TW5342



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TW5342 Smart GNSS Antenna

Overview

The TW5342 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 TW5342 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 TW5342 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 TW5342 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 enables simple configuration of parameters such as baud rates, output message rates, constellation, tracking parameters.

Interface

The TW5342 has a 5 meter cable terminated in RJ45 connector. Adaptor cables are available to interface to for 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)
- Conditioned ignition input for Tait Radios

- 12V to 36V automotive operation
- Excellent multi-path signal rejection
- Industrial grade IP69K enclosure
- RoHS, Reach, RED compliant, CE Marking

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Specifications

Antenna	Environmental
Architecture	Operating Temperature
Navigation Accuracy GPS+GLONASS	Sensitivity
Interface	Acquisition146 dBm Tracking162 dBm
OutputsPwr, Gnd, Tx, Ignition sense InputsRx, Ignition RS232	Time to First Fix Cold start
Mechanical	Warm start
Dimensions	Reacquisition<1 sec
Weight180 g Mounting MethodThru-Hole Mount	Serial Protocol
Cable Length5 m with RJ45 termination EnclosureIndustrial grade weatherproof IP67	OutputNMEA 0183 Baud RateConfigurable Update RateConfigurable up to 10Hz Constellations
Electrical	
Voltages9 V to 36 VDC Current	

Ordering Information:

33-5342-6-yy-05-ccc

yy= Radome (10= Grey low profile, 11= White low profile)

40 mA operating

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

e.g. PC0= NMEA out, No Adaptor cable

27-0028-0 Radio Cable

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



TC3= Tait NMEA

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TC3= Tait NMEA, 27-0028-0 radio cable

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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