

TP5390 SDK

TP5390 High-Precision Smart GNSS Antenna with IMU, L-Band PPP-RTK SDK



🔗 TP5390 Smart GNSS Antenna | High-Precision | IMU | u-blox ZED-F9R + NEO-D9S | L-Band

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 PPP-RTK Corrections over L-Band (sub 6 cm accuracy).
- NTRIP client for RTK Rover Configurations (cm-level accuracy).
- Compatible with network and local RTK.
- NMEA monitoring, satellite visibility and signal strength, GNSS status monitoring, Inertial measurement Unit (IMU) Sensor Fusion status and logging tools with visual heat-map.
- Status console to pinpoint issues between antenna, corrections and network connections.
- Limited trials for subscription services.
- ROS2® drivers also available (click logo on page 2)

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)

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What's included:

The Calian TruPrecision SDK is a Windows application which provides an autonomous connection to stream RTK corrections and decryption keys to the TW5390 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.



TW5390 Smart GNSS Antenna



Serial to USB Bridge



TruPrecision Software



TruPrecision Software Configuration

TP5390 SDK includes:

- Calian TW5390 Dual Frequency Precision Smart Antenna/Receiver with L-Band receiver and IMU
- Calian 1 x 23-0067-0: 10 cm ground plane
- Calian TW5390 USB Serial Bridge (see ordering information)
- Calian TruPrecision Application for correction streaming
- Complimentary corrections services trials (see feature list on page one)

Ordering Information:

- 33-TP5390SDK-0 (RS-422 RJ45) (33-0095-11 USB-Serial)
- 33-TP5390SDK-2 (RS-232 RJ45) (33-0095-16 USB-Serial)



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 to learn about innovative healthcare, communications, learning and cybersecurity solutions.