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- Robotic (https://www.seeedstudio.com/robotic-c-757.html) /
- <u>Drones (https://www.seeedstudio.com/category/Drones-c-85.html)</u> /
 - <u>Crazy Flie (https://www.seeedstudio.com/crazy-flie-c-830.html)</u> /
 - Crazyradio PA long range 2.4Ghz USB radio dongle with antenna











Crazyradio PA - long range 2.4Ghz USB radio dongle with antenna

Crazyflie 2.0 - Prototyping expansion to a seeedstudio.com/Crazyflie-2-0-Prototyping-expansion-board-p-211/1.http://www.seeedstudio.com/)

<u>Crazyflie 2.0 - LED-ring Expansion Board (https://www.seeedstudio.com/Crazyflie-2-0-LED-ring-Expansion-Board-p-2105.html)</u> \$20.00

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<u>Crazyflie 2.0 debug adapter kit (https://www.seeedstudio.com/Crazyflie-2-0-debug-adapter-kit-p-2114.html)</u> \$30.00

4

Micro USB Cable - 48cm (https://www.seeedstudio.com/Micro-USB-Cable-48cm-p-1475.html) \$2.50

DESCRIPTION MORE INFORMATION DOCUMENTS LEARN

Service PA is a long range open USB radio dongle based on the from Nordic Service Serv

The Crazyradio PA is not only for usage together with the Crazyflie and Crazyflie 2.0. Since it's an open project with firmware written from scratch and a Python API for usage it's great building block for systems that require longer range than WiFi and doesn't have the same requirements for bandwidth. The hardware comes shipped with the latest firmware as well as a bootloader that enables firmware upgrades via USB without any additional hardware needed.

The Crazyflie PA is compatible with the first generation of the Crazyflie, but will not give the same range increase as with the Crazyflie 2.0.

Features

- Radio power amplifier giving 20dBm output power
- 1km range LOS with Crazyflie 2.0
- 2x5 2.54mm header for prototyping (not mounted)
- Hardware support for PPM
- Same mechanical footprint as the first generation Crazyradio
- Open source firmware
- Firmware upgrade via USB
- Low latency

Specifications

- Based on nRF24LU1+ chip from Nordic Semiconductor
- 8051 MCU at up to 16MHz with 32Kb flash and 2Kb SRAM

- 2.4GHz ISM band radio
- USB device peripheral



125 radio channels

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- 2Mbps, 1Mbps and 250Kps communication datarate
- Sends and receives data packets of up to 32 bytes payload
- Auton@tically handles addresses and packet ack
- Hardware SPI and UART
- Combatible with Enhanced ShockBurst protocol from Nordic Semiconductor

Radio Specification

- 20dBm output power (100mW)
- Low Noise Amplifier (LNA)
- RPSMA connector
- Can be powered with up to 13V via expansion header
- 2x5 2.54mm expansion header with following signals (not mounted):
- Hardware support for PPM input
- Up to 13V input power
- GND
- PPM
- SPI/UART
- Standard USBA connector

Mechanical Specification

- Weight: 6g
- Size (WxHxD): 58x16x6.5mm (including connectors)

Resources

- Bitcraze (http://www.bitcraze.se)
- Wiki (http://wiki.bitcraze.se)
- Forum (http://forum.bitcraze.se/)

Tech Support

If you have any further question for technical support, please contact support@bitcraze.io

Tags: