

Tap Beacon Functional Description

The Tap Beacon is a non-connectable Bluetooth low energy (BLE) device in broadcasting mode. It transmits information that is stored internally. Because the non-connectable broadcasting does not activate any receiving capabilities, it achieves the lowest possible power consumption by simply waking up, transmit data and going back to sleep. The default wake up cycle is once per second but can be adjusted through special commands. All functionality is provided by the CC2541 single chip processor. The radio uses a chip antenna (2450AT42A100)

The device is powered by two AA batteries, resulting in an expected life of over two years. No external connections exist.

In addition to the BLE Beacon a passive NFC RFID chip (Mifare Ultralight) is mounted inside the device. There is no connection between RFID and BLE devices.