Reset button (let-in flush)

## Technical Specification:

GPS data	10, 5, 1, 0.2 or 0.1 Hz (configurable)
CAN-Interface	2x Power / CAN for daisy chaining of measurement devices
Antenna	pasive or active antenne (max. 40 mA)
Accelerometer	3-way, $\pm 2/4/8$ g @12 Bit (configurable)
Gyroscope	3-way, $\pm 250, \pm 500, \pm 2000$ dps @ 16 Bit
Connectors	Lemo EYA.0B.309 „M-CAN“
Power	6.5 - 34 VDC, 40 mA (passive antenna)
Warmstart	retains SAT information for > 48h
Temp. range	-20° C to +85° C equals -4° F to +185° F
Shock resistance	free fall from 1.2 m height
Data	Signal to message mapping via GUI
Dimension	122 x 85 x 25 mm, approx. 240g

WE DEVELOP PRECISION

