

TP5387SDK-PTONE



TP5387SDK-PTONE High-Precision Smart GNSS Antenna with RTK and IMU SDK

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RTK



📍 TW5387 Smart GNSS Antenna | High-Precision | IMU | RTK | ST TESEO V (Quectel LG69TAP) | Complimentary Point One Navigation Polaris Trial

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 licenses to Polaris RTK corrections from Point One Navigation, and USB bridge devices, as required, for plug and play operation.

Features:

- NTRIP client for RTK Base/Rover Configurations (cm-level accuracy).
- Compatible with network and local RTK.
- Improved noise immunity with multi-band ST TESEO V GNSS Receiver chipset (Quectel).
- 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.
- ROS2® drivers also available (click logo on page 2).
- **Complimentary Trial: Point One Navigation Polaris RTK corrections service (1 year).**

Get a free year of GNSS corrections for your Calian antenna

Access to the world’s largest, professionally-run RTK corrections network. Get unmatched coverage, accuracy, and security. Get your promo code for a free year when you purchase a Calian Smart Antenna.

→

LEARN MORE
pointonenav.com/calian-dev-kit



ACCESS TO

1-3 centimeter
Horizontal and vertical accuracy

Immediate fix time
Instant convergence with True RTK

Global coverage
Available across the US, UK, EU, KOR, AUS, NZ & JP

All four constellations tracked
GPS, Glonass, Galileo & Beidou

GraphQL API
One powerful endpoint for total fleet control

Survey grade installation
Daily monitored security, power, and connectivity redundancy

Includes access to Virtual RTK
Leveraging SSR technology

RTCM correction data
Via NTRIP or custom API

Base stations
Designed, manufactured & assembled in the USA

QUALIFY FOR

Engineering support
For your project or application

Positioning engine & dead reckoning
Software for GPS-denied localization

OEM pricing
For projected production volumes

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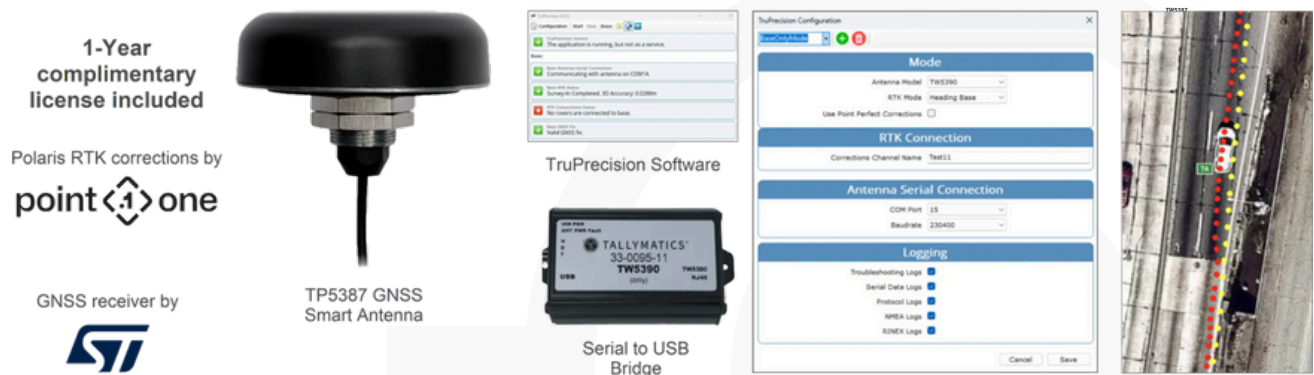


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What's included:

The TruPrecision SDK application is a Windows application to provision your new TW5387 Smart Antenna with a connection and license to Polaris RTK corrections from Point One Navigation. Once provisioned, the antenna continuously generates high precision "corrected" position data output as NMEA formatted messages. The included USB-to-Serial Bridge provides a virtual COM port to allow customers to connect their onboard navigation and mapping applications to receive these messages from the Calian Smart GNSS Antenna in real-time.

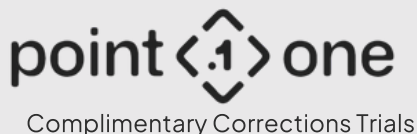


TP5387SDK-PTONE includes:

- Calian TW5387 Smart Antenna (on board Quectel LG69TAP receiver module)
- Calian 1 x 23-0067-0: 10 cm ground plane
- Calian USB Serial Bridge (see ordering information)
- Calian TruPrecision Application for correction streaming
- 1-year complimentary license to Polaris RTK corrections from Point One Navigation

Ordering Information:

- **33-TP5387SDK-PTONE-2:** (RS-232)(33-5387-27-10-05-PC0 + 33-0095-16 USB to serial bridge



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.