



Overview

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Descriptions

The Holybro DroneCAN GPS has an UBLOX M8N or M9N module, BMM150 compass, tri-colored LED indicator. It has adopted the DroneCAN protocol for communication. It is better in dealing with electromagnetic interference compare to serial connection, making it more reliable. It does not occupy any serial port of the flight controller, and different CAN devices can be connected to the same CAN bus via a CAN splitter board.

Features and Specifications:

	DroneCAN M8N & M9N
GNSS Receiver	Ublox NEO M8N
Number of Concurrent GNSS	M8N - Up to 3 GNSS M9N - Up to 4 GNSS
Processor	STM32G4 (170MHz, 512K FLASH)
Compass	BMM150 or IST8310
Frequency Band	GPS: L1C/A GLONASS: L10F Beidou: B1I Galileo: E1B/C
GNSS Augmentation System	SBAS: WAAS, EGNOS, MSAS, QZSS
Navigation Update	5Hz Default(10Hz MAX)
Navigation sensitivity	-167 dBm
Cold starts	~ 26s
Accuracy	2.5m
Speed Accuracy	0.05 m/s
Max # of Satellites	22+
Default CAN BUS data rate	1MHz
Communication Protocol	DroneCAN @ 1 Mbit/s

	DroneCAN M8N & M9N
Firmware Support	PX4, Ardupilot
Port Type	GHR-04V-S
Antenna	25 x 25 x 4 mm ceramic patch antenna
Voltage	4.7-5.2V
Power consumption	Less than 200mA @ 5V
Temperature	-40~80C
Size	Diameter: 54mm Thickness: 14.5mm
Weight	36g
Cable Length	26cm
Other	<ul style="list-style-type: none">• LNA MAX2659ELT+ RF Amplifier• Rechargeable Farah capacitance• Low noise 3.3V regulator• 26cm cable included
