



STM32W-RFCKIT

STM32W Low-cost RF control kit

Data brief

Features

- STM32W System-on-Chip 32-bit ARM® Cortex™-M3 processor
- 2.4 GHz IEEE 802.15.4 transceiver and Lower MAC
- 128-Kbyte Flash and 8-Kbyte RAM memory
- Flash memory upgrade capability via USB
- ARM Serial Wire Debug (SWD) interface (Remote board)
- Designed to be powered by USB or with 2 AAA batteries (Remote board)
- Two user-defined LEDs (green and yellow)
- Five push buttons to create easy-to-use remote functions (Remote board)
- Interoperable with other STM32W tool boards to enlarge wireless network capabilities
- 802.15.4, ZigBee RF4CE, ZigBee Pro, 6LoWPAN (Contiki) wireless protocols

Description

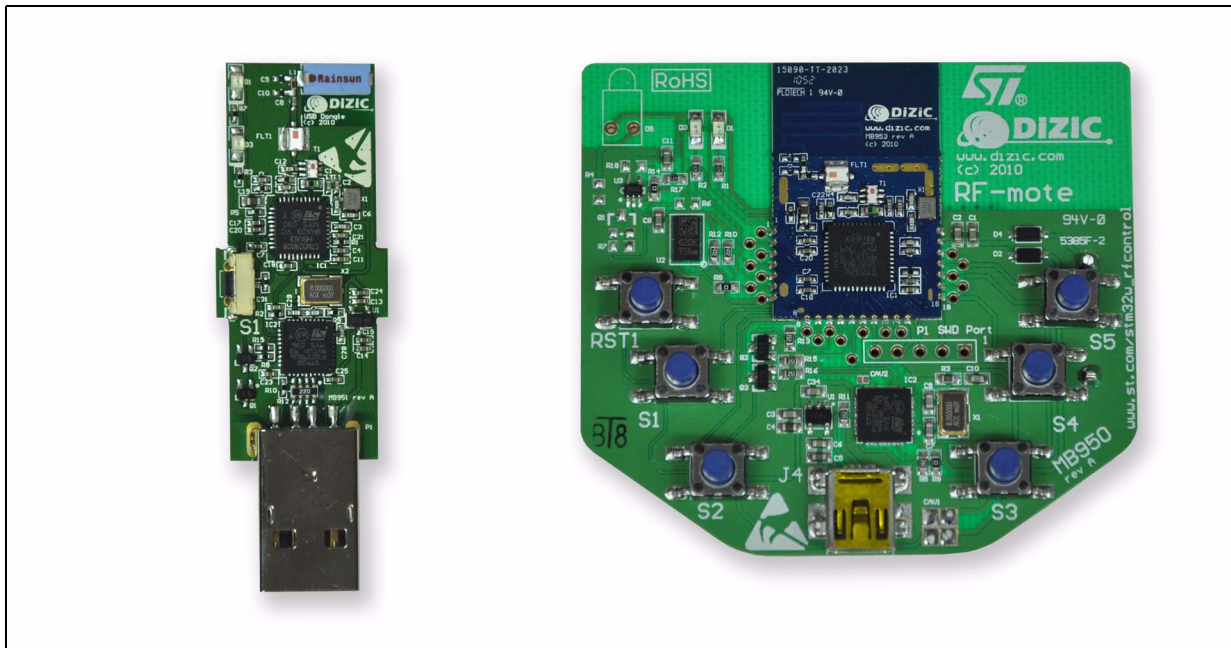
The STM32W RF Control Kit is a low-cost and quick way to get started using STM32W-based point-to-point wireless control applications.

It includes everything required by beginners and experienced users to start developing RF control systems. The STM32W RF Control Kit includes one remote board and one receiver board (USB dongle), both using the STM32W microcontroller packaged in a VFQFPN48 for the remote board and VFQFPN40 for the USB dongle.

Both boards are also fitted with an STM32F103 microcontroller providing an easy-to-connect solution between a USB link to the PC world.

Debug capabilities are provided by a mini-JTAG connector interface on the remote board (not fitted).

Free, ready-to-run application firmware are provided at www.st.com/stm32w_rfcontrol.



1 System requirements

- Windows® PC (XP)
- USB type A to mini-B cable

2 Development toolchain

- IAR Embedded Workbench® for ARM®: Integrated development environment and optimizing C/C++ compiler for ARM
- GNU Compiler Collection (GCC) compiler system

3 Demonstration software

Demonstration software is pre-loaded in the board's Flash memory for easy evaluation of RF communication in Standalone mode. For more information and to download the latest version available, please refer to www.st.com.

4 Revision history

Table 1. Document revision history

| Date | Revision | Changes |
|-------------|----------|------------------|
| 19-Jan-2011 | 1 | Initial release. |

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