

Crazyflie 2.1 Brushless Version - Open Source Mirco Quadcopter Drone,Support BLUETOOTH5 Le,Robotics,Suitable for Indoor/Small Space/High Density

Crazyflie 2.1 Brushless Version is a versatile open-source flying development platform that only weighs 27 g and fits in the palm of your hand. Crazyflie 2.1 brushless version is equipped with a low-latency/long-range radio as well as Bluetooth LE. This gives you the option of downloading our app and using your mobile device as a controller or, in combination with the Crazyradio PA, using

SKU

114993410

UPDATED

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Overview



Figure 1. 114993410 Crazyflie Brushless Version

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Key Features

01

Easy to assemble

no soldering required

02

Automatic Expansion Deck Detection

03

Multiple positioning technologies supported

04

Cross-Platform Compatibility

Compatible with iOS and Android via Bluetooth LE, and with Windows, Mac, and Linux using Crazyradio, Crazyradio PA, or Crazyradio 2.0 for flying.

05

Long-Range Radio Communication

Tested to further than 1 km radio range line-of-sight (LOS) with the Crazyradio PA

06

Wireless firmware updates

07

Dual-MCU architecture

Supports Real-time logging, graphing and variable setting in addition to full use of expansion decks when using a Crazyradio or Crazyradio PA and a computer

Product Gallery



Figure 1. 114993410 Crazyflie Brushless Version



Figure 2. 114993410 Crazyflie Brushless Version



Figure 3. 114993410 Crazyflie Brushless Version



Figure 4. 114993410 Crazyflie Brushless Version



Figure 5. 114993410 Crazyflie Brushless Version



Figure 6. 114993410 Crazyflie Brushless Version



Figure 7. 114993410 Crazyflie Brushless Version

Specification

Parameter: Description

Parameter	Description
Microcontrollers Spec	
Main application MCU	STM32F405, Cortex-M4, 168MHz, 192kb SRAM, 1Mb flash
Radio and power management MCU	nRF51822, Cortex-M0, 32Mhz, 16kb SRAM, 128kb flash
Connector	micro-USB
On-board LiPo charger	100mA, 500mA and 980mA modes available
Memory	8KB EEPROM
Port	Full speed USB device
Partial USB OTG capability present but no 5V output	
IMU Spec	
3 axis accelerometer / gyroscope	BM1088
High precision pressure sensor	BMP388

Hardware Overview

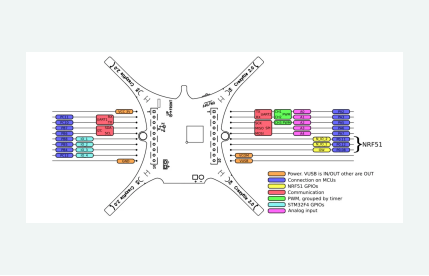


Figure 1. Image3 11

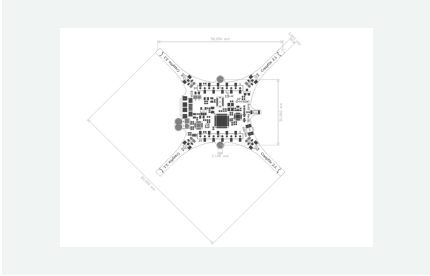


Figure 2. Image4 9

Applications

Use the Crazyflie 2.X for development

The Crazyradio PA enables you to connect the Crazyflie 2.X to a computer wireless and download new firmware, modified to your liking. The logging and parameter frameworks provide APIs for getting and setting data in the Crazyflie 2.X live, even when you are flying! All software, firmware, as well as clients on the computer that is open source and the source code is available for you to play with as you like.

Paint in the dark with a Crazyflie

The Crazyflie 2.X is fun to fly as is but adding the LED-ring deck and flying in the dark adds a new dimension. The RGB LEDs let you choose any colour and with some coding any light sequence can be displayed, for instance, controlled by the on board sensors. Why not take photos with an open shutter of a moving Crazyflie 2.X and paint in the dark?

assistance when flying the Crazyflie and Crazyradio PA

Flying a quadcopter like the Crazyflie manually requires some skill and practising. By adding the Flow deck v2 the Crazyflie gets more information about its motion and can assist the pilot.

note: Currently assisted mode is only supported when flying using a computer and gamepad, not with a mobile device.

awareness of the surroundings to the Crazyflie and Crazyradio PA

The Multi-ranger deck measures the distance to objects forward/back/left/right and up. It can be used for obstacle avoidance, mapping a room or games where the Crazyflie 2.X “bounces” between the walls of a room. Combine with a Flow deck v2 to measure the distance to the floor as well and support autonomous flight.

Part List

spare part	
spare part	
spare part	
spare part	
spare part	
spare parts	
spare parts	
spare part	
Crazyflie 2.1 Plus control board	1
350mAh LiPo battery()	1
Battery holder()	1
Foam battery pad	1
Propeller guards (1 spare)()	5
Standing legs (1 spare)()	5
Brushless motors ()	4
Short (black) screws	14
Long (silver) screws	4
Short male deck connectors	2
Long male deck connectors	2
CW propellers (3 spare) ()	5

Compliance & Logistics

HSCODE	9023009000
USHSCODE	9023000000
UPC	
EUHSCODE	9023001000
COO	CHINA

CertificationInfo	links
CE	CE_link
EUDOC	EUDOC_link
FCC	FCC_link
ROHS	ROHS_link
TELEC	TELEC_link
UKDOC	UKDOC_link

Logistics	Value
ECCN	EAR99
HSCODE	9023009000
USHSCODE	9023000000
EUHSCODE	9023001000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Crazyflie-2-1-Brushless-p-6315.html>
- [Start here](#)
- [Development](#)
- [Getting help](#)
- [crazyflie_2_1_plus-datasheet.pdf](#)

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