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Technical Description

The CC2541SensorTag is a complete reference design for *Bluetooth* 4.0 low power applications using the CC2541 chip from Texas Instruments. The design is powered with a CR2032 button cell battery.

The CC2541SensorTag is preloaded with FW to communicate with a *Bluetooth* Smart Ready device such as an iPhone and the total solution will come with a downloadable app from Apple's App Store.

The CC2541 System on Chip has a differential RF output. On the CC2541SensorTag this differential output is transformed to a single ended, 50 ohm signal through a balun. The single ended output of the balun is connected to an on-board PCB antenna.

Antenna description

The CC2541SensorTag has an integrated meander monopole PCB antenna, see picture below.

The typical output power of the CC2541 device is 0 dBm at 2440 MHz and the maximum e.i.r.p. was measured to be 0.0 dBm, i.e. the maximum antenna gain would be:

Maximum e.i.r.p.:	0.0 dBm
Conducted output power:	0 dBm

Maximum antenna gain at 2440MHz:	0 dBi
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