

## Product Highlight

TW3872 Dual Band GNSS Antenna



When precision matters.®

# TW3872 Dual Band GNSS Antenna

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

The TW3872 employs Tallysman's unique Accutenna® technology providing dual band GPS L1/L2, GLONASS G1/G2 + BeiDou B1 + Galileo E1 coverage and is especially designed for precision dual frequency positioning.

The TW3872 features a precision tuned, circular dual feed, stacked patch element. The signals from the two orthogonal feeds are combined in a hybrid combiner, amplified in a wide-band LNA, then band-split for narrow filtering in each band and further amplified prior to recombination at the output.



The TW3872 offers excellent axial ratio and a tightly grouped phase center variation.

The TW3872 covers GPS L2 (1227.6MHz), GLONASS G2 (1248MHz centre), GPS L1/WAAS/EGNOS/MSAS (1575.42MHz), GLONASS G1 (1602MHz, centre), BeiDou B1 and Galileo E1. (1561 and 1589 MHz).

The TW3872 has a pre-filter which increases the antenna's immunity to high amplitude interfering signals, such as LTE and other cellular signals.

The TW3872 is housed in a through-hole mount, weather-proof enclosure for permanent installations. L Bracket or Pipe Mount (part numbers 23-0040-0, 23-0065-0 respectively) are available for non-rooftop installation. A 100mm ground plane is recommended for non-roof-top installations.

This product is also available in an OEM formats (TW3865, TW3870E, TW3872E, and TW3868).

### Applications

- Precision GPS position
- Dual Frequency RTK receivers
- Mission Critical GPS Timing
- Military & Security
- Network Timing and Synchronization

### Features

- Very low Noise Preamp, < 2dB
- Axial ratio L1:  $\leq 1$  dB typ. 1.5 dB max.
- Tight Phase Center Variation
- LNA Gain 35 dB typ.
- Low current: 24 mA typ.
- ESD circuit protection: 15 KV
- Invariant performance from: +2.5 to 16VDC

### Benefits

- Ideal for L1/L2 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)  
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## Product Information

Model	Mounting	Frequencies	Amplifier Gain
TW3872	Through-Hole	L1/L2/G1/G2/E1/B1	35 dB typ.

Remarks: *Prefiltered*

[Learn More](#)

[TW3872 Datasheet](#)

## Ordering Information

TW3872 – Dual Band GNSS antenna

Part Number: 33-3872-xx-yy-zzzz, where xx = connector type, yy = shape and colour of radome and zzzz = 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)  
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