

SPIRIT1 915 MHz low data rate transceiver daughterboard

Data brief



Description

The STEVAL-IKR002V5D 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 915 MHz
- Modulation schemes: 2-FSK, GFSK, MSK, GMSK, OOK, and ASK
- Programmable air data rate: from 1 to 500 kbps
- Very low power consumption: 9.8 mA RX and 20 mA TX at +11 dBm
- Excellent receiver sensitivity (down to -108 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

2 Revision history

Table 1. Document revision history

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

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