

holybro-overview.md

> For the complete documentation index, see llms.txt (<https://docs.holybro.com/llms.txt>). Markdown versions of documentation pages are available by appending `.md` to page URLs; this page is available as Markdown (<https://docs.holybro.com/gps-and-rtk-system/m8n-m9n-m10-gps/micro-m10-m9n-gps/overview.md>).

Overview

<figure><figcaption></figcaption></figure>

Overview

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These Micro GPS uses multi-constellation GNSS powered by u-blox M10 or M9N, a concurrent GNSS receiver which
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The high-gain 25 x 25 mm2 patch antenna provides excellent performance and the omnidirectional antenna radia

{% hint style="warning" %}
**Firmware Support for M10 GPS:** PX4 1.14, ArduPilot 4.3, INAV 5.0.0, Betaflight 4.3.0 or newer is required
{% endhint %}
```

Specification

	GNSS Receiver	Ublox M10 Ublox M9N
	Number of Concurrent GNSS	Up to 4 GNSS BeiDou Galileo GLONASS GPS QZSS
	Frequency Band	Up to 4 GNSS BeiDou Galileo GLONASS GPS QZSS
	Output Protocol	GPS L1 Galileo E1 GLONASS L1 BeiDou B1 SBAS L1 QZSS L1
	Compass	IST8310
	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 concurrent GNSS)
	GNSS Augmentation System	EGNOS, GAGAN, MSAS and WAAS QZSS: L1S
	Default Baud Rate	115200
	Input Voltage	4.7-5.2V
	Port Type	JST-GH-6P
	Antenna	25 x 25 x 4 mm ceramic patch antenna
	Power consumption	Less than 200mA @ 5V
	Operating Temperature	-40~80C
	Dimension	32 x 26 x 9mm (w/o Case) 34 x 28 x 11mm (With Case)
	Weight	14g (w/o Case) 16g (With Case)
	Other	LNA MAX2659ELT+ RF Amplifier Rechargeable Farah capacitance Low noise 3.3V regulator

* **M8N:** Concurrent reception of up to 3 GNSS (GPS, Galileo, GLONASS, BeiDou)

```
# Agent Instructions
This documentation is published with GitBook. GitBook is the documentation platform designed so that both hu

## Querying This Documentation
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Perform an HTTP GET request on the current page URL with the `ask` query parameter, and the optional `goal` query parameter:

```
GET https://docs.holybro.com/gps-and-rtk-system/m8n-m9n-m10-gps/micro-m10-m9n-gps/overview.md?ask=&lt;questi
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`ask` is the immediate question: it should be specific, self-contained, and written in natural language.
`goal` is optional and describes the broader end goal you are ultimately trying to accomplish on behalf of t
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The response will contain a direct answer to the question and relevant excerpts and sources from the documentation.

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