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Technical Description

The CC1110EM-868-915, see Figure 1, includes Texas Instruments' CC1110, which is a sub-1 GHz System-on-Chip (SoC) device designed for low power wireless applications.

The CC1110 combines a sub-1 GHz transceiver and a single-cycle 8051 MCU, 32 kB of in-system programmable flash memory and 4 kB of RAM.

CC1110 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 type W5017 from Pulse Electronics. The antenna datasheet is attached for further details.

The CC1110EM-868-915 is not pre-programmed and CC1110 will not be in active mode (transmit or receive) at power-up. The user needs to configure CC1110 into active mode.

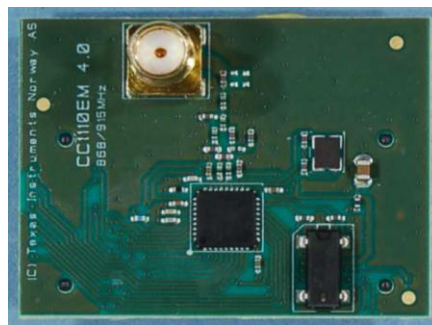


Figure 1
CC1110EM-868-915