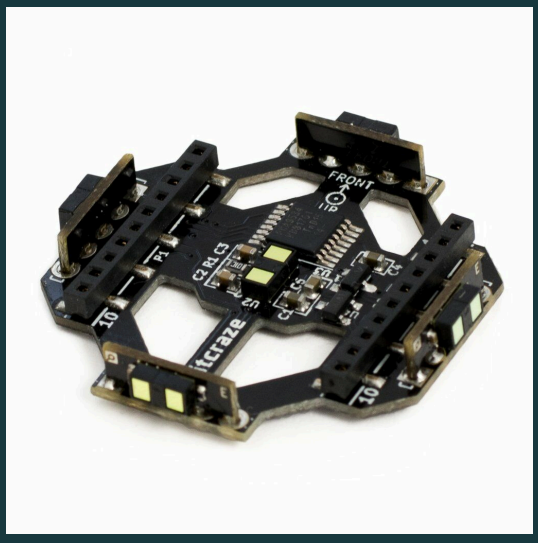
seeed studio

INDUSTRIAL PRODUCT DATASHEET

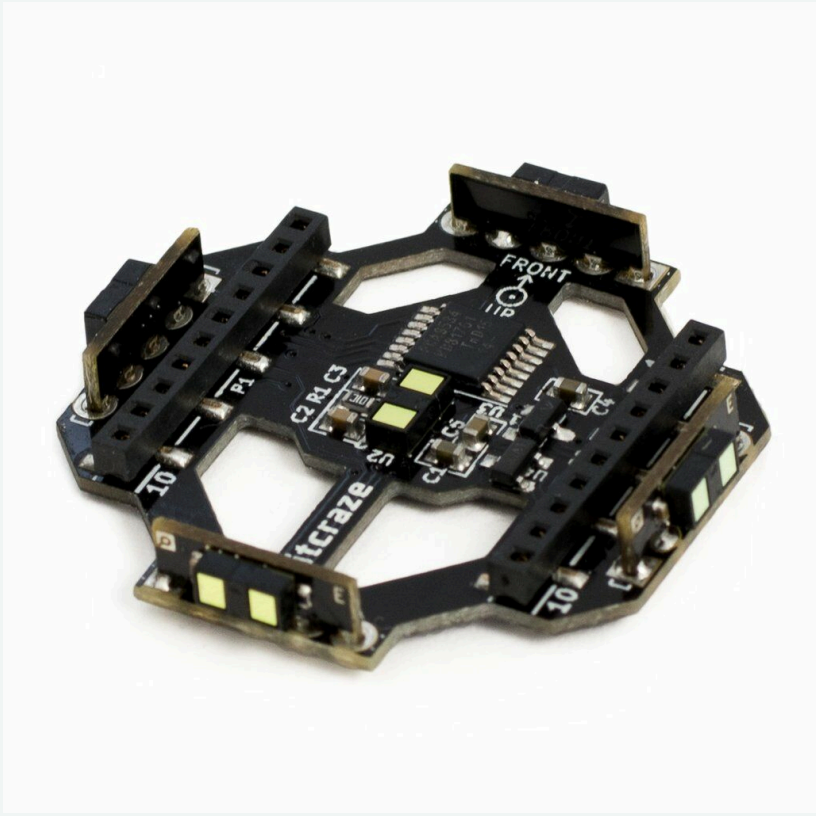
Crazyflie2.x Multi-ranger deck Based on VL53L1x ToF Sensor,Laser Ranging Module for The Drone

[image] The Multi-ranger deck gives the Crazyflie 2.X the ability to detect objects around it.

SKU	UPDATED	PRICE
114991485	2026-11-11 07:00:31	$90.00(Excl. VAT)



Overview



[image] The Multi-ranger deck gives the Crazyflie 2.X the ability to detect objects around it. This is done by measuring the distance to objects in the following 5 directions: front/back/left/right/up with mm precision up to 4 meters.

Key Features

01 **Fast, accurate distance millimetre ranging**

measures absolute range up to 4 meters in 5 directions

02 **ToF technology for distance measurement**

ToFVL53L1x ToF sensor to measure distance up to 4 meters within a few millimetres

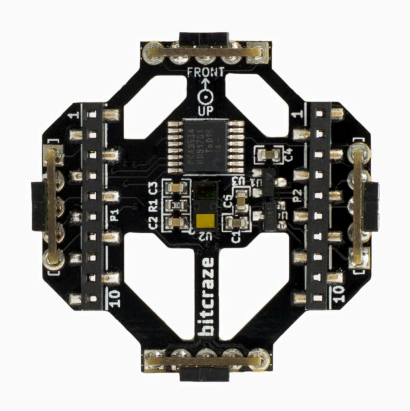
03 **Full range detection**

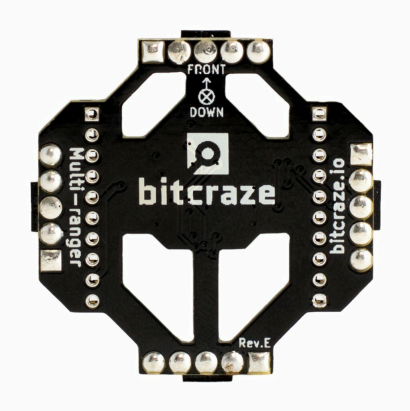
Detects distances to objects in front/back/left/right/up orientations

04 **Eye safe**

Dynamic awareness of surroundings that will immediately avoid obstacles

Product Gallery





Applications

- **The STEM (Science Technology Engineering Mathematics) ranging bundle is based on a Crazyflie 2.X with a Flow deck v2 and a Multi-ranger deck. It is an autonomous drone that can be controlled from a simple python script to explore and operate a robot in 3 dimensions. It has the ability to detect obstacles around it.**
- **What to buy:**
- **1 x Crazyradio PACrazyflie 2.1**
- **1×Crazyflie 2.1**
- **1×Multi ranger deck**
- **1×Flow deck v2**
- **Check out the multi-ranger based python demos in the Crazyflie Python Library example folder.**
- **Here is the video of the point cloud example**

Resource Links

- https://www.seeedstudio.com/Crazyflie-2-0-Multi-ranger-deck-p-2940.html
- Datasheet
- Schematics
- Getting started guide (the STEM ranging bundle)
- crazyflie-firmware
- Expansion decks of the Crazyflie 2.X
- Schematics, daughter board

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