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Technical Description

The CC1101-CC1190EM-915, see Figure 1, includes Texas Instruments' CC1101, which is a sub-1 GHz transceiver designed for low power wireless applications and CC1190, which is an RF Front End for low-power and low-voltage wireless applications at 850 - 950 MHz.

CC1101 has a balanced output (RF_N and RF_P), which is transformed to a single ended signal through a passive component (capacitor/inductor) balun. The output of the balun is filtered by a SAW filter and then connected to CC1190. The output of the CC1190 is connected to an SMA connector. The CC1190 is enclosed by a standard surface mount RF shield.

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

The CC1101-CC1190EM-915 cannot be pre-programmed and neither CC1101 nor CC1190 will in active mode (transmit or receive) at power-up. The user needs to configure CC1101 and CC1190 into active mode.



Figure 1 CC1101-CC1190EM-915