

GEPRC

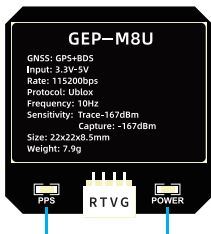
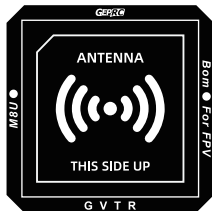
GEP-M8U

Rapid Positioning | Stable Connection
Dual Mode Reception | 3.3V-5V Power Supply



Summary:

GEP-M8U GPS module features as small size, light weight, fast positioning and stable connection. Suitable for FPV, model aircraft and other products.



PPS indicator Power indicator

Specification:

Model: GEP-M8U

Receiving Format: GPS, GLONASS,

BDS (Choose GLONASS or BDS)

Input Voltage: 3.3V-5V

Receiving Channel: 72ch

Compass: None

Baud Rate: 115200bps

Output Connector: SH1,0-4Pin

Communication Protocol: UART

Output Protocol: UBLOX

Output Frequency: 10Hz

Speed Accuracy: 0.05 m / s

Receiving Sensitivity: Trace -162dBm,

Capture-160dBm

Dynamic Characteristics : Max Height:50000m

Max Speed:500m/s

Max Acceleration: 4G

Working Temperature: -40°C~85°C

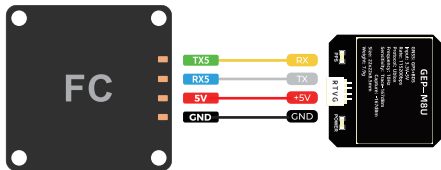
Storage Temperature: -40°C~105°C

Size: 22mm x 22mm x 8mm

Weight: 7.9g



Wiring Diagram:



Turn on GPS Settings:

1. Turn on GPS on UART5 and set the baud rate to 115200bps.

Identifier	Sensor Input	
USB VCP	Disabled ▾	AUTO ▾
UART5	GPS ▾	115200 ▾

2. Open the configuration interface to enable GPS and select the UBLOX protocol.

GPS

GPS

GPS for navigation and telemetry ?

Note: Remember to configure a Serial Port (via Ports tab) when using GPS feature.

UBLOX ▾

Protocol

Auto Baud

Auto Config

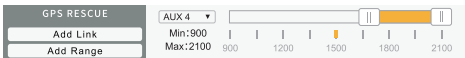
Use Galileo ?

3. After the setting is completed, restart the flight controller. After the flight controller recognizes the GPS, the GPS logo will light up.

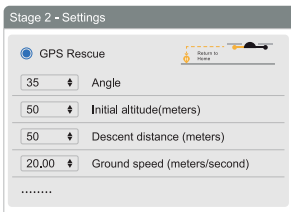


Enable GPS RESCUE Settings:

1. Under the modes option, enable GPS RESCUE and set the trigger switch.



2. In the GPS RESCUE interface, set the options to be enabled.



Test Rescue Mode:

1. Removing the propellers then plug in battery.
2. Triggering the rescue switch and observing whether the Betaflight activates the Rescue mode.

Info	
Arming Disable Flags:	MSP RESC
Battery voltage:	4.22 V
Capacity drawn:	3 mAh
Current draw:	0.00 A
RSSI:	100 %

3. Rescue mode is activated normally, You can fly safely.



Enable Channel Fallback Settings:

1. Preset channel settings, set the GPS rescue switch to the value that triggers the GPS RESCUE.
2. When the drone loses the receiver signal, the flight controller will switch to the Channel Fallback Setting, that is enter into GPS RESCUE mode.

Channel Fallback Settings		
AUX 1	ARM	Hold ▼
AUX 2	ANGLE HORIZON	Hold ▼
AUX 3	BEEPER FLIP OVER AFTER CRASH	Hold ▼
AUX 4	GPS RESCUE	Set ▼ 1900 ⬆



Test Channel Fallback Settings:

1. Removing the propellers then plug in battery.
2. Turn off the remote controller and observing whether the Betaflight activates the Rescue mode.

Info	
Arming Disable Flags:	RX_FAILSAFE MSP RESC
Battery voltage:	4.22 V
Capacity drawn:	3 mAh
Current draw:	0.00 A
RSSI:	100 %

3. Rescue mode is activated normally, You can fly safely.



Include:

1 x GPS module

1 x SH1.0-4Pin cable

1 x GPS user manual

Contact:

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