

Technical description for Texas Instruments MSP-EXP430F5137R9T:

The MSP-EXP430F5137R9T is an evaluation board for the CC430F5137 chip from Texas Instruments and the Amber-Wireless AMB8520 module. The board will only fully function together with the MSP-EXP430F6137Rx base board or at least an eZ430 series emulator to program and control the device.

The user needs to program the board with application code as described in the User's Guide (SLAU460) or the corresponding Quick start guide of the MSP-EXPCC430RF9 kit of which this board is part of.

The CC430F5137 System on Chip has a differential RF output. On the AMB8520 module (mounted on the MSP-EXP430F5137R9T 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 a chip antenna.

The chip antenna mounted on the board is 0920AT50A080 from JTI. The datasheet of the antenna is attached for further details.

Frequency range: 902 – 928MHz (North America)

Type of modulation: 2-GFSK

Occupied bandwidth: 11.6kHz

Antenna connector: chip antenna mounted on PCB

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.