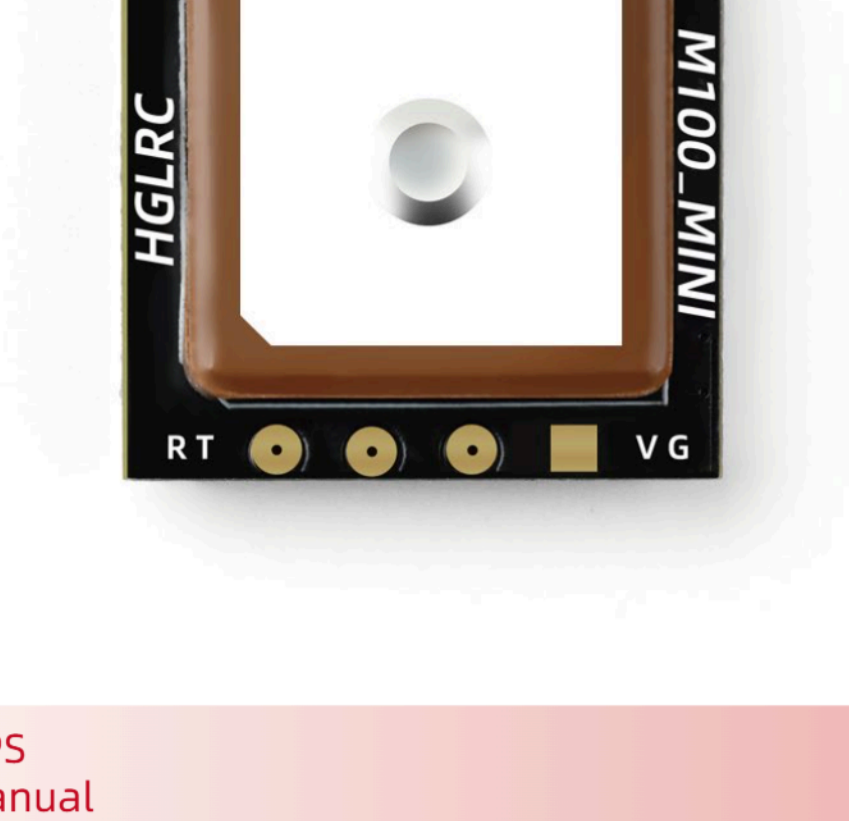




HGLRC M100_MINI GPS

Manual V1.0



M100_MINI GPS instruction manual

Parameters

Chip:M10 (10th generation chip)

Frequency:GPS L1 , GLONASS L1 , BDS B1

GALILEO E1 , SBAS L1 , QZSS L1

Power Supply:5V

Size:15 x 15 x 5.2 mm

Antenna: ceramic antenna

Receiving channels:72ch

Weight:2.7g

Support Rate:115200bps

Output protocol: UBLOX

Output frequency: 10Hz

Speed Precision:0.05m/s

Level Positioning Precision:2D ACC 2.0m(Outside)

Receiving sensitivity:Trace-166dBm

Capture-160dBm

Dynamic characteristics: altitude: 50000m, speed: 500m / s,

acceleration 4G

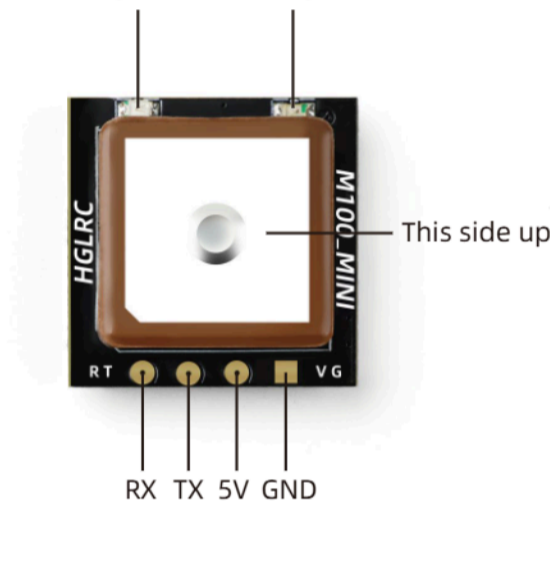
Working Temperature:-40°C+85°C

Storage temperature:-40°C+105°C

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Introduction

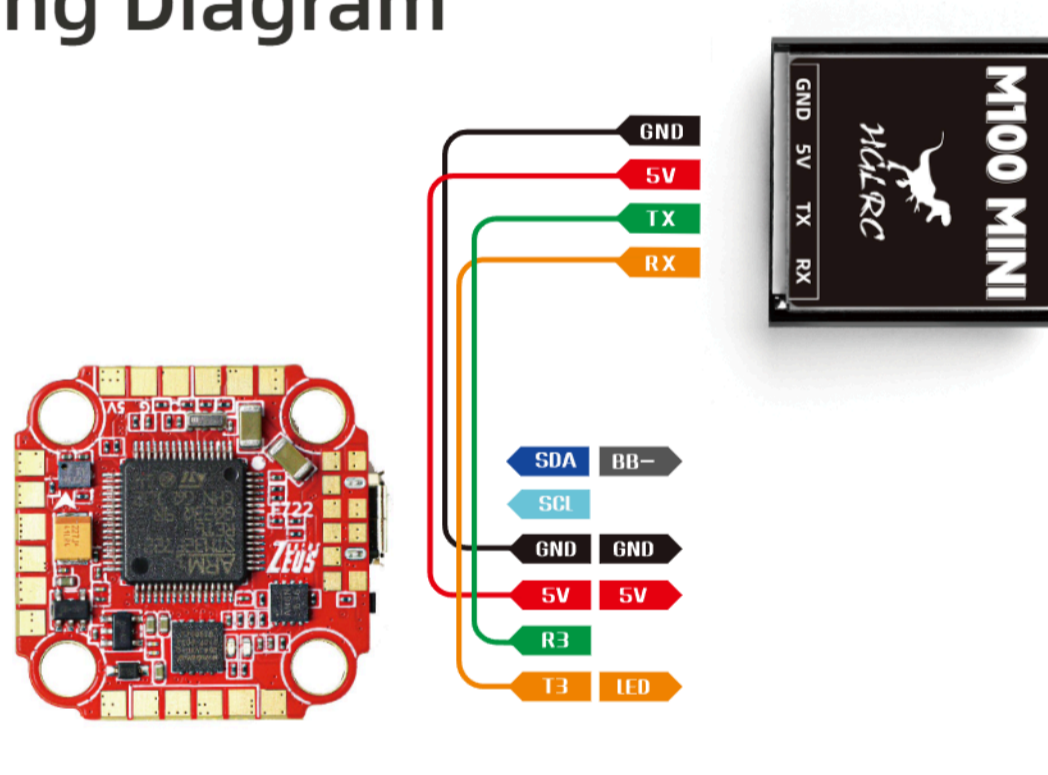


Indicator light	PPS (red light))	Power (blue light)
Normal start	normal bright	normal bright
Real position accuracy	Flickering	normal bright

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Wiring Diagram



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Betaflight set up

1. Connect the GPS to any port of the flight control according to the wiring diagram,as demonstrated by UART3 .

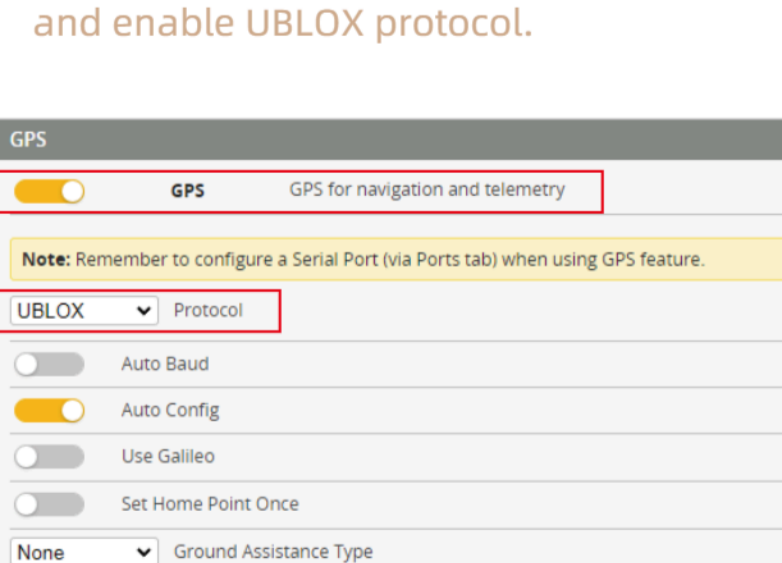
(Note: Be sure to connect the spare serial port or GPS special serial port)

2.Open the port page of Betaflight,set the sensor input type as GPS, baud rate 115200.

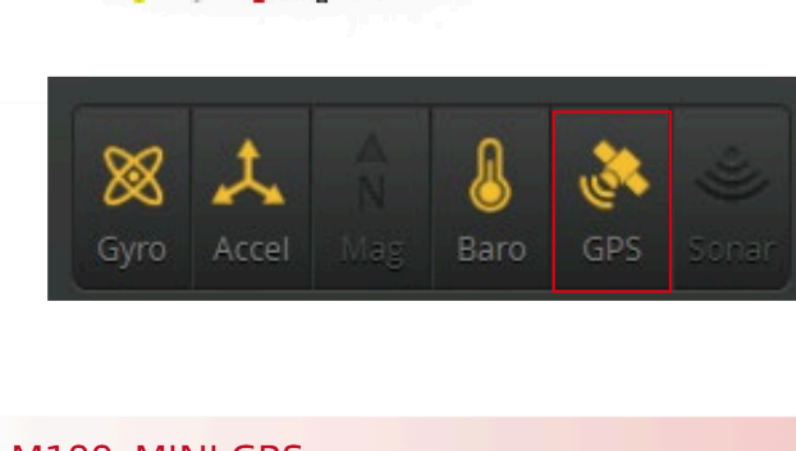
Find the UART3,open GPS in No.3 sensor input and select baud rate 115200

Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	<input checked="" type="checkbox"/> 115200	.....	.....	Disabled | AUTO	.....
UART1	<input type="checkbox"/> 115200	.....	.....	Disabled | AUTO	.....
UART2	<input type="checkbox"/> 115200	.....	.....	Disabled | AUTO	.....
UART3	<input type="checkbox"/> 115200	.....	.....	GPS | 115200	.....
UART4	<input type="checkbox"/> 115200	.....	.....	Disabled | AUTO	.....
UART6	<input type="checkbox"/> 115200	.....	.....	ESC | AUTO	.....

3.Open the configuration page of Betaflight,turn on GPS and enable UBLOX protocol.



4. Power on the quadcopter,the GPS indicator will light up when the GPS is working normally,and the GPS logo on the top of Betaflight will light up.



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Attention:

1. Please supply power to the GPS according to the specified voltage range.

2. Please weld carefully against the wiring diagram to avoid burning the GPS by short connection.

3. Please use BF4.3.0 firmware or above . (too low version does not recognize 10th generation chip)

4. The GPS must be installed with the antenna facing upward and away from the motor,power line and other parts with interference.

Contact us

Sincerely thanks for everyone trust! Welcome to choose HGLRC products

