TW5262



TW5262 Smart GNSS Antenna

Overview

The TW5262 is a multi-constellation GNSS Receiver/Antenna fused with inertial sensor data. It is an easy-to-use tracking solution that enables high performance positioning in places where GNSS signals are poor or not available.

The TW5262 incorporates a latest generation GNSS receiver that supports simultaneous GPS/Galileo/GLONASS (GLONASS or Beidou) reception and a Tallysman's Accutenna™ patch antenna. This dual feed antenna greatly improves rejection of multi-path signal interference, making it the most precise antenna for tracking in dense urban environments.

Untethered Dead Recknoning (UDR)

The TW5262 Untethered Dead Reckoning (UDR) technology provides continuous navigation without requiring speed information from the vehicle. This innovative technology brings the benefits of dead reckoning to installations previously restricted to using GNSS alone, significantly reducing the cost of installation for Dead Reckoning applications.

The strength of UDR is particularly apparent under poor signal conditions, where it brings continuous positioning in urban environments, even to devices with antennas installed within the vehicle. Useful positioning performance is also available during complete signal loss, for example in parking garages or short tunnels. UDR positioning starts as soon as the ignition signal is applied and before the first GNSS fix is available.

The TW5262 may be installed in any position in a vehicle without electrical connection to the vehicle speed sensor. The on-board accelerometer and gyroscope sensors result in a self-contained UDR which is self calibrating and provides reliable and consistent navigation.





Mechanical Dimensions (mm)

Features

- Complete positioning solution with integrated 3D sensors
- Positioning accuracy in dense cities and covered areas
- Independent of any electrical connection to the car
- 5V-36V automotive operation

- Excellent multi-path signal rejection
- Industrial grade IP67 enclosure
- RoHS, REACH, RED compliant. CE marking

Specifications

Antenna	
Axial Ratio	Dual Feed
	WAAS, EGNOS, MSAS, GAGAN
Interface	
Pwr, Gnd Ignition In Tx, RX	
Mechanical	
Mechanical	
Dimensions Weight Mounting Method Cable Length	
Dimensions Weight Mounting Method Cable Length	130 g Magnetic Mount 5 m with RJ12 termination Industrial grade magnetic mount

Environmental
Operating Temperature
3 axis sweep - 15 min Vibration
vibration
Sensitivity
Tracking & Nav160 dBm 1 Cold starts148 dBm Hot starts157 dBm
Acquisition
Cold start
Reacquisition
Position
Position Accuracy
Serial Protocol
OutputNMEA 0183 Baud RateConfigurable Update RateConfigurable up to 30Hz

Ordering Information:

32–5262–7–10–05–ccc ccc= Custom Configuration (Contact Tallysman for "Custom" details e.g. configuration, radio cable type. e.g. PCO = NMEA out, no adaptor cable TC4 = Tait NMEA, 27–0118–1 radio cable

TW5262 Configuration Cable

Please refer to the Ordering Guide for the current and complete list of available product options.

About Calian GNSS Ltd.: With global headquarters and manufacturing in Ottawa, Canada, Calian GNSS is a leading manufacturer of high-precision antennas and components for Global Navigation Satellite System (GNSS) applications. Calian GNSS' mission is to support the needs of a new generation of positioning systems by delivering unprecedented antenna precision at competitive prices. Learn more at www.calian.com/GNSS

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