

Crazyflie 2.0 DWM1000 Deck

Product Overview

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Description

Seeed Studio Crazyflie 2.0 DWM1000 Deck is a tag in the loco positioning system and measures the distance to anchors. The distances estimate the absolute position of the Crazyflie 2.X in a room which is used for autonomous flight. The Crazyflie 2.0 features a maximum tested range of 10m and operates at a 3.2GHz to 7GHz radio frequency range. This product comes with 28mm x 35mm x 4mm dimensions and weighs around 3.3g. For Crazyflie 2.0 to perform as intended, it should be used in conjunction with loco positioning nodes, not standalone.



Features

- Measures distances to loco positioning node anchors
- 4 status LEDs
- Power consumption:
 - Max 150mA, depends on operation mode and configuration
 - Crazyflie 2.X flight time with deck 6 minutes

Specifications

- Electrical specifications:
 - Based on the Decawave DWM1000 module
 - Implements IEEE 802.15.4 UWB
 - 1-wire memory for automatic expansion deck detection
- Ranging specifications:
 - Ranging accuracy $\pm 10\text{cm}$ according to DWM1000 spec
 - Maximum tested range of 10m
 - Ranging rate 500Hz, shared over all anchors. Around 80Hz per anchor with 6 anchors
- Radio specifications:
 - Operates at 3.2Ghz to 7GHz
 - Channel bandwidth 500MHz
- Mechanical specifications:
 - 3.3g weight
 - 28mm x 35mm x 4mm (WxHxD) dimensions
 - Designed for mounting above or under the Crazyflie 2.X

Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/seeed-studio/seeed-crazyflie-2-dwm1000-deck/>