TP5790-PTONESDK

CALIAN.
Confidence. Engineered.

TP5790SDK-PTONE High-Precision Smart GNSS Antenna with RTK and IMU SDK

◉ [TW5790 Smart GNSSS Antenna](...) | High-Precision | IMU | u-blox ZED-F9R | Complimentary Corrections from Point One Navigation

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:

- MQTT client for PointPerfect PPP-RTK Corrections over L-Band or terrestrial network (sub 6cm accuracy).
- NTRIP client for Swift Navigation Skylark Cx PPP-RTK Corrections (cm-level accuracy).
- Compatible with Polaris Virtual RTK and True RTK options from Point One Navigation.
- 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, corrections and network connections.
- ROS2® drivers also available (click logo on page 2)
- **1-year complimentary license to Polaris RTK corrections from Point One Navigation.**

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

sales@pointonenav.com

pointonenav.com

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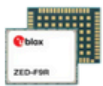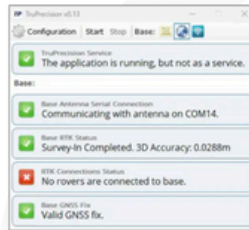
◉ TP5790SDK-PTONE
What's included:

The TruPrecison SDK application is a Windows application to provision your new <u>TW5790 Smart Antenna</u> 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 or UBX formatted messages to allow customers to connect their onboard navigation and mapping applications to receive these messages from the Calian Smart GNSS Antenna in real-time.

TP5790 GNSS Smart Antenna

TruPrecision Logging Software

TruPrecision Software Configuration

TP5790SDK-PTONE includes:
- Calian <u>TW5790 Smart GNSS High-Precision (IMU) Antenna</u>
- Calian 1 x 23-0067-14: 10 cm ground plane (see ordering information)
- Calian TruPrecision Application for correction streaming
- 1-year complimentary license to Polaris RTK corrections from Point One Navigation (see feature list on page one)

Ordering Information:
- **33-TP5790SDK-PTONE-1:** (USB)(33-5790-19-10-OS USB)
- **33-TP5790SDK-PTONE:** (RS-232)(33-5790-29-10-05-PCO + 33-0095-16)

Complimentary Corrections Trials

Receivers

ROS2® Drivers
(Click logo)