

TW5242



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TW5242 Smart GNSS Antenna

Overview

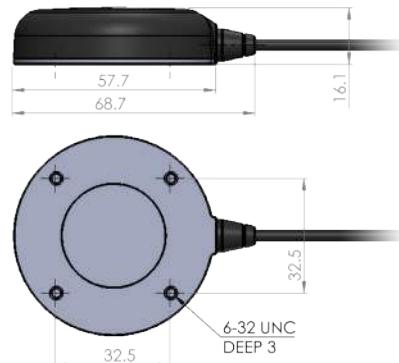
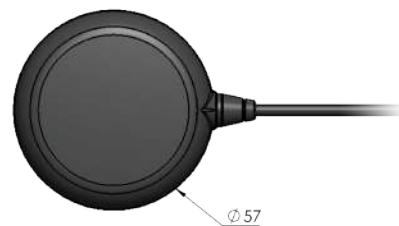
The TW5242 is a multi-constellation GNSS Receiver which provides simultaneous GPS/GLONASS/SBAS reception. It is designed for use in professional grade digital tracking/positioning applications.

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.



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

Antenna		Environmental	
Architecture	Dual Feed	Operating Temperature	-40°C to +85°C
Axial Ratio	<1 dB typical.	Storage Temperature	-45°C to +85°C
Frequencies	GPS / GLONASS / QZSS	Weatherproof	IP67
SBAS	WAAS, EGNOS, MSAS	Shock	Vertical axis 50G, other axis 30G
Channels	32 simultaneous plus 2 fast acquisition	3 axis sweep	- 15 min
Navigation Accuracy		Vibration	10-200 Hz log sweep 3G
GPS+GLONASS	1.55m (50% CEP)		
Interface		Sensitivity	
Outputs	Pwr, Gnd, Tx	Acquisition	-146 dBm
Inputs	Rx	Tracking	-162 dBm
RS232			
Mechanical		Time to First Fix	
Dimensions	57 mm dia. x 15 mm H	Cold start	35 sec
Weight	130 g	Warm start	30 sec
Mounting Method	Magnetic Mount	Hot start	<2 sec
Cable Length	5 m with RJ12 termination	Reacquisition	<1 sec
Enclosure	Industrial grade magnetic mount weatherproof IP67		
Electrical		Serial Protocol	
Voltages	.9 V to 36 VDC	Output	NMEA 0183
Current	.50 mA during acquisition 40 mA operating	Baud Rate	Configurable
		Update Rate	Configurable up to 10Hz
		Constellations	

Ordering Information:

32-5242-6-10-05-ccc

ccc= Custom Configuration (Contact Tallyman 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 Tallyman.

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