Crazyflie 2.0 DWM1000 Deck

SKU 114990655

The Loco positioning Deck is a Tag in the Loco Positioning system and measures the distance to Anchors. The distances are used to estimate the absolute position of the Crazyflie 2.X in the room, which can be used for autonomous flight. To read more about the Loco positioning deck go to our website.

Note: This product is intended to be used together with Loco Positioning Nodes and cannot be used standalone.
For more information on the Loco Positioning System please see this Loco Positioning System page.

Specifications are based on the standard 2-way ranging mode.

Features
- Measures distances to Loco Positioning Node Anchors
- 4 status LEDs

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 ±10 cm according to DWM1000 spec. See the wiki for measurements.
- Maximum tested range 10 m
- Ranging rate 500 Hz, shared over all anchors. Around 80Hz per anchor with 6 anchors

Radio specifications

- Operates at 3.2 - 7 GHz
- Channel bandwidth 500 MHz

Power consumption

- Max 150 mA, depends on operation mode and configuration
- Crazyflie 2.X flight time with deck 6 minutes

Mechanical specifications

- Weight: 3.3 g
- Size (WxHxD): 28x35x4 mm
- Designed for mounting above or under the Crazyflie 2.X
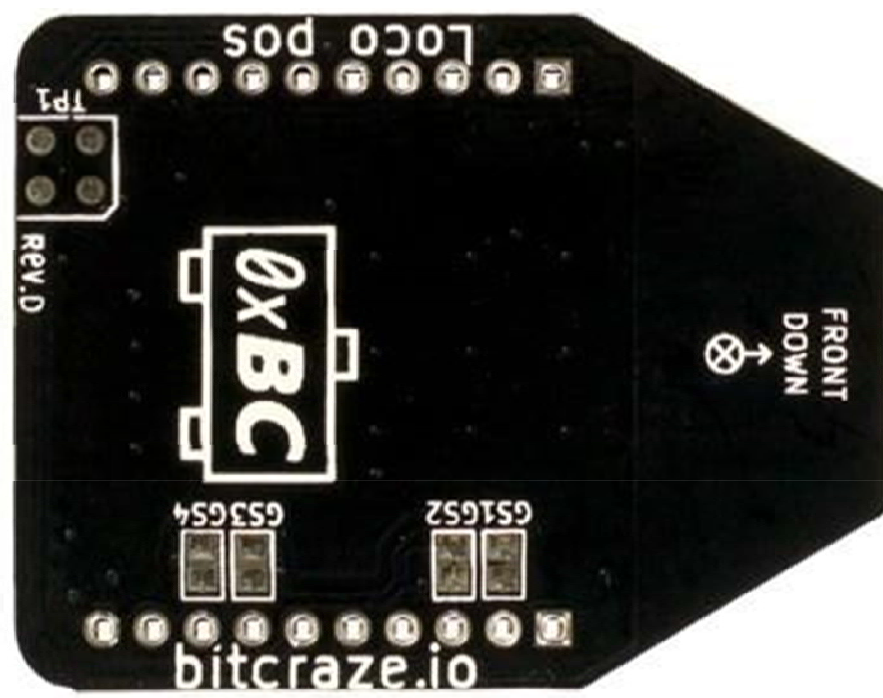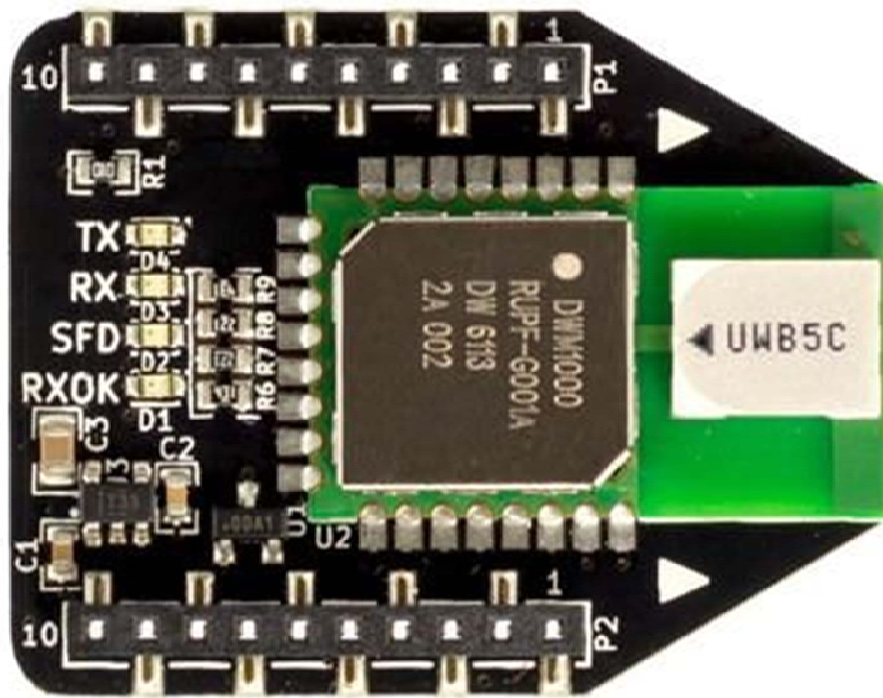
Compatibility

See compatibility matrix
Loco Positioning Nodes

Part List

1 x Loco Positioning deck

ECCN/HTS

ECCN	EAR99
HSCODE	8526919090
USHSCODE	8517700000
UPC	

https://www.seeedstudio.com/Crazyflie-2-0-DWM1000-Deck-p-2938.html/4-24-19

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