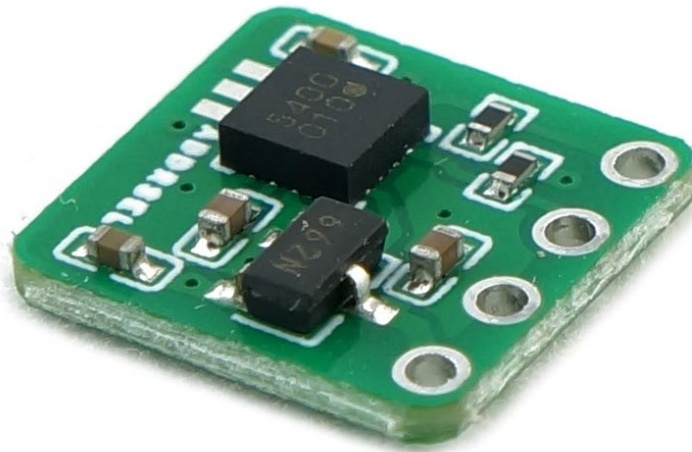# Rotorama IST8310 – External Compass

The Rotorama IST8310 is a miniature external compass primarily suitable for long-range drones running iNav or ArduPilot firmware.

The external compass is based on the IST8310 chip. Communication is handled via the I2C bus using the SCL and SDA pins.
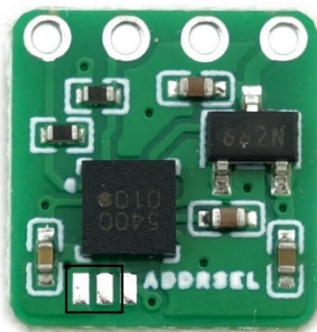
Specifications

- Input voltage: 4.5–5.5 V
- Communication interface: I2C
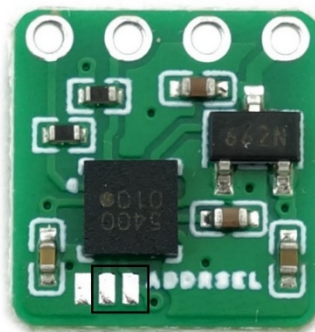- Dimensions: 10.5 × 10.5 mm
- Weight: 0.2 g
- Magnetometer: IST8310

Changing the I2C Address

The module features solder pads that allow changing the I2C address of the IST8310 magnetometer. When the left and center pads are bridged, the I2C address of the magnetometer is set to 14. When the center and right pads are bridged, the I2C address of the magnetometer is set to 15.

Warning: Bridging all three pads at the same time may permanently damage the module.

I2C: 14   I2C: 15

Wiring Diagram