

TW3972



Multi-Constellation Triple-Band Antenna

Frequency Coverage: GPS L1, L2, L5 | GALILEO E1, E5a, E5b | BEIDOU B1, B2a, B2b | GLONASS G1, G2, G3 | NavIC L5 + L-Band

The TW3972 is a precision-tuned triple-band Accutenna® technology antenna providing triple-band GPS/QZSS-L1/L2/L5, GLONASS-G1/G2/G3, Galileo-E1/E5a/E5b, BeiDou-B1/B2/B2a, NavIC-L5, including the satellite-based augmentation system (SBAS) available in the region of operation [WAAS (North America), EGNOS (Europe), MSAS (Japan), or GAGAN (India)], plus L-band Corrections coverage, and is especially designed for precision triple-frequency positioning.

Ideal for train control sensors, autonomous vehicle tracking and guidance, precision agriculture, and other applications where precision matters, The TW3972 provides superior multipath signal rejection, a linear phase response, and tight phase centre variation (PCV).

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 wideband LNA, then band-split 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 inter-modulated signal interference from LTE and other cellular bands. The TW3972 offers excellent axial ratio and a tightly grouped phase centre variation.

The TW3972 meets all requirements of the Association of American Railroads (AAR)'s Electronics Environmental Requirements and System Management Standard (S-9401.V1.0). In addition, it is also compliant with the EN45545-2, EN50121, EN50155, and EN61373 standards.

The TW3972 is housed in a through-hole mount, weatherproof enclosure for permanent installations. L-bracket (PN 23-0040-0) or pipe mount (23-0065-0) are available. A 100-mm ground plane is provided with the antenna, which ensures optimal performance. This antenna is also available in an OEM format: TW3967 (28 dB) and TW3972E (37 dB).



Applications

- Autonomous vehicle tracking and guidance
- Positive Train Control (PTC)
- Positive Train Location (PTL)
- Precision GNSS position
- Precision agriculture
- Triple-frequency RTK and PPP receivers
- Law enforcement and public safety
- Automotive Positioning (Supports ADAS)

Features

- Very low noise preamp (< 2.5 dB typ.)
- Low axial ratio (< 2.0 dB typ.)
- Tight phase centre variation
- High-gain LNA (37 dB typ.)
- Low current (24 mA typ.)
- ESD circuit protection (15 kV)
- Invariant performance from 2.5 to 16 VDC

Benefits

- Excellent multipath rejection
- Increased system accuracy
- Excellent signal-to-noise ratio
- CE RED, RoHS, and REACH compliant
- EN45545-2, EN50121, EN50155, and EN61373 compliant
- AAR Certified

About Calian: With global headquarters and manufacturing in Ottawa, Canada, Calian is a leading manufacturer of high-precision antennas and components for Global Navigation Satellite System (GNSS) applications. Calian's mission is to support the needs of a new generation of positioning systems by delivering unprecedented antenna precision at competitive prices. Learn more at www.calian.com

Revision: 202407

Contact us:
info@tallysman.com
T: +1 613 591-3131

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Antennas](#) category:

Click to view products by [Tallysman](#) manufacturer:

Other Similar products are found below :

[930-033-R](#) [A09-F8NF-M](#) [108-00016-050](#) [W1049B090](#) [WTL2449CQ1-FRSMM](#) [0600-00060](#) [GD53-25](#) [S9025PLSMF](#) [GPSCPMM00](#) [ANT-WP868SMA-Y](#) [CBNC58](#) [MD10-004](#) [ABFT](#) [LP800NMOW](#) [NMOQ88C](#) [NMOQB](#) [NMOQC](#) [ANT-GSMGPSPUKS](#) [60210](#) [60140](#) [ANT-8WPIG-UFL](#) [ANT-GPSPUKS](#) [A21H0](#) [29000863](#) [EXD450TN](#) [2.4GHz 2dBi-1.13-L=50mm](#) [3E0702BK-005](#) [22100003](#) [DL-T022-2.4G](#) [DL-T023-4G](#) [T1-915M](#) [DL-T021-2.4GW](#) [DL-T021-2.4G](#) [KH-IPEX-1.13](#) [BWGNSCNX16-6B1Y2L120](#) [BWGNSCNX15-15B1Y4L120](#) [DL-T023-4GW](#) [3N0401LG-021](#) [KHA\(RG1.13\)-TX90B-IPEX](#) [KHA\(RG1.13\)-TX80B-IPEX](#) [KH-137-TX90B-IPEX4](#) [KH-113-TX100B-IPEX4](#) [KH-113-TX60B-IPEX4](#) [KH-081-TX300-IPEX](#) [3K0001BK00-001](#) [3K0001BK00-002](#) [3N0401LG-038](#) [3N0401BK-049](#) [PRO-OB-440](#) [DL-F8-5G](#)