TW5242



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TW5242 Smart GNSS Antenna

Overview

The TW5242 is a multi-constellation GNSS Receiver which provides simultaneous GPS/GLONASS/SBAS reception. It is designed for use in professional grade digital tracking/positioning applications.

The TW5242 uses a state of the art ST STA8088 receiver which provides 32 high sensitivity tracking channels plus 2 fast acquisition channels which can be assigned to acquire and track GPS, GLONASS, QZSS, and SBAS (WAAS, EGNOS, MSAS) signals simultaneously.

The TW5242 employs Tallysman's Accutenna™ dual feed antenna patch technology which greatly improves rejection of multi-path signal interference, making it the most precise antenna for tracking in dense urban environments.

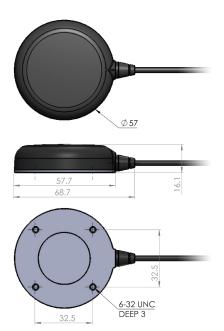
The TW5242 output NMEA 0183 messages lists with navigation update rate of 1Hz. It has a RS232 interface and 9V to 36 V operation for automotive applications.

Tallysman's Windows™ based configurator application enables configuration of parameters such as baud rates, output message rates, constellation, tracking parameters.

Interface

The TW5242 has a 5 meter cable terminated in RJ12 connector. Adaptor cables are available for connecting to a variety of Two-Way radios, PC, etc contact Tallysman for details.





Mechanical Dimensions (mm)

Features

- Multi-Constellation Receiver/Antenna
- 32 Channel simultaneous operation
- High performance tracking (162 dBm)
- Conditional ignition input for Tait Radios

- 9V-36V automotive operation
- Excellent multi-path signal rejection
- Industrial grade IP67 enclosure
- RoHS, REACH, RED compliant. CE marking

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Specifications

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acquisition

Navigation Accuracy

Interface

Outputs......Pwr, Gnd, Tx InputsRx

RS232

Mechanical

Weight......130 g

Mounting MethodMagnetic Mount

weatherproof IP67

Electrical

Current50 mA during acquisition

40 mA operating

Environmental

Operating Temperature. -40°C to +85°C Storage Temperature. . . . -45°C to +85°C

WeatherproofIP67

Shock......Vertical axis 50G,other axis 30G

3 axis sweep – 15 min Vibration.....10-200 Hz log sweep 3G

Sensitivity

 Acquisition......-146 dBm

 Tracking.....-162 dBm

Time to First Fix

 Cold start
 .35 sec

 Warm start
 .30 sec

 Hot start
 .<2 sec</td>

 Reacquisition
 <1 sec</td>

Serial Protocol

Update Rate......Configurable up to 10Hz

Constellations

Ordering Information:

32-5242-6-10-05-ccc

ccc= Custom Configuration (Contact Tallysman for "Custom" details e.g. configuration, radio cable type.

e.g. PC0= NMEA out, no adaptor cable

TC3= Tait NMEA, 27-0118-1 radio cable

TW5242 Configuration Cable

27-0117-0 T

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



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Tallymatics manufactures high performance, telematics products and solutions for a wide range of applications. With support for both RF wireless and data networks, Tallymatics enables high-resolution location awareness of mobile field assets across any type of wireless network. Tallymatics is a division of Tallysman.

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