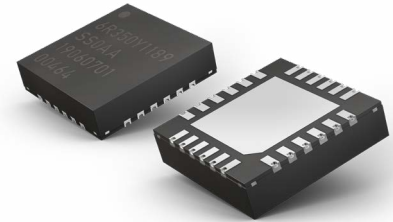


# 6DoF Inertial Sensor – EWTS5G HP Type

This sensor contributes to advanced system such as ADAS (Advanced Driver Assistance Systems), autonomous driving, and more, in order to detect 6DoF data which are composed by 3 axis (forward and backward, left and right, up and down) of acceleration(Acc) and gyro data.

## Main features:

- Balanced 6DoF accuracy with <math><0.01^\circ</math> orthogonality error
- Reduced total offset error and sensitivity error over the lifetime
- Robustness against harsh vibration and temperature
- ISO 26262 ASIL-B(D) compliant, AEC-Q100 qualified
- Complete installation flexibility for all systems



| Spec                    | EWTS5G HP Type                                 |
|-------------------------|--|
| Package size            | 4.5 x 4.5 x 1.1 mm                             |
| Operating temperature   | -40 to +125 °C                                 |
| Interface               | SPI  |
| Total offset            | Gyroscope $\pm$ dps, Accelerometer $\pm$ 50 mg |
| ASIL                    | ASIL-B (D)                                     |
| Total sensitivity error | Gyroscope $\pm$ 2.0%, Accelerometer $\pm$ 2.0% |

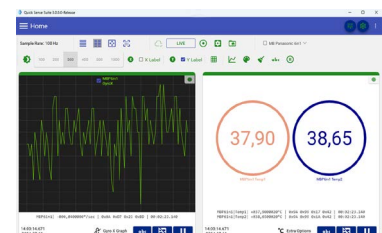
## Market & Applications:

| Automotive   | Industrial   | Mobility   | Agriculture   |
|--|--|--|---|
| <ul style="list-style-type: none"> <li>• Passive safety</li> <li>• ADAS/AD</li> <li>• Comfort</li> </ul> | <ul style="list-style-type: none"> <li>• Off-highway vehicles</li> <li>• AGVs</li> <li>• Robotics</li> </ul> | <ul style="list-style-type: none"> <li>• NEVs</li> <li>• Motorbikes</li> <li>• Trains</li> <li>• Drones</li> </ul> | <ul style="list-style-type: none"> <li>• Agricultural robots</li> <li>• Lawn mower</li> <li>• Sprayers</li> </ul> |

**NEW**

An evaluation kit is available for your quick trial.

- Variety of interfaces including CAN, Ethernet, UART, and USB
- IMU configuration, sampling settings, and data recording functions



Want to learn more?

Email: [6dofsensor@eu.panasonic.com](mailto:6dofsensor@eu.panasonic.com)

URL: [6DoF inertial sensor \(panasonic.eu\)](https://panasonic.eu)

