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Technical Description

The CC2544Dongle is an evaluation board for the CC2544 chip from Texas Instruments. The board is powered through USB.

The CC2544Dongle is preloaded with a Packet Error Rate test that can be used with a CC2543EM on a SmartRF05EB, where the CC2543EM is set as a remote device (receiver) and the CC2544Dongle as a master device (transmitter).

The CC2544 System on Chip has a differential RF output. On the CC2544Dongle board this differential output is transformed to a single ended, 50 ohm signal through an integrated balun from Murata (LFB182G45BG2D280). 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.