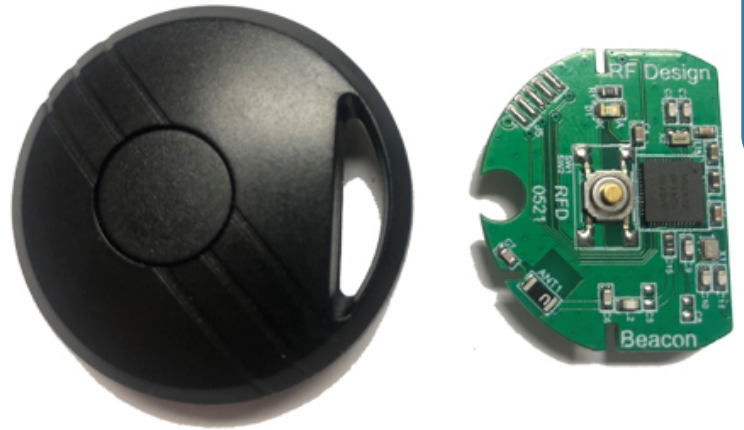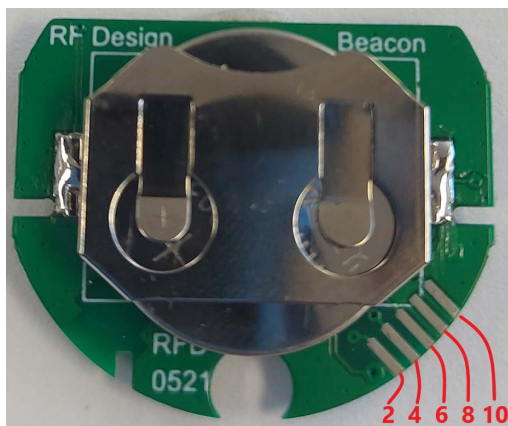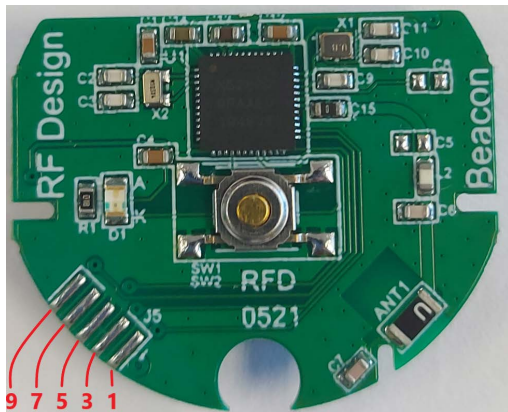# RFD
BEACON

Product Description

The RFD Beacon is a compact portable tag that runs on a CR2032 coin-cell battery with an ultra-low power NRF52832 chip and utilizes Bluetooth Low Energy (BLE) V5. The tag has one programmable button and a LED for use during development. The RFD Beacon also supports complete Over-The-Air (OTA) Device Firmware Upgrade (DFU) for firmware updates on the nRF52832 chip.

Processor Key Features

- 64 MHz Cortex-M4 with FPU
- 512/256 KB Flash, 64/32 KB RAM
- 2.4 GHz Transceiver
- Bluetooth Low Energy
- +4 dBm TX power
- 128-bit AES

Highlights

- Ultra-compact form factor
- Full OTA DFU for protocol stack and application
- 1 x button
- 1 x LED
- Fully programmable
- Source code and apps for iOS and Android available as downloads

Specifications

- Size: 38.4Ø x 13.8mm
- Battery Capacity: 210mAh
- Waterproof: No

Programming pinouts:

A standard 10 pin JTAG cable is used to program/debug the unit and slides over the PCB.

Debug IN Connector

VDD

1	2	SWDIO
3	4	SWDCLK
5	6	SWO
7	8	
9	10	RESET

Pin Header 2x5, 1.27mm

RF DESIGN