



Evaluation and Development Kit for EM9209

Description

The EMEDVK9209 Evaluation and Development kit for EM9209 is designed to evaluate the EM9209 High Sensitivity 2.4GHz RF transceiver and prototype user applications in an easy-to-configure and easy-to-use environment.

It allows the demonstration and evaluation of the DC and RF parameters of the EM9209 High Sensitivity 2.4GHz RF transceiver solution. A PC user-friendly GUI (Graphical User Interface) allows you to easily configure the EM9209.

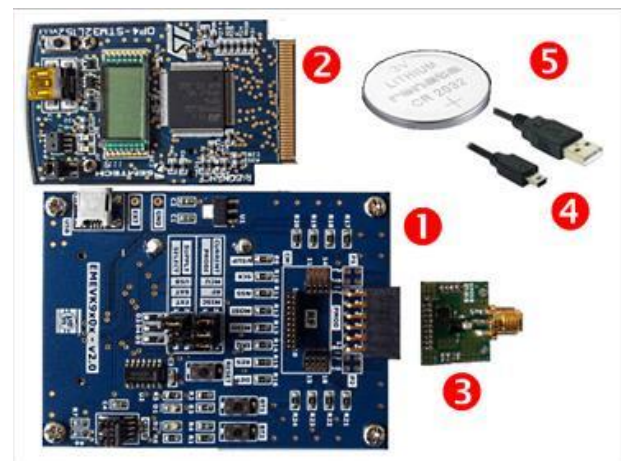
The EMEDVK9209 kit provides as well a complete hardware solution to build your own application. The kit is equipped with a SWD connector to debug and program via USB the embedded Low Power Cortex-M3 32-bit MCU using any third-party software development environment supporting STM32 Low Power Cortex M3.

The EMEDVK9209 can operate directly from the USB supply, from a 3.0V coin cell battery or from an external power-supply.

Thanks to the several available configurations and test points, the EMEDVK9209 makes measurements like power consumption, receiver sensitivity or output power really simple to be done

Contents

- ❑ 1x Central Board EMEDVK9x0xCB ❶
- ❑ 1x Cortex-M3 board EMEDVK9x0xCM3 ❷
- ❑ 1x RF Module board EMRF9209 ❸
- ❑ 1x USB Cable ❹
- ❑ 1x Battery ❺
- ❑ 1x header + 1x cable for 10-pin 0.05" cortex connection
- ❑ User-friendly GUI software



Main features

EMEDVK9x0xCB Central Board:

- ❑ Easy connection to RF Module
- ❑ Cortex-M3 board connector slot
- ❑ Equipped with 10-pin 0.05" cortex connector for debug and programming
- ❑ Power supplied through USB, CR2032 battery or external power supply
- ❑ Reset button and push-buttons, leds

EMEDVK9x0xCM3 Cortex-M3 board:

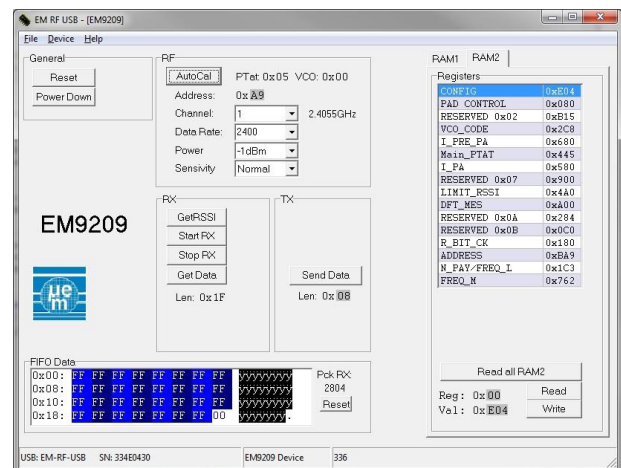
- ❑ STM32L152 Low Power Cortex M3 MCU
- ❑ USB connector for running GUI application

EMRF9209 RF Module board:

- ❑ Full EM9209 High Sensitivity 2.4GHz transceiver solution
- ❑ SMA connector

Capabilities

- ❑ USB interface for control from a PC GUI
- ❑ Measure power consumption
- ❑ Control RF parameters: output power, frequency, datarate
- ❑ Measure RX sensitivity
- ❑ Evaluate TX parameters
- ❑ Demonstrate two way communication
- ❑ Range testing
- ❑ Prototyping by using embedded 32-bit MCU



Ordering Information

Part Number	Description
EMEDVK9209	Tools Development Kit for EM9209