

Crazyflie 2.0 Multi-Ranger Deck

114991485

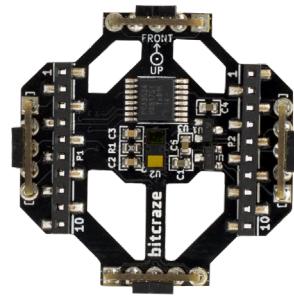
Product Overview

08/26/2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

Seeed Studio Multi-Ranger Deck offers the Crazyflie 2.0 the ability to detect objects around it. This is done by measuring the distance to objects in 5 directions (front/back/left/right/up) with millimeter precision, up to 4 meters. This multi-ranger deck features five VL53L1x ToF sensors and 1-wire memory for automatic expansion deck detection. The multi-ranger deck is available in 35mm x 35mm x 5mm dimensions and 2.3g weight. The crazyflie 2.0 can autonomously move around and avoid obstacles when combined with a flow deck.



Features

- Fast and accurate distance ranging
- Measures absolute range up to 4m in 5 directions
- Eye safe

Specifications

- 5x VL53L1x ToF sensors to measure distances up to 4 meters (depending on surface and light conditions)
- 1-wire memory for automatic expansion deck detection
- Mechanical specification:
 - 2.3g weight
 - 35mm x 35mm x 5mm (WxHxD) dimensions
- PCA9534 I²C GPIO expander to stage VL53 sensor startup

Schematic

- [Multi-ranger schematic Rev.E](#)
- [Multi-ranger daughter board schematic Rev.E](#)

Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/seeed-studio/seeed-crazyflie-multi-ranger-deck/>