

Product Highlight

TW1721 / TW1722 Embedded Dual Band GNSS Antenna



When precision matters.®

TW1721 / TW1722 Embedded Dual Band GNSS Antenna

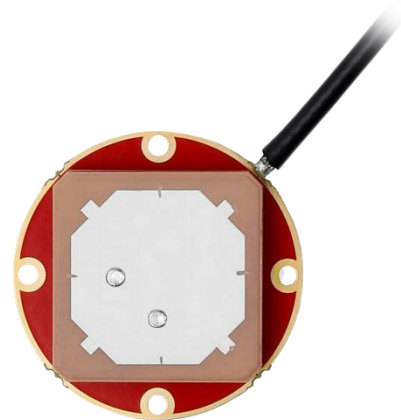
Frequency Coverage: L1/G1/E1/B1

The TW1721/TW1722 is a compact, wideband GNSS antenna employing patented Accutenna® technology. This antenna provides accurate reception for all upper L- band GPS, GLONASS, Beidou, and Galileo signals (L1, G1, B1, B1 BOC, B1-2, E1) and associated augmentation signals (WAAS, EGNOS and MSAS).

The TW1721/TW1722 features a novel 25mm dual feed wideband patch element that, in sharp contrast with its competitors, provides a truly circularly polarized response, with a typical axial ratio of less than 2dB over the full bandwidth. This provides a more linear carrier phase response and substantially improved multipath rejection for higher precision applications.

The built-in 35mm circular ground plane should ideally be augmented with a local system ground plane or reflecting surface (DC connection not required).

The TW1722 is the pre-filtered version of the TW1721. The pre-filter provides protection from strong near frequency or harmonic signals, such as LTE. OEM antennas are easily detuned by the local environment. Tallysman offers custom tuning services for optimized integration into OEM end-user modules.



Applications

- High Accuracy BeiDou, Galileo, GPS & GLONASS
- Precision Agriculture, Mining & Construction
- Military & Security
- Avionics
- Law Enforcement & Public Safety
- Fleet Management & Asset Tracking

Features

- Compact Dual Feed Patch Element
- 2 dB bandwidth 1559-1606MHz
- Very low noise LNA: <1 dB (TW1721)
- Axial ratio: 2 dB typ
- LNA gain: 28 dB typ.
- Wide voltage input range: 1.8 to 16 VDC
- ESD circuit protection: 15KV
- Temperature Compensated Gain

Benefits

- Great multipath rejection
- Increase system accuracy
- Improved carrier phase linearity
- Excellent signal to noise ratio
- Great out of band signal rejection
- Compact form factor
- RoHS compliant
- Reliable performance



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

Model	Mounting	Frequencies	Amplifier Gain
TW1721 / TW1722	OEM / Embedded	L1/G1/E1/B1	28 dB typ.

Remarks: TW1722 Prefiltered

Learn More: [TW1721 / TW1722](#)

[TW1721 / TW1722 Datasheet](#)

Ordering Information

TW1721 – Embedded Dual Band GNSS antenna 33-1721-xx-yyyy-zz

TW1722 – Pre-filtered Embedded Dual Band GNSS antenna 33-1722-xx-yyyy-zz

Where xx = connector type yyyy= cable length (in mm) and zz = 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
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