



H-RTK Mosaic-H Dual Antenna Heading Quadcopter Flight Controller Light Weight

Our Product Introduction

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Basic Information

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



Product Specification

- Product: Holybro H-RTK Mosaic-H
- GPS: L1, L2
- Galileo: E1, E5b
- GLONASS: L1, L2
- Beidou: B1, B2, B3
- QZSS: L1C/A, L1C/B, L2
- SBAS: Egnos, WAAS, GAGAN, MSAS, SDCM (L1)
- Baud Rate (Adjustable): 230400 5Hz Default
- Working Voltage: 4.75V~5.25V
- Operating Temperature: -40°C To 85°C
- Weight: 54.5g (without Antennas)
- Highlight: Dual Antenna Heading quadcopter flight controller
, quadcopter flight controller light Weight,
light Weight rc flight controller



More Images



Product Description

H-RTK mosaic-H(Dual Antenna Heading)

The Holybro mosaic-H is a cutting-edge RTK GPS module that harnesses the power of Septentrio's elite mosaic-H GNSS receiver. It comes with an IST8310 magnetometer, two high-performance antennas, and an aluminum CNC enclosure. It is packed with versatile features such as effortless configuration, spectrum analysis, data logging, and post-processing for a wide range of applications.

With its dual-antenna input, mosaic-H can provide compass-less YAW information to the autopilot (commonly called GPS Heading or Moving Baseline Yaw). By employing GPS as the yaw source instead of a traditional compass, it eliminates the inaccuracies caused by magnetic interference from vehicle motors, electrical systems, and environmental sources like metallic structures or power lines, ensuring precise yaw reports to the autopilot and enhancing overall navigation reliability and performance in challenging environments.



Dual Antenna GNSS:

Utilizes dual antennas to provide accurate heading information.

Enhances the accuracy of orientation measurements, crucial for applications like autonomous vehicles and UAVs.

High-Precision GNSS Receiver:

Built on the mosaic-H GNSS module from Septentrio.

Supports multiple satellite constellations: GPS, GLONASS, Galileo, BeiDou, and QZSS.

Delivers centimeter-level positioning accuracy with RTK (Real-Time Kinematic) corrections.

RTK Positioning:

Supports RTK corrections for enhanced positioning accuracy.

Capable of both rover and base station functionalities in an RTK setup.

Reduces multipath and ionospheric errors through dual-frequency support.

Product	Holybro H-RTK Mosaic-H		
Application	<ul style="list-style-type: none"> Rover Moving Baseline Rover Base Station PPK 		
GNSS	<ul style="list-style-type: none"> GPS: L1, L2 Galileo: E1, E5b GLONASS: L1, L2 Beidou: B1, B2, B3 QZSS: L1C/A, L1C/B, L2 SBAS: Egnos, WAAS, GAGAN, MSAS, SDCM (L1) 		
RTK performance	<ul style="list-style-type: none"> Horizontal accuracy 0.6 cm + 0.5 ppm Vertical accuracy 1 cm + 1 ppm 		
Positioning accuracy	Mode	Horizontal	Vertical
	Standalone	1.2m	1.9m
	SBAS	0.6m	0.8m
	DGNSS	0.4m	0.7m
	RTK	0.6cm+0.5ppm	1.0cm+1ppm
GNSS attitude accuracy	Antenna separation	Heading	Pitch/Roll
	1m	0.15°	0.25°
	5m	0.03°	0.05°
Time-To-First Fix	<ul style="list-style-type: none"> Cold start: ≤ 45s Hot start: ≤ 20s Re-acquisition: 1 s 		
Latency	<ul style="list-style-type: none"> < 10 ms 		
Magnetometer (Compass)	IST8310		
Antennas Peak Gain (MAX)	<ul style="list-style-type: none"> 2dBi 		
LNA Gain	<ul style="list-style-type: none"> 33±2dB 		
Time precision	<ul style="list-style-type: none"> xPPS out: 5 ns Event accuracy: < 20 ns 		
Data and Update Rate	<ul style="list-style-type: none"> Measurements only 100 Hz Standalone, SBAS, DGPS + attitude 50 Hz RTK + attitude 20 Hz 		
Port	<ul style="list-style-type: none"> Port 1: USB Type-c Port 2: UART1 (GH1.25 10pin) Port 3: UART2 (GH1.25 6pin) 		
Antenna Connection Type	<ul style="list-style-type: none"> Board: SMA female Antenna: SMA male 		
Buttons & Buzzer	<ul style="list-style-type: none"> LOG BUTTON: Mosaic-H log recording button, short press to start/end recording; long press to Mount/Unmount SD card. SAFETY SWITCH: flight control safety switch, press and hold the flight control to unlock/lock. Integrated buzzer inside 		

Baud rate: (Adjustable)	230400 5Hz default
Working voltage:	4.75V~5.25V
Power Consumption	<ul style="list-style-type: none"> 0.6 W typ 1.1 W max
Operating Temperature	-40°C to 85°C
Dimension	<ul style="list-style-type: none"> Board: 42.7*71.8*13.3mm Antenna Diameter: 40mm Antenna height: 76mm
Weight	54.5g (without antennas)
Advanced Technologies inside	<ul style="list-style-type: none"> AIM+ the most advanced anti-jamming, anti-spoofing on-board interference mitigation technology on the market (narrow and wide band, chirp jammers). LOCK+ for robust tracking during high vibrations and APME+ multipath mitigation to disentangle direct signal and those reflected from nearby IONO+ provides advanced protection against ionospheric OSNMA Supported
Firmware Compatibility	<ul style="list-style-type: none"> Ardupilot* PX4*
*See this link for the latest information	

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.



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