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Technical Description

The CC1101EM-868-915, see Figure 1, includes Texas Instruments' CC1101, which is a sub-1 GHz transceiver designed for low power wireless applications.

CC1101 has a balanced output (RF_N and RF_P), which 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 attenuate harmonic radiation and then connected to an SMA connector.

The antenna supplied with the board is W5012 from Pulse Electronics. The antenna datasheet is attached for further details.

The CC1101EM-868-915 cannot be pre-programmed and CC1101 will not be in active mode (transmit or receive) at power-up. The user needs to configure CC1101 into active mode.



Figure 1. CC1101EM-868-915