

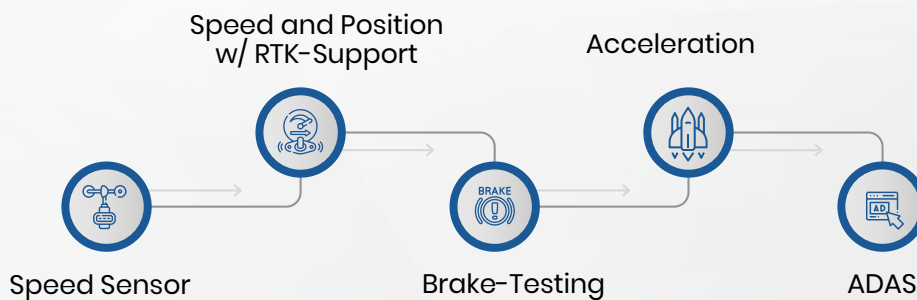
# GPS100.ADAS

All-in-One Solution



The gps100.ADAS is an All-in-One Solution to measure velocity, position and movement of a vehicle. The system is weatherproof and designed to mount on top of a vehicle. GNSS Antenna and IMU is integrated no external cables needed. Adding to that is an RF-Module inside the device to communicate to one or more other systems (moving or static). The RF frequency is 2.4GHz and useable world-wide. Output of the Data is by CAN (CAN-FD compatible) or Analog (only velocity). Optional RTK-Support is available.

## Applications



## Data Output:

- |  |              |   |               |   |   |
|--|--------------|---|---------------|---|---|
|  | Velocity     |  | Position      |  | Status  |
|  | GNSS-Data    |  | Inclination   |  | Acceleration (X Y Z)  |
|  | Gyro (X Y Z) |  | Moving Vector |  | Distance to other devices (N, E, D & resulting Vector scaled in mm) |

**GENERAL****INPUT****IMU****GNSS-System**

up to 200Hz

**CAN**

up to 200Hz

**GYRO**Range  
+/-2000°/sec**CPU**

High-Performance

CAN FD up to 8MBaud

Nonlinearity  
<0.1% FS

ARM Cortex

Compatible to CAN classic

200MHz

**OUTPUT**3dB Bandwidth  
250 Hz

Real-Time-Operating

Analog

1 Analog Output for Velocity

Stability  
< 5°/hr**LED / Buttons**

05V, 10mV/km h

Power-On

**ACCELEROMETER**

State-Button

Range  
+/-16g**Housing**

Anodized weatherproof

Nonlinearity  
< 0.5% FS

(IP67) Aluminium

Magnetic mount

3dB Bandwidth  
250Hz

Optional suction cup

**Supply**

9V to 70V DC

Stability  
<0.04mg

max. 700mA

**MAGNETOMETER****Temperature**Resolution  
0.25mG

Operation &amp; Storage

-40 °C to 85 °C

Full Range  
5 G

IMU is calibrated

for the temperature range of

3dB Bandwidth  
200 Hz

-40° to 85°

**OTHER**

Warranty

1 year limited warranty

**GPS Performance / Accuracies****Speed**

Accuracy: +/- 0.03 m/s (10 RMS)

Resolution: up to 0.01 km/h

Latency: &lt;2ms (with time stamp)

max. 500 km/h

Refresh rate: max. 400Hz

**Position accuracy**

H (SBAS):1.0m (L1 + L2)

V (SBAS):1.5m (L1 + L2)

H (RTK): &lt;2cm (L1+L2+RTK)

V (RTK): &lt;2cm (L1+L2+RTK)

Refresh rate: max. 400Hz

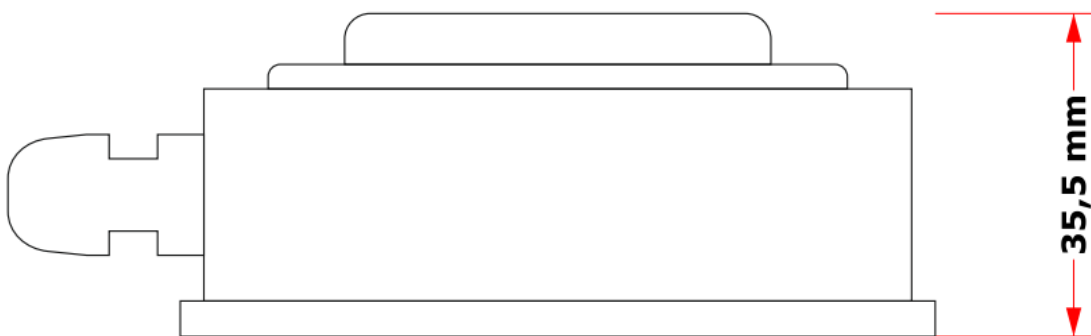
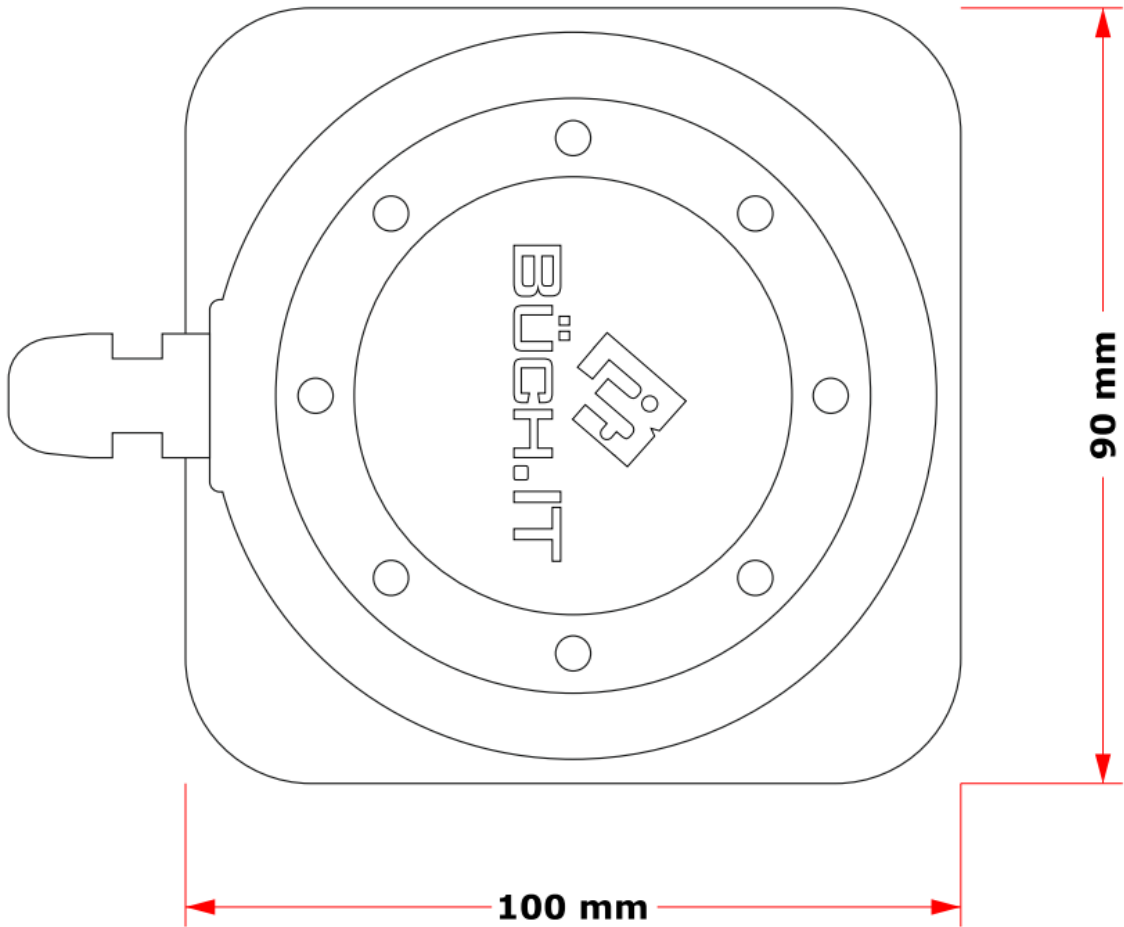
**Heading**

Resolution: 0.01°

**Roll / Pitch**

Accuracy: 0.05°

# GPS100.ADAS



9324325522



[sales@tsmtechnic.com](mailto:sales@tsmtechnic.com)



Off. No 224, 2nd floor, building Gera imperium  
Rise Wipro circle, near Wipro company,  
Hinjewadi phase 2, 411057, Pune