

TP5386 SDK

TP5386 High-Precision Smart GNSS Antenna with PPP-RTK and IMU SDK



[TP5386 Smart GNSS Antenna | High-Precision | IMU |](#) u-blox ZED-F9R

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 terrestrial network (sub 6 cm accuracy).
- NTRIP client for RTK Rover Configurations (cm-level accuracy).
- 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.
- 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:

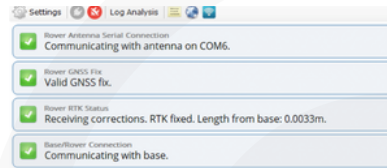
The Calian TruPrecision SDK is a Windows application which provides an autonomous connection to stream PointPerfect IP corrections and decryption keys to the TP5386 Smart Antenna via a USB Serial Bridge which also provides a Virtual COM Port to allow customers to connect their existing applications to the Calian Smart GNSS Antenna high precision “corrected” position data output. The position data may be either NMEA or UBX formatted messages.



TP5386 Smart GNSS
Antenna



Serial to
USB Bridge



TruPrecision
Software



TruPrecision Software
Configuration

TP5386 SDK includes:

- Calian TP5386 High-Precision Smart GNSS Antenna with PPP-RTK and IMU SDK
- Calian 1 x 23-0067-0: 10 cm ground plane
- Calian 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-TP5386SDK-0:** 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



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