

Product Highlight

TW7972 Triple Band GNSS Antenna with L-Band



When precision matters.®

TW7972 Triple Band GNSS Antenna with L-Band

Frequency Coverage: L1/L2/L5/G1/G2/G3/E1/E5a/E5b/B1/B2/B2a + L-band

The TW7972 is precision tuned triple band, Accutenna® technology antenna for reception of GPS L1/L2/L5, GLONASS G1/G2/G3, BeiDou B1/B2, Galileo E1/E5a+b plus L-band corrections signals. The TW7972 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.



Architecturally, the TW7972 features a dual feed circular stacked patch element. The signals from the two orthogonal feeds are summed in quadrature, pre-filtered in a low loss filter to protect against a wide range of potentially interfering signals, amplified in high linearity, wide-band LNA, then band-split, tightly filtered and amplified prior to signal recombination at the output.

The TW7972 provides reception for signals in the bands 1164MHz to 1254MHz and 1525MHz to 1606MHz. It is housed in a magnetic mount, weather-proof enclosure.

This product is also available in an OEM format (TW3967 for 28dB and TW3972E for 35dB).

Applications

- Precision GPS position
- Triple Frequency RTK systems (base and rovers)
- Positive Train Control (PTC) systems
- Military & security

Features

- Very low Noise, Pre-filtered Preamp, 2.5dB
- Axial ratio: <2dB 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 triple band RTK systems
- Great multipath rejection
- Increased system accuracy
- Great signal to noise ratio
- IP69K, REACH, and RoHS compliant



Contact NavtechGPS for product details. www.NavtechGPS.com
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Product Highlight

TW7972 Triple Band GNSS Antenna + L-Band

Product Information

Model	Mounting	Frequencies	Amplifier Gain
TW7972	Surface Mount / Magnet / Direct Screw / Adhesive	L1/L2/L5/G1/G2/G3/E1/E5a/E5b/B1/B2/B2a, L-Band Corrections	32 dB typ.

Remarks: *Prefiltered*

[Learn More](#)

[TW7972 Datasheet](#)

Ordering Information

TW7972 – Triple Band GNSS antenna with L-Band Correction

Part Number: 33-7972-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



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