◎ TW5386 High-Precison Smart GNSS Antenna with PPP-RTK and IMU SDK
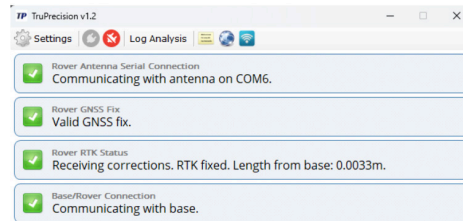
Calian's High Precision Tallysman **Smart GNSS antennas** integrate advanced receivers with High Precision Tallysman GNSS antennas, connecting Position, Navigation and Timing resources to host systems over digital interfaces.

Calian Smart GNSS SDK's are a plug and play evaluation platform for Calian's Smart Antennas, with tools such as, TruPrecision Software, short term complementary augmentation subscription services and simple connection to a PC.

The TP5386SDK supports the TW5386 High Precision GNSS Smart Antenna with the following features:

- MQTT client for PointPerfect PPP-RTK Corrrections over terrestrial network (<6cm accuracy)

- NTRIP client for RTK Rover Configurations (<cm accuacy)

- NMEA monitoring, satellite visibility and signal strength, GNSS status monitoring, Inertial Measurement Unit Sensor Fusion status and logging tools with visual state heat-map

- Status console to pinpoint issues between antenna, corrections and network connections

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Calian TW5386 High Precision GNSS Antenna SDK

PointPerfect
GNSS augmentation service

60 Days Complementary PointPerfect GNSS Augmentation Service

ZED-F9R

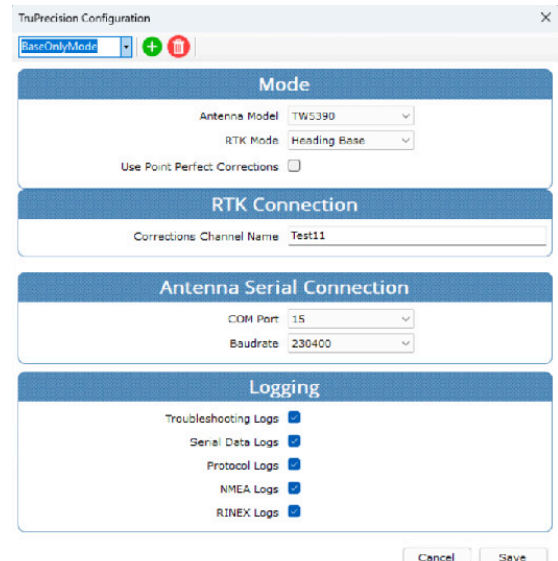**TW5386 Smart GNSS Antenna**

TruPrecision Software

Serial to USB Bridge
33-0095-10 (RS-422)
33-0095-13 (RS-232)

◉ TW5386 SDK ordering:

- **33-TP5386SDK-0**: Calian 33-5386-07-10-05-PC0 (RS-422) + 33-0095-10 USB to serial bridge
- **33-TP5386SDk-2:** 33-5386-27-10-05-PC0 (RS-232) + 33-0095-13 USB to serial bridge
- **All kits SDK's include:**
  - link to Calian TruPrecision Application for PointPerfect IP correction streaming
  - 60 day trial subscription to the PointPerfect augmentation service

The TruPrecison SDK application is a Windows service which provides an autonomous connection to stream PointPerfect IP corrections and decryption keys to the TW5386 Smart Antenna via a USB Serial Bridge which also provides a Virtual COM Port to allow customers to connect their existing applications to the Calian Smart GNSS Antenna high precision "corrected" position data output. The position data may be either NMEA or UBX formatted messages.

**ublox
Design Partner**