

## Product Highlight

TW3872E Embedded Dual Band GNSS Antenna



When precision matters.®

# TW3872E Embedded Dual Band GNSS Antenna

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

The TW3872E employs Tallysman's unique Accutenna® technology providing dual band GPS L1 & L2, GLONASS G1 & G2, Galileo E1, and BeiDou B1 coverage and is especially designed for precision dual frequency positioning.

This antenna 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 wideband LNA, then band-split for narrow filtering in each band and further amplified prior to recombination at the output. The TW3872E has a pre-filter which prevents the front end LNA from being saturated by high near frequency or harmonic signals.

They also offer excellent axial ratio and a tightly grouped phase center variation.

The antenna is supplied with a standard 60mm diameter circular ground plane, with a coaxial cable terminated with a connector (right angle MCX is shown in the drawing). Mounting holes are provided for attachment to larger ground planes. Custom tuning and ground plane options may be available, depending on purchase level commitment.



### 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: < 2dB typ.
- 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 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
TW3872E	OEM / Embedded	L1/L2/G1/G2/E1/B1	35 dB typ.

Remarks: *Prefiltered*

[Learn More](#)

[TW3872E Datasheet](#)

## Ordering Information

TW3872E – Embedded Dual Band GNSS antenna

Part Number: 33-3872E-xx-yyyy-zz, where xx = connector type, yyyy= cable length in mm and zz is reserved for Tallysman’s use

## Related Information

- [Tallysman Antenna Selection Guide](#) – Finding the right antenna for your application
- [Embedded Antenna Reference Guide](#) – Ensure optimal performance with Tallysman’s embedded antennas
- [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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