

TW5744



The **connection** of things.

TW5744 Smart GNSS Antenna

Overview

The Tallysman Sprite™ TW5744 is an integrated Telematics/GPS Receiver Antenna that can be configured to provide GPS “Event” based reports such as distance travelled, speed alarms, position updates on PTT etc, making this platform uniquely positioned to meet all fleet tracking needs. It can also be configured to provide basic NMEA output.

Digital 2-Way radio systems supported are DMR, P25, MPT1327 and NEXEDGE.

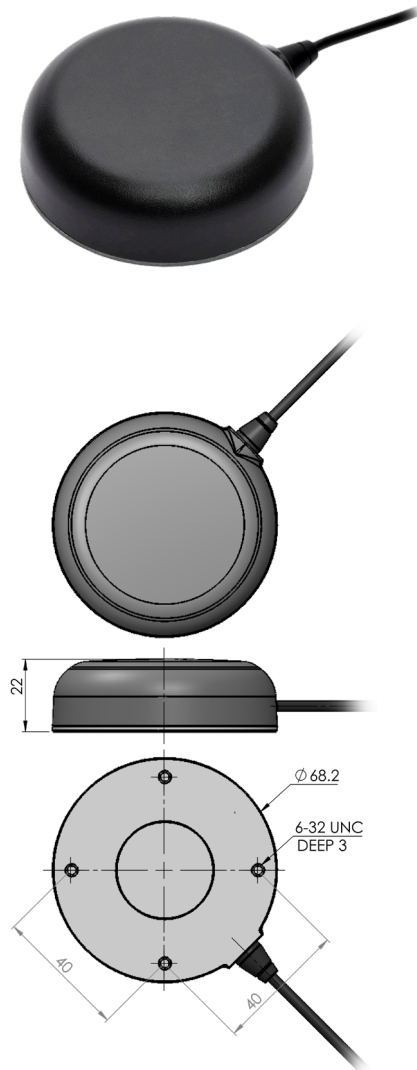
For Tait Radio systems the TW5744 ships with a radio cable (27-0118-1) that provides connection between the TW5744 and the Auxiliary port on the back of the radio.

The TW5744 provides extensive logging capabilities providing storage of location reports for up to 30 days at report rates of up to once per minute. The integrated data compression algorithm can combine up to 125 location reports and events into a single short data transmission enabling sub 10 second tracking reports to be batched and sent every 15 Minutes!. This level of tracking provides location accuracies down to the block level.

The TW5744 provides 32 channel simultaneous reception of GPS/GLONASS systems and employs Tallysman’s Accutenna™ dual feed antenna patch technology which greatly improves positioning accuracy in dense urban environments due to multipath signal interference. The TW5744 is housed in a compact, industrial-grade weather-proof, magnet mount enclosure, with threaded base holes for screw down attach.

Radio Connection

The TW5744 comes with a 5 meter cable terminated in a 6P4C (RJ-11) connector. Interfacing to radios is as simple as connecting a radio adaptor cable.



Mechanical Dimensions (mm)

Features

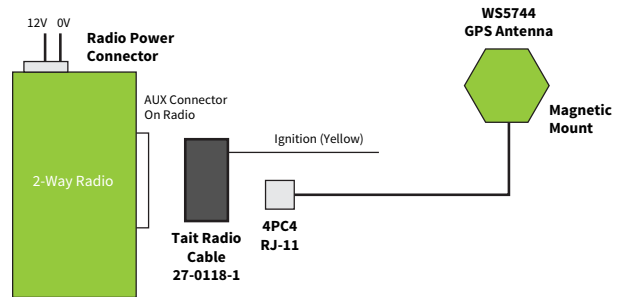
- Integrated Telematic/ GNSS Receiver
- Simultaneous GPS/GLONASS reception
- Event Driven Telematics reports
- High rate logging
- Odometer and waypoint reporting
- Push to talk ID (PTT ID)
- Information maintained across power cycles
- Over Air parameter updates
- Configurable NMEA output
- RoHS, REACH, RED Compliant, CE marking

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Specifications

Antenna	
Frequencies	GPS/GLONASS
Interface	
RS232	DMR, P25, MAP27, NEXEDGE protocols NEMA output
Radio Ignition	Input to radio
Mechanical	
Cable Length	.5 meters (16 feet)
Cable Termination	.RJ-12 6P6C
Electrical	
Voltages	.9 to 16 VDC
Current	.120 mA typical.
Environmental	
Operating Temperature	-.40°C to +85°C
Storage Temperature	-.45°C to +85°C
Weatherproof	.IP69K
Shock	.Vertical axis 50G, other axis 30G
Vibration	.3 axis sweep – 15 min 10-200 Hz log sweep 3G
Sensitivity	
Acquisition	-.146 dBm
Tracking	-.159 dBm

Time to First Fix	
Cold start	.39 sec
Warm start	.34 sec
Hot start	.2 .5 sec
Reacquisition	<.1 sec
Position Accuracy	
Accuracy	.2.8 m 95% CEP



Ordering Information:

32-5744-6-10-05-ccc

ccc= Custom Configuration (Contact Tallysman for “Custom” details e.g. firmware, configuration and radio cable type. e.g. TC1= Tait Trunking, TC2= Tait Conventional, inc 27-0118-1 radio cable

TW5744 Configuration Cable

27-0117-0

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



TALLYMATICS®

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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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