HCS885XF-SWNAVSDK

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HCS885XF-SWNAV L1/L5 Smart GNSS Helical Antenna
SDK

HCS885XF-SWNAV Smart GNSSS Helical Antenna | L1/L5 | Moving Base Precise Heading* | u-blox NEO F9P | 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.
- NMEA monitoring, satellite visibility and signal strength, GNSS status monitoring and logging tools, with visual state heat-map and message routing for sharing RTCM between base/rover pairs across the internet.
- Status console to pinpoint issues between antenna, connections and network corrections.
- Limited trials for subscription services.
- ROS2® drivers also available (click logo on page 3)
- **Complimentary Trial: Swift Navigation Skylark Cx Precision Positioning Service (6 months)**

*** 2 SDK's are required for Moving Base Precise Heading functionality**

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swift NAVIGATION

SKYLARK®
Precise Positioning Service
6 months
INCLUDED

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)

SKYLARK®
Cx

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

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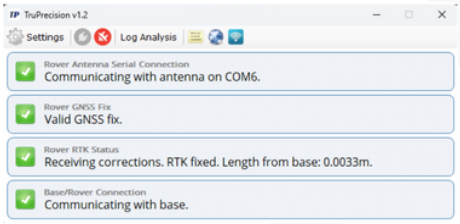
What's included:

The Calian TruPrecision SDK is a Windows application which provides an autonomous connection to stream Skylark corrections to the HCS885XF 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 HCS885XF Smart Antenna position data output. Position data is output as NMEA Formatted messages. ROS2® Drivers are available for integration with ROS2 open framework projects.

HCS885XF Smart GNSS Antenna



TruPrecision Software

TruPrecision Software Configuration

SKYLARK® Precise Positioning Service
6 months INCLUDED

HCS885XFSDK includes:

- Calian HCS885XF Smart GNSS Precise Heading helical antenna with CMOS interface
- Calian JST to USB cable (see ordering information)
- Calian TruPrecision Application for correction streaming
- Complimentary corrections services trials (see feature list on page one)

Ordering Information:

- **33-HCS885XFSDK-SWNAV-4**: 33-HCS885XF-49 (CMOS to USB cable)

swift NAVIGATION

SKYLARK® Precise Positioning Service

SKYLARK® Precise Positioning Service 6 months INCLUDED

Complimentary Corrections Trials

ublox Design Partner

Receivers

ROS 2™

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.

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