M10 GPS

SKU:12040

$43.99

Shipping calculated at checkout.

CONNECTOR TYPE

Standard | Secondary GPS | For Pix32 & Pixhawk 1/2.4.6/2.4.8

QUANTITY

− 1 +

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Overview

The M10 GPS uses multi-constellation GNSS powered by u-blox M10 series, a concurrent GNSS receiver which can receive and track multiple GNSS systems. Owing to the multi-band RF front-end architecture all four major GNSS constellations, GPS,Galileo, GLONASS and BeiDou can be received concurrently.

It also comes with the IST8310 compass, tricolored LED indicator, buzzer, and a safety switch. There are 3 different connectors options for different purposes. This module ships with a baud rate of 115200 5Hz.

The high-gain 25 x 25 mm patch antenna provides excellent performance and the omnidirectional antenna radiation pattern increases flexibility for device installation. It features active circuitry for the ceramic patch antenna, rechargeable backup battery for warm starts.

High-Speed Drone GPS Comparison

This **blog post** put Holybro M10, M9N, F9P and Matek M10Q was put to an ultimate test to determine which GPS units could keep pace with a high-speed drone in acro mode while ensuring precision during RTL and autonomous missions.

Features

- Newest Ublox 10th Gen GNSS
- Fast & Accurate Positioning
- High-gain 25*25*4mm antenna
- IST8310 Compass
- Internal Buzzer, Safety switch
- Ultra Bright UI RGB LED

Specification

	Holybro M10 GPS	Holybro M9N GPS
GNSS Receiver	Ublox M10	Ublox M9N
Number of Concurrent GNSS	Up to 4 GNSS BeiDou Galileo GLONASS GPS QZSS	Up to 4 GNSS BeiDou Galileo GLONASS GPS QZSS
Frequency Band	GPS L1	GPS L1

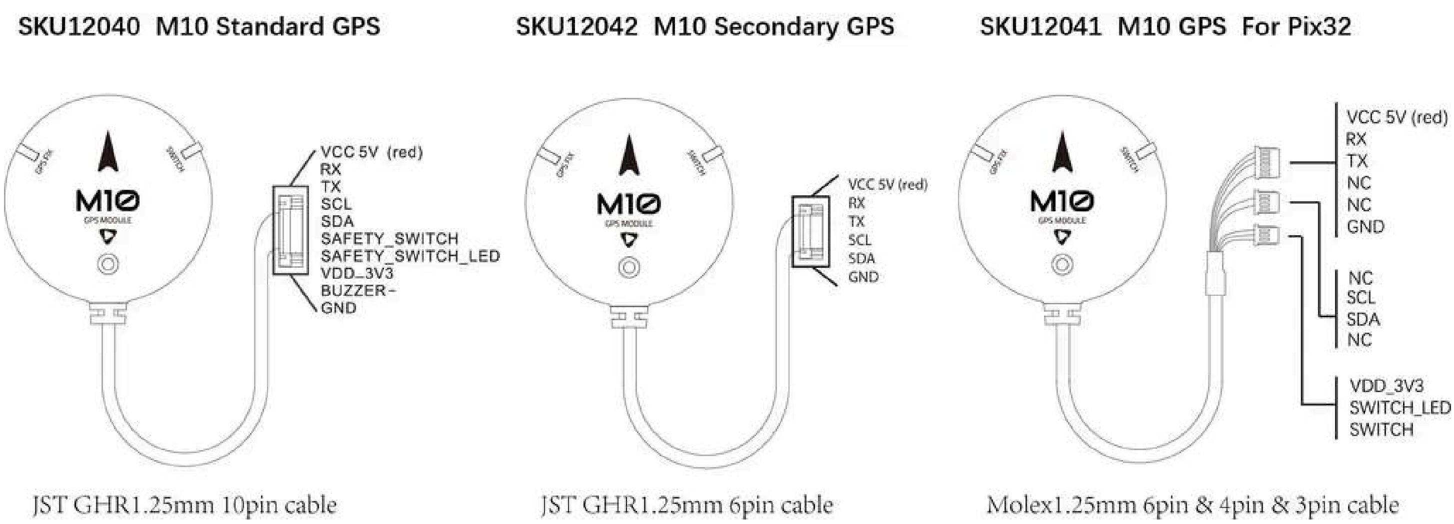
	Galileo E1	Galileo E1
	GLONASS L1	GLONASS L1
	BeiDou B1	BeiDou B1
	SBAS L1	SBAS L1
	QZSS L1	QZSS L1
Compass	IST8310	IST8310
Output Protocol	UBX (U-blox) NMEA	UBX (U-blox) NMEA
Accuracy	2.0m CEP	1.5m CEP
Nav. Update Rate	Up to 25 Hz (single GNSS), Up to 10 Hz (4 concurrent GNSS)	Up to 25 Hz (4 concerrent GNSS)
GNSS Augmentation System	EGNOS, GAGAN, MSAS and WAAS QZSS: L1S	EGNOS, GAGAN, MSAS and WAAS QZSS: L1S
Default Baud Rate	115200	115200
Input Voltage	4.7-5.2V	4.7-5.2V
Port Type	JST-GH-10P	JST-GH-10P
Antenna	25 x 25 x 4 mm ceramic patch antenna	25 x 25 x 4 mm ceramic patch antenna
Power consumption	Less than 200mA @ 5V	Less than 200mA @ 5V
Operating Temperature	-40~80℃	-40~80℃
Dimension	φ50 x14.4 mm	φ50 x14.4 mm
Weight	32g	32g
Cable Length	26cm (42cm cable purchase separately)	26cm (42cm cable purchase separately)
Other	Tri-color LED	Tri-color LED

	Onboard Buzzer	Onboard Buzzer
	Safety Switch	Safety Switch
	LNA MAX2659ELT+ RF Amplifier	LNA MAX2659ELT+ RF Amplifier
	Rechargeable Farah capacitance	Rechargeable Farah capacitance
	Low noise 3.3V regulator	Low noise 3.3V regulator

Note

- PX4 1.14, ArduPilot 4.3, INAV 5.0.0, Betaflight 4.3.0 or newer is required.
- The Status LED driver has changed. This LED is support in PX4 1.14, ArduPilot 4.4.0 & later. (More info)

PIN MAP



Note: For Ardupilot User, if you are unable to perform normal compass calibration "compass dance" for any reason, set parameter COMPASS_ORIENT=6 (Yaw270) for proper compass orientation.

Difference between the three cable options

SKU12040 - Holybro M10 GPS (JST GHR1.25mm 10pin cable):

- This option is the most common, it is used on the This connector can be used on Pixhawk Standard Flight Controller 10pin “GPS Module”or "GPS1" input port.

SKU12042 - Holybro M10 Secondary GPS (JST GHR1.25mm 6pin cable):

- This connector can be used on Pixhawk Standard Flight Controller 6pin“UART & I2C”or "GPS2" input port as secondary GPS. This GPS is also compatible with the *Cube* Flight Controller GPS2 Port.

SKU12041 - Holybro M10 GPS for Pix32 & Pixhawk1/2.4.6/2.4.8 (Molex1.25mm 6pin & 4pin &3pin cable):

- These connectors are for "Switch", "GPS", and "I2C" input ports on the Pix32/Pixhawk1/Pixhawk 2.4.6/2.4.8

Reference Link:

- Holybro Documentation
- Ardupilot IST8310 Compass Orientation
- Dimension
- 3D CAD File Downloads

Package Includes:

- 1x M10 GPS Module
- 1x Fixed Carbon Fiber GPS mount

Spare Part & Accessories

- GPS Extended Length Cable

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