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Technical Description

The CC2510EM is an evaluation board for the CC2510 system-on-chip from Texas Instruments. The board will function together with the SmartRF04 Evaluation Board, which is included in the CC2510-CC2511 Development Kit.

The CC2510 has a differential RF output. On the CC2510EM 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 antenna is a $\frac{1}{4}$ wave dipole antenna with 2 dBi gain.