

CALIAN
Confidence. Engineered.

TP5790SDK

TW5790 Smart GNSS Antenna | High-Precision | IMU | RTK | u-blox ZED-F9R + NEO-D9S | L-Band

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, short term complimentary augmentation subscription services and USB bridge devices, as required, for plug and play operation.

Features:

- MQTT or NTRIP client for PointPerfect-Flex PPP-RTK Corrections over terrestrial network (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 state heat-map.
- Status console to pinpoint issues between antenna, corrections and network connections.
- Limited trials for subscription services.
- ROS2® drivers also available

Complimentary access to:

- u-Blox PointPerfect-Flex PPP-RTK Service (60 days)
- Swift Navigation Skylark Cx Precision Positioning Service (6 months)
- Point One Navigation Polaris RTK Service (2 weeks)
- Premium Positioning RTK (30 days)
- ONOCOY RTK service (100 credits)



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TP5790SDK

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

The Calian TruPrecision SDK is a Windows application which provides an autonomous connection to stream corrections and decryption keys to the TW5790 Smart GNSS 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 "corrected" position data output. The position data may be either NMEA or UBX formatted messages.



TW5790 Smart GNSS Antenna | Serial to USB Bridge | TruPrecision Software | Corrections Service connections

TP5790SDK includes:

- 1 x Calian TW5790 High-Precision Smart GNSS Antenna with PPP-RTK, IMU | u-blox ZED-F9R + NEO-D9S
- 1 x 23-0067-14: 10 cm aluminum ground-plane
- Calian USB Serial Bridge (for TP5790SDK-2 only - see ordering information)
- Calian TruPrecision Application for correction streaming
- Complimentary corrections services trials (see feature list on page one of this brochure)

Ordering Information:

- **33-TP5790SDK-1:** 33-5790-19-10-0S-PC0 (USB)
- **33-TP5790SDK-2:** 33-5790-29-10-05-PC0 (RS-232 RJ45) + 33-0095-16 USB to serial bridge

PointPerfect Flex GNSS correction service | SKYLARK® Precise Positioning Service | point one | Premium Positioning | onocoy

Complimentary Corrections Partners

u-blox Design Partner

Receivers

ROS 2™

ROS2® Drivers

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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.

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