

## Product Highlight

TW7872 Dual Band GNSS Antenna



When precision matters.®

# TW7872 Dual Band GNSS Antenna

Frequency Coverage: L1/L2/G1/G2/E1/B1

The TW7872 is a precision tuned dual band, Accutenna® technology antenna for reception of GPS L1/L2, GLONASS G1/G2, BeiDou B1, Galileo E1 and is especially designed for precision dual frequency positioning. The TW7872 provides superior multi-path rejection and axial ratio, a linear phase response, and tight Phase Centre Variation (PCV), while protecting against intermodulation and saturation caused by high level cellular 700MHz signals. This antenna is ideal for precision agriculture, autonomous vehicle tracking and guidance, and other applications where precision matters.



The TW7872 features a precision tuned, twin circular dual feed, stacked patch element. The signals from the two orthogonal feeds are combined in a hybrid combiner, pre-filtered to minimize interference from out of band signals such as Cellular LTE then amplified in a wide-band LNA and band-split for additional filtering and amplification stages prior to recombination at the output.

The TW7872 provides reception for signals in the bands 1213MHz to 1261MHz and 1557MHz to 1606MHz. It is housed in a magnetic mount, weather-proof enclosure.

This product is also available in an OEM format (TW3867 for 28dB and TW3872E for 35dB).

### Applications

- Precision GPS position
- Dual Frequency RTK systems
- Mission Critical GPS Timing
- Military & Security

### Features

- Very low Noise Preamp, < 2.5dB
- Axial ratio:  $\leq 1.5$ dB typ.
- Tight Phase Center Variation
- LNA Gain 32 dB typ.
- Low current: 24mA typ.
- ESD circuit protection: 15 KV
- Invariant performance from: +2.5 to 16VDC

### Benefits

- Ideal for dual band RTK surveying systems
- Great multipath rejection
- Increased system accuracy
- Great signal to noise ratio
- IP67, REACH, and RoHS compliant



Contact NavtechGPS for product details. [www.NavtechGPS.com](http://www.NavtechGPS.com)  
+1-703-256-8900 • 800-628-0885 • [info@navtechgps.com](mailto:info@navtechgps.com)

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### Product Information

Model	Mounting	Frequencies	Amplifier Gain
TW7872	Surface Mount / Magnet / Direct Screw / Adhesive	L1/L2/G1/G2/E1/B1	32 dB typ.

Remarks: *Prefiltered*

[Learn More](#)

[TW7872 Datasheet](#)

### Ordering Information

TW7872 – Dual Band GNSS antenna

Part Number: 33-7872-xx-yyyy, where xx = connector type and yyyy = Cable length in mm (where applicable)

### Related Information

- [Tallysman Antenna Selection Guide](#) – Finding the right antenna for your application
- [Tallysman Ordering Guide](#) – View the wide range of “standard” customizations for Tallysman’s entire antenna line



Contact NavtechGPS for product details. [www.NavtechGPS.com](http://www.NavtechGPS.com)  
+1-703-256-8900 • 800-628-0885 • [info@navtechgps.com](mailto:info@navtechgps.com)

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**Contact us:**  
[info@tallysman.com](mailto:info@tallysman.com)  
T: +1 613 591-3131