

# TP5790SDK

## TP5790 High-Precision Smart GNSS Antenna with L-Band PPP-RTK SDK



### 📍 TW5790 Smart GNSS Antenna | High-Precision | IMU | u-blox ZED-F9R + NEO-D9S | L-Band PPP-RTK

#### Overview

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

Calian SDK's are a plug-and-play evaluation platform for our Smart Antennas with tools such as: TruPrecision Software, complimentary augmentation subscription services and USB bridge devices, as required, for plug and play operation.

#### Features:

- MQTT client for PointPerfect Flex PPP-RTK Corrections over LBand or terrestrial network (sub 6cm accuracy).
- NTRIP client for RTK Base/Rover Configurations (cm-level accuracy).
- Compatible with network and local RTK.
- NMEA monitoring, satellite visibility and signal strength, GNSS status monitoring, Inertial Measurement Unit monitoring and logging tools, with visual state heat-map.
- Status console to pinpoint issues between antenna, connections and network corrections.
- Limited trials for subscription services.
- ROS2® drivers also available (click logo on page 2).

#### Complimentary trials of:

- u-Blox PointPerfect Flex PPP-RTK Service (60 days).
- Swift Navigation Skylark Cx Precision Positioning Service (6 months).
- Point One Navigation Polaris RTK (1 year free service).

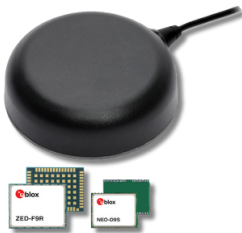
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### TP5790SDK

#### What's included:

The Calian TruPrecision SDK is a Windows application which provides an autonomous connection to stream PointPerfect Flex, Swift Navigation Skylark and PointOne Polaris corrections and decryption keys for the TP5790 Smart Antenna. Additionally, a Virtual COM Port is provided to allow customers to connect to their existing applications within the Calian Smart GNSS Antenna high precision "corrected" position data output. The position data may be either NMEA or UBX formatted messages.



TP5790 Smart GNSS Antenna



TruPrecision Software



TruPrecision Software Configuration

#### TP5790SDK includes:

- Calian TP5790 Dual Frequency Precision Smart Antenna/Receiver with L-Band receiver
- Calian 1x 23-0067-14: 10 cm ground plane (see ordering information)
- Calian TruPrecision Application for correction streaming
- Complimentary corrections services trials (see feature list on page one)

#### Ordering Information:

- **33-TP5790SDK-1:** (USB)(33-5790-19-10-OS USB)
- **33-TP5790SDK-2:** (RS-232)(33-5790-29-10-05-PC0 + 33-0095-16)



Complimentary Corrections Trials



Receivers



ROS2® Drivers  
(Click logo)

#### About Calian

We keep the world moving forward. Calian® 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.