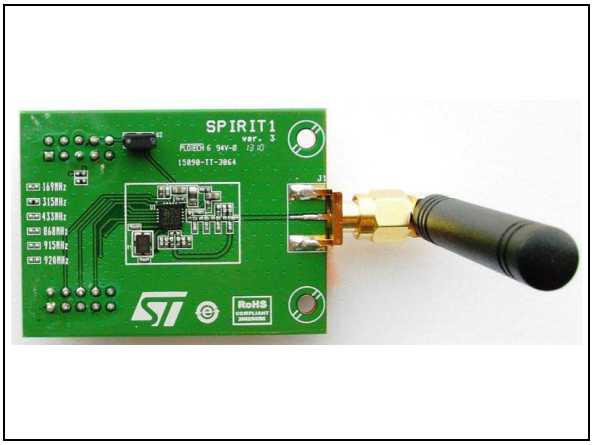
STEVAL-IKR002V2D

SPIRIT1 315 MHz low data rate transceiver daughterboard

Data brief



Description

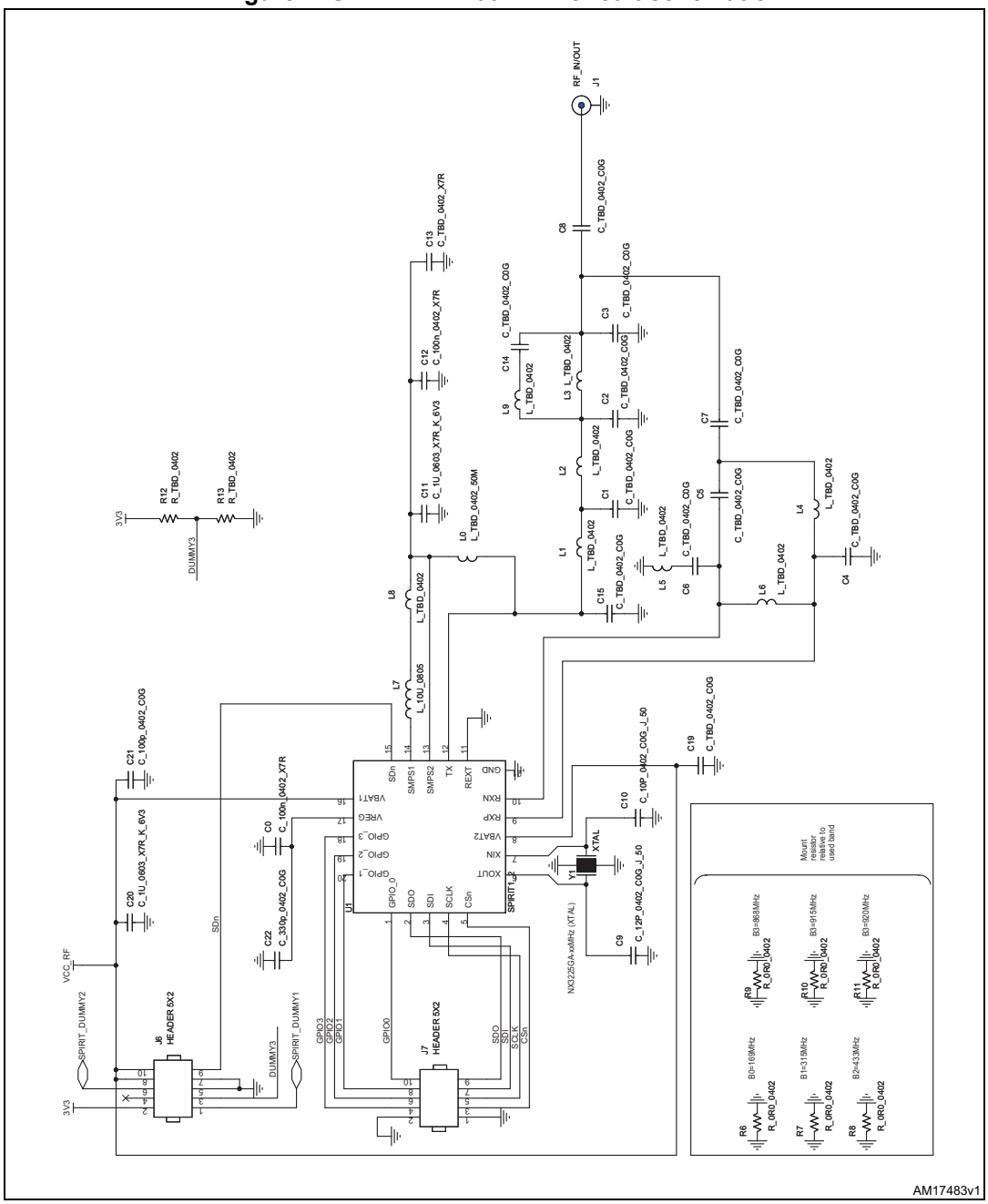
The STEVAL-IKR002V2D product evaluation board is based on the SPIRIT1, a very low-power RF transceiver intended for RF wireless applications in the sub-1 GHz frequency band.

Features

- SPIRIT1 low power sub GHz transceiver in a standalone RF module tuned for 315 MHz
- Modulation schemes: 2-FSK, GFSK, MSK,GMSK, OOK, and ASK
- Programmable air data rate: from 1 to 500 kbps
- Very low power consumption: 9.2 mA RX and 22 mA TX at +11 dBm
- Excellent receiver sensitivity (down to -110 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

1 Schematic diagram

Figure 1. STEVAL-IKR002V2D circuit schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
02-Oct-2014	1	Initial release.