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Technical Description

The CC2540Dongle is an evaluation board for the CC2540 chip from Texas Instruments. The board is powered through USB.

The CC2540Dongle included with the development kit can be used as a BLE sniffer and monitor packets while the SimpleBLE Demo is running. The SmartRF Protocol Packet Sniffer software can be downloaded from www.ti.com/packetsniffer.

The CC2540 System on Chip has a differential RF output. On the CC2540Dongle board this differential output is transformed to a single ended, 50 ohm signal through an integrated balun from Johanson Technology (2450BM15A0002). Additionally the balun has integrated filter components which greatly reduces harmonic radiation. The single ended output of the balun is connected to an on-board PCB antenna.