

TP5387-SWNAV/SDK



TP5387-SWNAV High-Precision Smart GNSS Antenna with RTK and IMU SDK



swift
NAVIGATION



RTK



📍 TW5387-SWNAV Smart GNSSS Antenna | High-Precision | IMU | RTK | ST TESEO V (Quectel LG69TAP) | Complimentary Skylark 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 augmentation subscription services 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.
- Limited trials for subscription services.
- ROS2® drivers also available (click logo on page 2).
- **Complimentary Trial: Swift Navigation Skylark Nx Precise Positioning Service (6 months).**



Swift Navigation's Skylark® Precise Positioning Service is a global, cloud-based GNSS corrections service that delivers reliable precision continent-wide. Designed to meet diverse application needs, Skylark is available in three distinct variants—Skylark Cx, Nx RTK, and Dx—each optimized for specific use cases, ensuring the right balance of performance and practicality.

Skylark Cx is a PPP-RTK corrections service that delivers uniform centimeter-level accuracy across continents. With 3–7 cm accuracy and a fast convergence time of under 20 seconds, its performance remains consistent, regardless of distance from base stations—providing seamless accuracy at a national and continental scale.

(Learn more about Skylark: Click image below)



3–7 cm accuracy and <20 seconds to fix

PPP-RTK corrections offering uniform performance continent-wide

Corrections data available in both OSR and SSR formats

Optional integrity with error bounding and flagging available

Nation-wide coverage across the US, Canada, UK, EU, China, Japan and Korea

Ideal for automotive, fleet management and outdoor robots

TP5387-SWNAVSDK



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What's included:

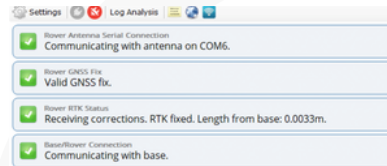
The Calian TruPrecision SDK is a Windows application which provides an autonomous connection to stream Skylark corrections to the TP5387 Smart Antenna via serial to a USB Bridge cable (CMOS version). It also provides a Virtual COM Port to allow customers to connect their existing applications to the TP5387 Smart Antenna position data output. Position data is output as NMEA Formatted messages. ROS2® Drivers are available for integration with ROS2 open framework projects.



TP5387
Smart GNSS Antenna



Serial to
USB Bridge



TruPrecision
Software



TruPrecision Software
Configuration

TP5387-SWNAV SDK includes:

- Calian TP5387 Smart GNSS Antenna (on board Quectel LG69TAP receiver module)
- Calian 1x 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-TP5387SDK-2:** (RS-232)(33-5387-27-10-05-PC0 + 33-0095-16 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.