

Product Highlight

TW3972 Triple Band GNSS Antenna with L-Band



When precision matters.®

TW3972 Triple Band GNSS Antenna with L-Band

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

The TW3972 is an Accutenna® technology antenna providing triple band GPS L1/L2/L5, GLONASS G1/G2/G3, BeiDou B1/B2, Galileo E1/E5a+b plus L-band correction services coverage and is especially designed for precision triple frequency positioning. The TW3972 provides superior multi-path signal rejection, a linear phase response, and tight Phase Centre Variation (PCV). This antenna is ideal for precision agriculture, autonomous vehicle tracking and guidance, and other applications where precision matters.



The TW3972 features a precision tuned, twin 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 bandsplit for narrow filtering in each band and further amplified prior to recombination at the output. The antenna also has a strong pre-filter to mitigate intermodulated signal interference from LTE and other cellular bands.

The TW3972 offers excellent axial ratio and a tightly grouped phase center variation. The TW3972 covers from 1164MHz to 1254MHz and 1525MHz to 1606MHz.

The TW3972 is housed in a through-hole mount, TW3972 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 format (TW3967 for 28dB and TW3972E for 35dB).

Applications

- Precision GPS position
- Triple Frequency RTK receivers
- Military & security

Features

- Very low Noise Preamp, < 2.5dB
- Axial ratio: < 1.5 dB typ.
- Tight Phase Center Variation
- LNA Gain 37 dB typ.
- Low current: 24 mA typ.
- ESD circuit protection: 15 KV
- Invariant performance from: +2.5 to 16VDC

Benefits

- Ideal for triple band RTK surveying systems
- Great multipath rejection
- Increased system accuracy
- Great signal to noise ratio
- IP67, IP69K, REACH, and RoHS compliant



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

TW3972 Triple Band GNSS Antenna + L-Band

Product Information

Model	Mounting	Frequencies	Amplifier Gain
TW3972	Through-Hole	L1/L2/L5/G1/G2/G3/E1/E5a/E5b/B1/B2, L-Band Corrections	37 dB typ.

Remarks: *Prefiltered*

[Learn More](#)

[TW3972 Datasheet](#)

Ordering Information

TW3972 – Triple Band GNSS antenna with L-Band Correction

Part Number: 33-3972-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
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