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## Technical Description

The CC2543EM is an evaluation board for the CC2543 chip from Texas Instruments. The board will only function together with the SmartRF05EB Evaluation Board which is included in the CC2543-CC2544DK Development Kit.

The CC2543EM is preloaded with a Packet Error Rate test that can be used between two CC2543EM boards mounted on SmartRF05EB boards, where one is set up to operate as a remote device (receiver) and the other as a master device (transmitter).

The CC2543 System on Chip has a differential RF output. On the CC2543EM 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.