



# xProGPS\_nano100

Speed Sensor and more ...



# xProGPS\_nano –

## GPS-Speed Sensor now with super speed **100Hz**



Suchy Data Systems 

### New Top Features

#### xProGPS\_nano100 has been upgraded to the latest Technology

xProGPS\_nano100 now comes with a completely re-designed receiver engine giving you a stunning **100Hz data rate** and now tracking concurrently up to 4 different satellite systems:

GPS, GLONASS, BEIDOU and Galileo plus SBAS

This hot technology plus an increased sensitivity guarantee best results even under difficult reception conditions.

For a most perfect solution we also added a modified high-end antenna which pushes signal quality into a hard to beat level specially in most demanding urban canyons.

#### xProGPS\_nano100 is not just a GPS-Receiver – it is a complex and easy to use Multi-Sensor-System to assist test engineers

xProGPS\_nano 100 provides everything you will need to successfully run the most demanding test cycles:

- A built-in and improved **6D-Inertial Sensor** delivers acceleration and gyro data
- A complex **Sensor Fusion Algorithm** integrates GPS and Inertial sensor to compensate drop-outs ( i.e. bridges ) and to smooth speed signal
- **100 Hz Speed data rate with Sensor Fusion** delivering true physical content
- An extra **Altimeter** sensor dramatically improves altitude information to better 1 meter
- All standard interfaces included: **CAN, USB, COM, Analogue, Frequency** and more

- xProGPS\_nano100 connects directly to SUCHY driver displays xProLCD
- optional Windows datalogging / performance test app

#### Best for all kinds of Vehicle Testing

For a wide range of vehicle testing xProGPS\_nano is the perfect product and gives excellent value for money!

100 Hz Fusion Data can eliminate the need for a native 100 Hz GPS-receiver at considerably higher costs.

Typical applications include:

- General analysis of test rides
- Fuel consumption and coast down
- Performance Test
- Precision Brake Tests
- Replacement of 5th wheel and optical sensors
- Perfect for tests in electric cars
- Component test / durability test
- Homologation
- Motor sport / lap timer on race tracks
- Slip control of rail way vehicles
- Tractors and harvestors
- Vessels
- and much much more...

#### Technical Data

- Wide range power supply 10 ... 32 VDC @ appx. 50 mA
- Temperature range -40 ... + 85 C
- Size 114x86x26 mm
- Sensivity -167 dBm / Hot Start < 2 sec
- Speed precision < 0.1 km/h RMS
- Position precision < 1.5 m with SBAS (no RTK !)
- Distance precision < 0.1 % RMS
- Analogue Output 16 Bit / 0 ... 2.5 V <> 0 ... 250 km/h

