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Technical Description

The CC2540EM is an evaluation board for the CC2540 RF SoC from Texas Instruments.

The CC2540EM is preprogrammed with software that allows the user to create a simple Bluetooth® Low Energy (BLE) connection with another CC2540EM. Through one of the boards the user can read out the Received Signal Strength Indicator value, transfer simple key presses to the other board, and adjust certain BLE-specific connection parameters (not physical parameters such as output power; channel etc.).

The CC2540 System on Chip has a differential RF output. On the CC2540EM board this differential output is transformed to a single ended, 50 ohm signal through a passive component (capacitor/inductor) balun. The output of the balun is low pass filtered to reduce harmonic radiation and then connected to an SMA connector.

The antenna supplied with the board is W1010 from Pulse Electronics. The datasheet of the antenna is attached for further details.