

## TW5790 High-Precision Smart GNSS Antenna with L-Band PPP-RTK SDK

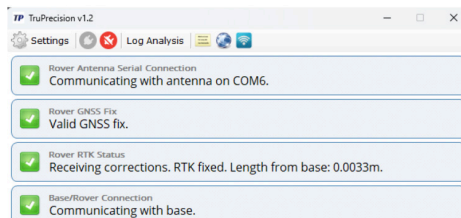
Calian's High Precision Tallysman **Smart GNSS antennas** integrate advanced receivers with High Precision Tallysman GNSS antennas, connecting Position, Navigation and Timing resources to host systems over digital interfaces.

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 complimentary augmentation subscription services and simple connection to a PC.

The TW5790 SDK supports the TW5790 High Precision GNSS Smart Antenna with L-Band PPP-RTK. TW5790 incorporates the u-Blox ZED-F9R GNSS receiver and NEO-D9S L-Band receiver. It features:

- MQTT client for PointPerfect PPP-RTK Corrections over LBand or terrestrial network (<6cm accuracy)
- NTRIP client for RTK Rover Configurations; local or Point One Navigation Polaris RTK or Swift Navigation Skylark corrections (cm-level accuracy)
- NMEA monitoring, satellite visibility and signal strength, GNSS status monitoring, Inertial Measurement Unit (IMU) monitoring and logging tools, with visual state heat-map
- Status console to pinpoint issues between antenna, connections and network corrections
- Complimentary trials of u-blox PointPerfect PPP-RTK service, Swift Navigation Skylark Cx Precise Positioning service and Point One Navigation Polaris RTK Service

## Calian TW5790 High Precision Smart GNSS Antenna with L-Band SDK



**TW5790 Smart GNSS Antenna**

**TruPrecision Software**

**Complimentary corrections trials**

### TW5790 SDK includes:

- 1x Calian TW5790 Dual Frequency Precision Smart Antenna/Receiver with L-Band receiver (USB or RS-232 see ordering information)
- 1x 23-0067-14: 10 cm ground plane
- Calian TruPrecision Application for PointPerfect IP correction streaming
- Trial subscriptions: PointPerfect PPP-RTK (60 days); Swift Navigation Skylark Cx (6 months); Point One Navigation Polaris RTK (2 weeks)

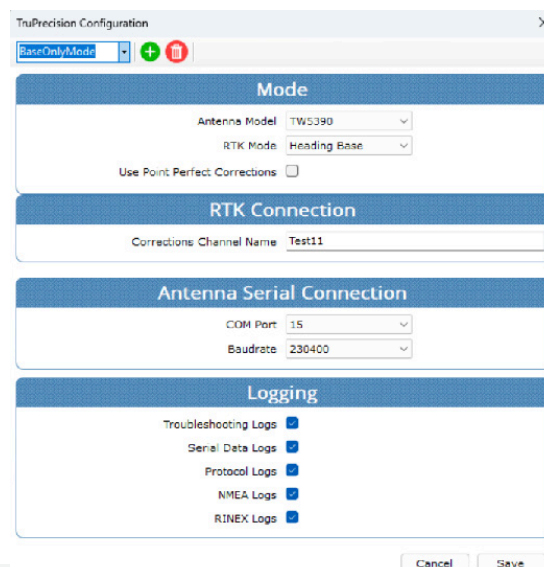
#### **Ordering Information:**

- 33-TP5790SDK-1 (USB) (33-5790-19-10-OS USB);
- 33-TP5790SDK-2 (RS-232) (33-5790-29-10-05-PC0 RS-232 + Serial to USB Converter)

The TruPrecision SDK application is a Windows application which provides an autonomous connection to stream PointPerfect, Swift Navigation Skylark and PointOne Polaris corrections and decryption keys to the TW5790 Smart Antenna, which also provides a Virtual COM Port to allow customers to connect their existing applications to the Calian Tallysman Smart GNSS Antenna high precision “corrected” position data output. The position data may be either NMEA or UBX formatted messages. ROS2® Drivers are available for integration with ROS2 open framework projects.

#### **ROS2® Drivers**

<https://github.com/Calian-gnss/calian-gnss-ROS2-drivers>



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