

RSL10-COIN-GEVB

RSL10-COIN-GEVB Programming

RSL10-COIN-GEVB is a Bluetooth® beacon board featuring RSL10, the industry's lowest power Bluetooth 5 SoC, and NCT375, a temperature sensor. This board is battery powered and advertises temperature, battery voltage and URL as advertising/beacon packets.

Brief Beacon Enablement Instructions

- To allow third party app installation on Android phones please go to *Settings* → *Security* and enable “*Unknown Sources*”.
- Access the beacons by going into the *Nearby* section of your phone. Please select *Settings* → *Google* → *Nearby*
- Note [AND9710/D](#) on www.onsemi.com describes Eddystone beacon applications with RSL10.

Eddystone Beacon software is preloaded onto the board and advertises ambient temperature from sensor device NCT375, battery voltage and URL link www.onsemi.com/idk Advertising interval is set to 2 s.

Source code of the beacon software, *Eddystone_TLM_URL_sleep* can be downloaded from <http://www.onsemi.com/PowerSolutions/evalBoard.do?id=RSL10-COIN-GEVB>.

This workspace can be imported easily into RSL10 SDK, which can be downloaded from <http://www.onsemi.com/PowerSolutions/evalBoard.do?id=RSL10-002GEVB>.

TLM and URL frames can be captured by generically available beacon apps. Examples on *Android OS* include Beacon scanner, Beacon Toy, Beacon manager, Beacon simulator (Figure 1).

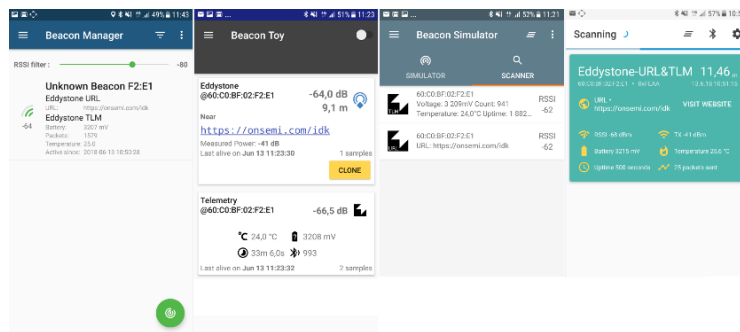


Figure 1. Various Generic Beacon Apps Supporting Android OS



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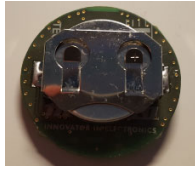
EVAL BOARD USER'S MANUAL



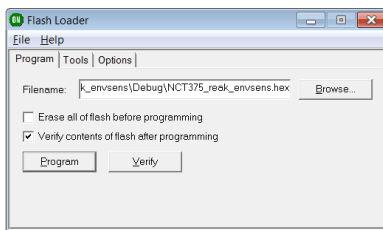
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To modify the preloaded FW, please follow the below instructions to flash new code:

1. Insert coin battery into the socket per following picture:



2. Install RSL10 development tools and launch the Flashloader.exe. Include the path of the hex file you plan to flash into the coin (e.g. Eddystone_TLM_URL_sleep.hex)



3. Connect Jlink Ultra+ with needle adapter Tag Connect, TC2050-1DC to CON1 of the board and hold it. Two green LEDs of Jlink have to be ON.



4. When connected just click PROGRAM button of Flashloader terminal application as described in step 2.
5. After flashing, green LED1 should blink for 2 s. If not, press the reset button on the Coin board.

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