STEVAL-IKR002V3D

SPIRIT1 433 MHz low data rate transceiver daughterboard

Description

The STEVAL-IKR002V3D product evaluation board is based on the SPIRIT1, a very low-power RF transceiver intended for RF wireless applications in the sub 1 GHz frequency band.

Features

- SPIRIT1 low power sub GHz transceiver in a standalone RF module tuned for 433 MHz

- Modulation schemes: 2-FSK, GFSK, MSK, GMSK, OOK, and ASK

- Suitable for wireless M-BUS applications

- Programmable air data rate: from 1 to 500 kbps

- Very low power consumption: 9.2mA RX and 19.5 mA TX at +11 dBm

- Excellent receiver sensitivity (down to -120 dBm)

- Low duty cycle RX/TX operation mode

- Automatic acknowledgment, retransmission, and timeout protocol engine

- AES 128-bit encryption co-processor

- SPI interface for microcontroller

- RoHS compliant

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1 Schematic diagram

Figure 1. STEVAL-IKR002V3D circuit schematic
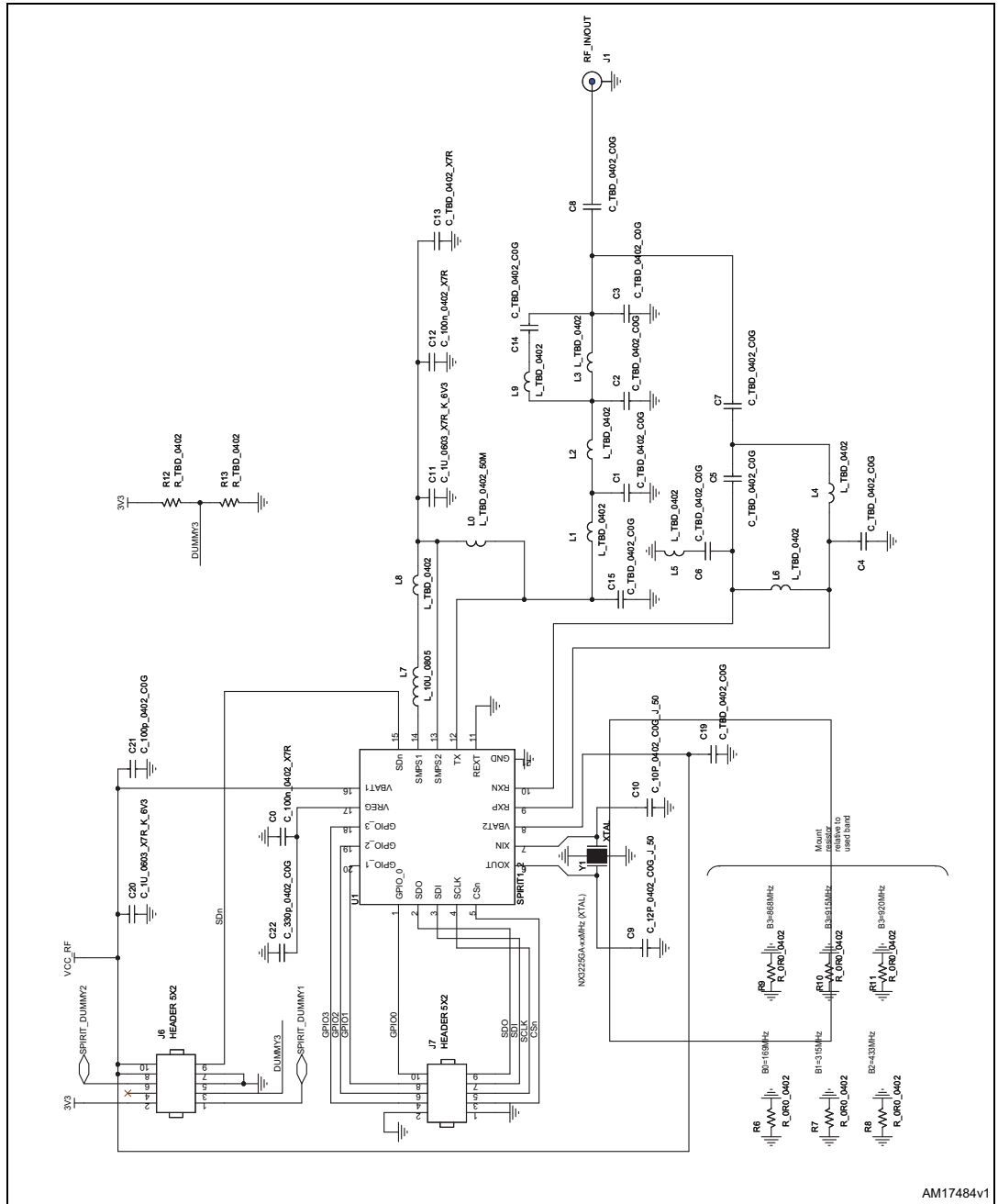
2 Revision history

Table 1. Document revision history

Date	Revision	Changes
07-Aug-2014	1	Initial release.

IMPORTANT NOTICE – PLEASE READ CAREFULLY