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## Technical Description

The CC2545EM is an evaluation board for the CC2545 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 CC2545EM is preloaded with a Packet Error Rate test that can be used between two CC2545EM 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 CC2545 System on Chip has a differential RF output. On the CC2545EM 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 single ended output of the balun is connected to an on-board PCB antenna.