TW5252



TW5252 Smart GNSS Antenna

Overview

The TW5252 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 TW5252 GNSS Smart Antenna uses a state of the art multiconstellation GNSS receiver which provides 72 high sensitivity tracking channels which can be configured to acquire and track 3 concurrent GNSS constellations (GPS, Galileo, GLONASS and Beidou) plus SBAS (WAAS, EGNOS, MSAS and GAGAN) and QZSS augmentation signals simultaneously. Differential GPS corrections may also be supplied via RTCM formatted corrrections messages.

The TW5252 employs Tallysman's Accutenna[™] dual feed antenna patch technology which greatly improves rejection of multi-path signal interference, across the whole GNSS band. The addition of pre- and postfiltering within the RF signal chain greatly improves immunity to jamming carriers typical within urban environments.

The TW5252 can be configured to output a variety of NMEA 0183 message lists with navigation update rates up to 5Hz. An RS232 interface is provided for data communication with input voltage range from 5V to 36V suitable for Automotive applications.

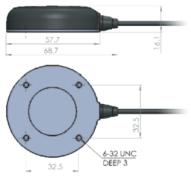
Tallysman's Windows[™] based Configurator enables simple configuration of parameters such as baud rates, output message rates, constellation, tracking parameters.

Interface

The TW5252 has a 5 meter cable terminated in RJ12 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
- Concurrent tracking of 3 constellations
- 72 Channel simultaneous operation
- High performance tracking (-164 dBm)
- WAAS, EGNOS, MSAS & GAGAN + QZSS
- DGPS corrections using RTCM input
- Navigation rates 1 to 5 Hz

- Conditioned ignition input for Tait Radios
- 5V to 36V automotive operation
- Accutenna™ Technology
- Pre- and Post- LNA filtering
- Superior multi-path signal rejection
- Industrial grade IP67 enclosure
- RoHS, Reach, RED compliant, CE Marking

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Specifications

Antenna
Architecture Dual Feed Axial Ratio
Interface
Pwr, Gnd Tx, RXRS232
Mechanical
Dimensions
Electrical
Voltages
Environmental
Operating Temperature

Sensitivity
Tracking & Nav164 dBm 1 Cold starts148 dBm Hot starts157 dBm
Acquisition
Cold start
Accuracy
Position Accuracy
Operational Limits
Dynamics4 gAltitude50,000 mVelocity500 m/s
Serial Protocol
OutputNMEA 0183 InputRTCM Baud RateConfigurable up to 230400 bps Update RateConfigurable up to 5Hz

Ordering Information:

32-5252-7-10-05-ccc

ccc= Custom Configuration (Contact Tallysman for "Custom" details e.g. configuration, radio cable type. e.g. PC0= NMEA out, no adaptor cable TC4 = Tait NMEA, 27–0118–1 radio cable

TW5252 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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