

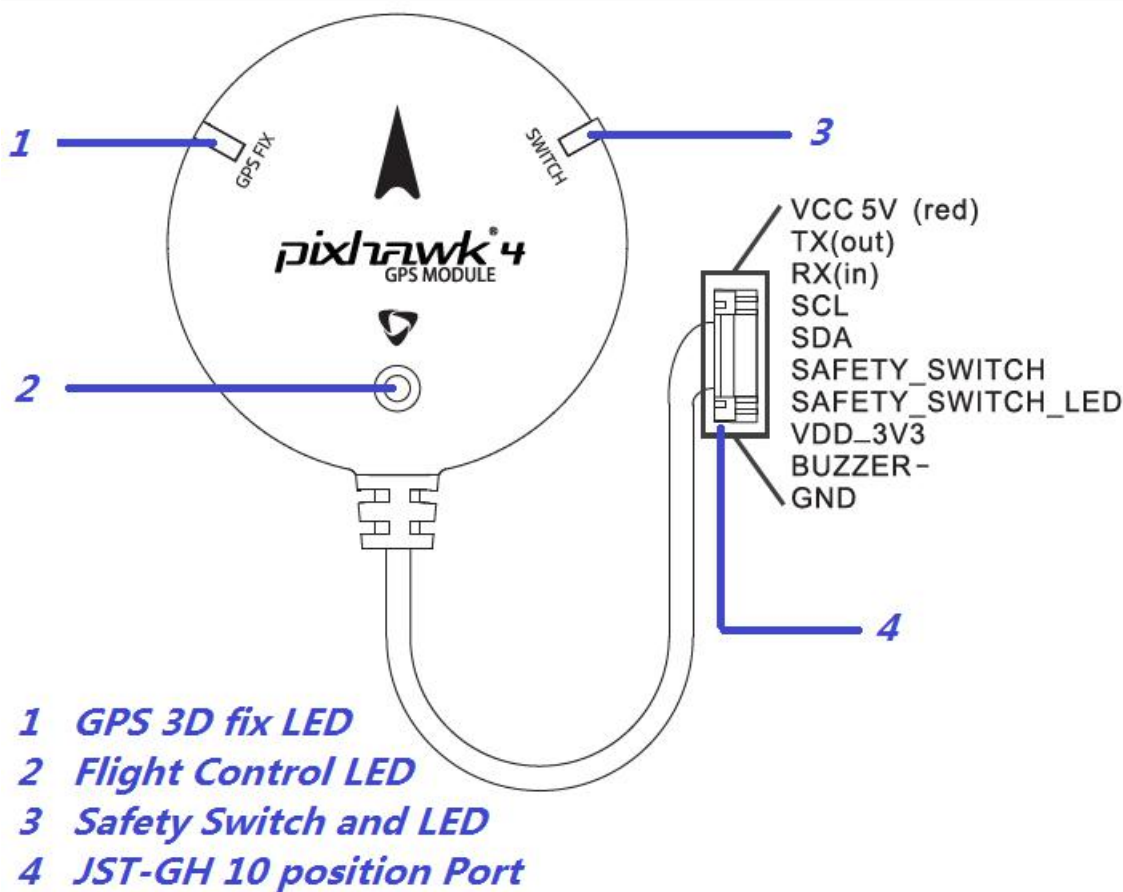
Pixhawk4 GPS

Manual

Overview

A Pixhawk4 GPS modules is designed with ublox NEO-M8 positioning module. It concurrent GNSS receivers and can receive and track multiple GNSS systems (e.g. GPS, GLONASS, Galileo and QZSS signals). Because of the dual-frequency RF front-end architecture, two of the three signals can be received and processed concurrently. By default the GPS receivers are configured for concurrent GPS (includes SBAS and QZSS) and GLONASS reception.

Port Description



GPS 3D fix LED

Flashing 1 time per second when the GPS module get a 3D position. When the GPS module loss signal this LED will be off.

Flight Control LED

A 3-colors LED. It is controlled by flight controller via I2C bus.

Safety Switch and LED

Directly connect to flight controller. Push down the safety switch until the LED on before flying.

JST-GH 10 position port

Connect to GPS module port of flight controller.

GPS + Compass + Buzzer + Safety Switch + LED

Attach the provided GPS with integrated compass, safety switch, buzzer and LED to the GPS MODULEport.

The GPS/Compass should be mounted on the frame as far away from other electronics as possible, with the direction marker towards the front of the vehicle (separating the compass from other electronics will reduce interference).



Note:

The GPS module's integrated safety switch is enabled by default (when enabled, PX4 will not let you arm the vehicle). To disable the safety press and hold the safety switch for 1 second. You can press the safety switch again to enable safety and disarm the vehicle (this can be useful if, for whatever reason, you are unable to disarm the vehicle from your remote control or ground station).

FCC STATEMENT :

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.