DroneCAN H-RTK F9P Helical NXP
S32K1

Basic Information

- Brand Name: GS
- Minimum Order Quantity: 1
- Price: negotiable
- Delivery Time: 6~8
- Payment Terms: T/T
- Supply Ability: 100

Product Specification

- Current Consumption: ~250mA
- Intended Application: Rover (aircraft) Or Base Station
- GNSS Receiver: U-blox ZED-F9P High Precision GNSS Module
- Antenna: Helical Antenna With 36dB LNA
- Processor: STM32G473
- Magnetometer: BMM150 Or IST8310
- Positioning Accuracy: 3D FIX: 1.5 M / RTK: 0.01 M
- Communication Protocol: DroneCAN 1Mbit/s
- Antennas Peak Gain (MAX):   L1: 2dBi L2: 2dBi
- Time-TO-First Fix: Cold Start: ≤25s Hot Start: ≤1s
- Navigation Update Rate: RAW: 20Hz Max RTK: 8Hz Max Moving Base RTK: 5Hz Max
- Cable Length: N/A
- Antenna Connection Type: Board: SMA Female Antenna: SMA Male

More Images

Product Description

DroneCAN H-RTK F9P Helical NXP S32K1

The DroneCAN H-RTK F9P Helical NXP 32K1 is a high-precision GNSS (Global Navigation Satellite System) module featuring the u-blox ZED-F9P receiver, a helical antenna, and integrated with an NXP 32K1 microcontroller for robust data processing and communication. This module is designed for applications requiring centimeter-level positioning accuracy, such as UAVs, robotics, and surveying.

High Precision: Utilizes the u-blox ZED-F9P receiver, which supports multi-band GNSS signals and provides centimeter-level positioning accuracy with RTK (Real-Time Kinematic).

RTK Capabilities: Supports RTK positioning, significantly enhancing accuracy by correcting satellite signal errors in real-time.

Multi-Band GNSS: Capable of receiving signals from multiple GNSS constellations (GPS, GLONASS, Galileo, BeiDou), enhancing reliability and reducing the time to first fix.

Helical Antenna: Equipped with a high-performance helical antenna, offering better multi-path rejection and consistent performance in various orientations and environments.

DroneCAN Interface: Uses the DroneCAN protocol (an extension of CAN), providing robust communication, efficient data transfer, and easy integration with other DroneCAN-compatible devices.

NXP 32K1 Microcontroller: Integrated with the NXP 32K1 MCU for advanced data processing and reliable communication.

Robust Design: Designed to withstand harsh conditions, suitable for professional and industrial applications.

Compact and Lightweight: Compact form factor and lightweight design, ideal for integration into various UAV platforms.
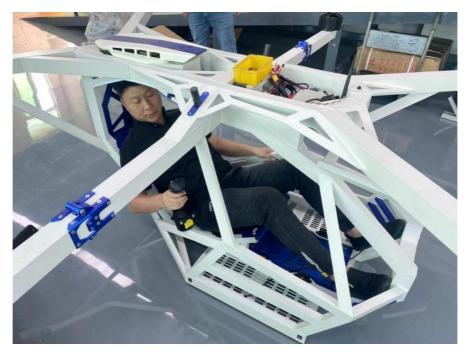
This S32K1 Based DroneCAN-F9P uses a u-blox F9P module, a BMM150 compass, and a tri-colored LED indicator, and is equipped with the NXP S32K14 processor with 1MB Flash and 128 KB RAM. It is compatible with the open source Pixhawk series flight controller with both PX4 and Ardupilot. This S32K1 version uses PX4 CAN Node Firmware, and supports PX4 Dronecan Firmware Updating.

Company image

Our Services

1. We provide 1 Year Warranty. Buy with confidence.
2. If you are not satisfied when you receive your item, please return it within 14 days for a replacement or money back. Please contact me before you return it.
3. If item is defective in 3 months, We will send you a replacement without extra charger, or offer refund after we receive the defective item.
4. If item is defective after 3 months, you can still send it back to us. We will send you a new one after receiving the defective item. But you have to pay the extra shipping fee.

FAQ

Q1: Do you support OEM/ODM?

A1: Yes. We can print your logo on the product.

Q2: About samples.
A2: Under normal circumstances, samples will be ready within 7 days, and 10-20 days for OEM/ODM orders. Sample fee and shipping will be charged.

Q3: What is the delivery time?
A3: For regular orders, we can ship within 15 days, for OEM/ODM, we can ship within 25-45 days (depending on the quantity). In the event of delays, we will notify you in advance of the status and resolution.

Q4: What is the minimum order quantity?
A4: There is no MOQ for wholesale (1 piece accepted), including OEM/ODM.

Q5: What are your payment terms?
A5: L/C.TT100%.

Q6: Can you reduce the shipping cost?
A6: When calculating the shipping cost for you, we always choose the cheapest and safest express. Although we have partnerships with shipping companies, we can't keep costs down because it's not us who get paid. If you think it's expensive for you. You can always make your own choice.

Q7: Return policy.
A7: If you want to replace the received item, you must contact us within 7 days after receiving the item. Returned items should be in their original condition and you should pay for additional shipping.