

Technical description for Texas Instruments EM430F6147RF900:

The EM430F6147RF900 is an evaluation board for the CC430F6147 chip from Texas Instruments. The board will only fully function once software has been downloaded to the CC430F6147 System on Chip (SoC). This may be done with the Texas Instruments MSP-FET430UIF or MSP-FET430PIF JTAG interface, which is required to program or control the device.

Per default, the EM430F6147RF900 is pre-programmed with a blinking LED software, the does neither receive nor transmit RF signals. User software needs to be generated and downloaded onto the CC430F6147 SoC in order use the board beyond the blinking LED function.

The CC430F6147 System on Chip has a differential RF output. On the EM430F6147RF900 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 filtered to reduce harmonic radiation and then connected to an SMA connector.

The antenna supplied with the board is S463AM-915 from Nearson. The datasheet of the antenna is attached for further details.

Frequency range: 902 – 928MHz (North America)
Type of modulation: 2-GFSK
Occupied bandwidth: 11.2kHz
Antenna connector: standard SMA

This evaluation board is intended for use for ENGINEERING DEVELOPMENT, DEMONSTRATION OR EVALUATION PURPOSES ONLY and is not considered by TI to be a finished end product fit for general consumer use.