

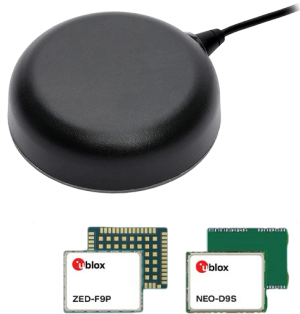
## 📍 TW5794 Precise Heading SDK

You want to know exactly where your drone or robot is, and where it is going, without second-guessing your design.

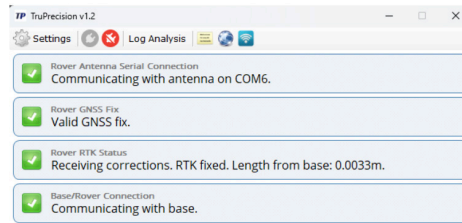
Calian's TW5794 Smart GNSS Precise Heading Antenna is the Plug and Play solution to Precise Heading for Robotics. Calian Smart GNSS SDK's are a plug and play evaluation platform for Calian's Smart Antennas, with tools such as: TruPrecision Software, short term complimentary augmentation subscription services and simple connection to a PC.

The TW5794 SDK supports the TW5794 High Precision GNSS Smart Antenna with L-Band PPP-RTK and Precise Heading. TW5794 incorporates the u-Blox ZED-F9P GNSS receiver and NEO-D9S L-Band receiver. It features:

- MQTT client for PointPerfect PPP-RTK Corrections over L-Band or terrestrial network ( sub 6cm accuracy)
- NTRIP client for RTK Base/Rover Configurations (cm-level accuracy)
- NMEA monitoring, satellite visibility and signal strength, GNSS status monitoring and logging tools with visual state heat-map
- Status console to pinpoint issues between antenna, corrections and network connections
- Complimentary trials of:
  - u-Blox PointPerfect PPP-RTK Service (60 days);
  - Swift Navigation Skylark Cx Precision Positioning Service (6 months);
  - Point One Navigation Polaris RTK Service (2 weeks)



TW5794 Smart GNSS Antenna



TruPrecision Software



Complimentary corrections trials

## 🔗 TW5794 Precise Heading SDK includes:

- 1 x Calian TW5794 Smart GNSS Precise Heading antenna with USB or RS-232 (see below ordering information)
- 1 x 23-0067-14: ten cm ground plane
- Calian TruPrecision Application for Software Development and Verification
- Trial subscriptions: PointPerfect PPP-RTK (60 days); Swift Navigation Skyark Cx (6 months); Point One Navigation Polaris RTK (2 weeks)

### Ordering Information:

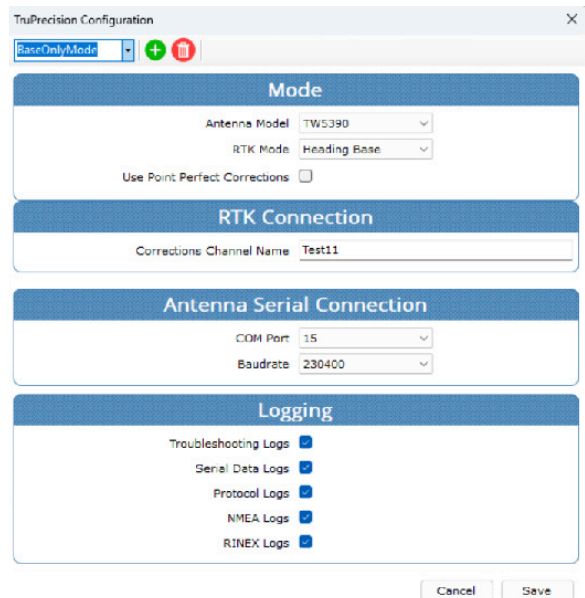
- 33-TP5794SDK-1 (33-5794-19-10-05 - USB);
- 33-TP5794SDK-2 (33-5794-29-10-05 - RS-232 + Serial to USB Converter)

The TruPrecision SDK application is a Windows application which provides an autonomous connection to stream corrections and decryption keys to the TW5794 Smart Antenna via USB, which also provides a Virtual COM Port to allow customers to connect their existing applications to the Tallysman TW5794 Smart GNSS Precise Heading Antenna high precision “corrected” position data output. The position data may be either NMEA or UBX formatted messages. ROS2<sup>®</sup> Drivers are available to integration with ROS2 open framework projects.



ROS2<sup>®</sup> Drivers

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



### About Calian

We keep the world moving forward. Calian<sup>®</sup> helps people communicate, innovate, learn and lead safe and healthy lives. Every day, our employees live our values of customer commitment, integrity, innovation and teamwork to engineer reliable solutions that solve complex problems. That's Confidence. Engineered. A stable and growing 40-year company, we are headquartered in Ottawa with offices and projects spanning North American, European and international markets. Visit [calian.com](http://calian.com) to learn about innovative healthcare, communications, learning and cybersecurity solutions.

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