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Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

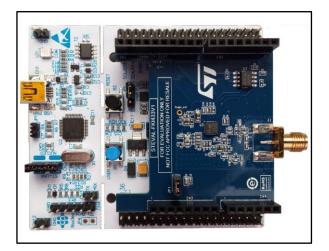




STEVAL-FKI433V1

Sub-1 GHz transceiver development kit based on S2-LP

Data brief



Features

- S2-LP narrow band ultra-low power sub-1 GHz transceiver in a standalone RF Module tuned for 430 - 470 MHz frequency bands
- STM32 Nucleo 64 development board with STM32L152RE MCU
- Suitable for Wireless M-Bus systems
- Associated S2-LP development kit including documentation, firmware for STM32L and GUI
- Programmable RF output power up to +16 dBm
- Modulation schemes: 2-FSK, 2-GFSK, 4-FSK, 4-GFSK, OOK, and ASK
- Air data rate from 0.3 to 500 kbps
- Ultra-low power consumption:
 - 6.7 mA RX
 - 10 mA TX @ +10 dBm
- Excellent performance of receiver sensitivity (up to -130 dBm)
- Low duty cycle RX / TX operation mode
- Automatic acknowledgement, retransmission and timeout protocol engine
- SPI interface for microcontroller
- USB interface

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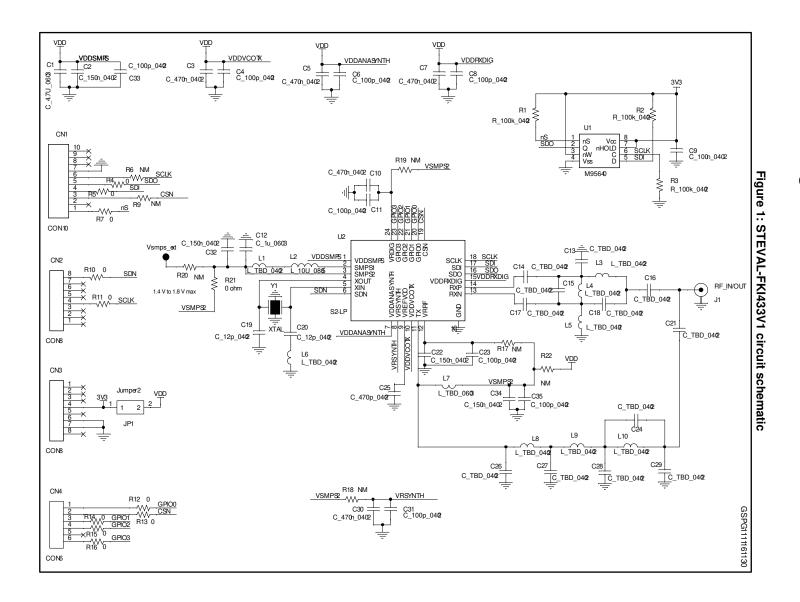
Description

The STEVAL-FKI433V1 evaluation board is based on the S2-LP sub-1 GHz ultra-low power, low data-rate transceiver suitable for ISM bands and Wireless M-Bus.

The motherboard is the NUCLEO-L152RE board with STM32L low power microcontroller to control the S2-LP device and integrated ST-LINK/V2-1 debugger and programmer for firmware updating.



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2 Revision history

Table 1: Document revision history

Date	Version	Changes
14-Nov-2016	1	Initial release.



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