

TW5394 Datasheet

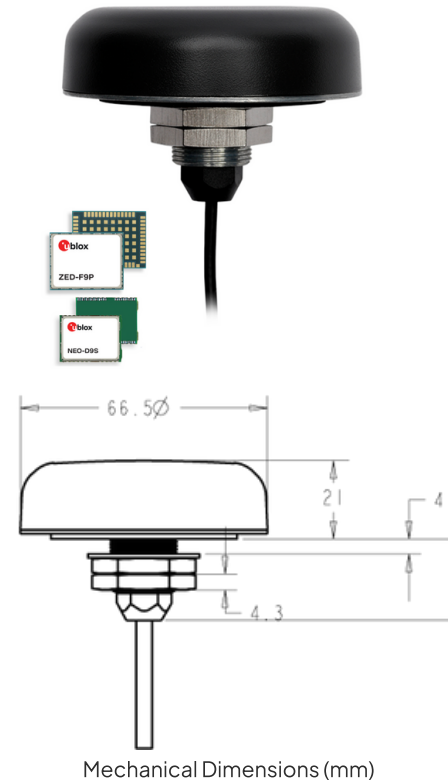
TW5394 Smart GNSS Antenna for Precise Positioning and Heading

Overview

The TW5394 is a multi-band (L1/L2), multi-constellation integrated GNSS receiver/antenna with integrated L-Band receiver for PointPerfect Flex PPP-RTK corrections. The TW5394 is capable of providing sub 1 meter accuracy stand alone, sub 6 cm accuracy with PPP-RTK corrections and sub 1 cm with RTK corrections to support the most demanding navigation, automation and precision mobility applications. Two TW5394's may be combined as a Moving Base RTK Precise Heading base and rover pair.

Interference Resilience

The TW5394 incorporates a latest generation multi-band (L1/L2) GNSS receiver with a Tallysman Accutenna® multi-band (L1/L2/LBand) triple band dual feed patch. The state of the art GNSS receiver supports concurrent tracking of all four major constellations (GPS, BeiDou, Galileo and GLONASS) in multiple frequency bands. The multi-band (L1/L2) architecture is highly effective method for the removal of ionospheric error. The TW5394 employs multi-stage filtering with low noise figure LNAs, combined with the dual feed Accutenna®, which greatly improves the rejection of multi-path signal interference.



Precise Point Positioning

The TW5394 offers support for a broad range of corrections services (RTCM RTK, networked PPP-RTK or PointPerfect Flex PPP-RTK over L-Band) allowing performance optimization according to each application's unique requirements. The concurrent multi-band (L1/L2) access to all four satellite constellations improves the receiver's convergence capability to deliver a quick, precise and reliable position solution which is resilient to ionospheric errors and improves resilience against interference and jamming.

The TW5394 may also be configured to operate in an RTK mode as either a base or rover for sub cm precision. For Precise Heading applications, two TW5394's may be arranged as a moving base RTK base and rover pair. The base device may receive PPP-RTK corrections for increased positional accuracy while concurrently sending RTCM correction messages to the rover.

Features:

- Improved noise immunity with multi-band u-blox ZED F9P GNSS receiver
- PointPerfect Flex PPP-RTK (networked and L-Band)
- Improved multi-path rejection with Dual feed Accutenna®
- Multi-band GNSS receiver is resilient to ionospheric errors
- High reliability timing with expansive constellation array
- Moving base RTK Precise Heading base/rover pair
- Exceptional position performance standalone without correction services
- 5V operation
- RS-422 differential (or RS-232) signalling
- Industrial grade IP69K enclosure
- Rugged fixed mount
- Multiple cable lengths (5m, 15m and 25m)
- Available with conical radome

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