Description

The STEVAL-IKR002V4D 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 868 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: 9.7 mA RX and 21 mA TX at +11 dBm
- Excellent receiver sensitivity (down to -119 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-IKR002V4D circuit schematic
2 Revision history

Table 1. Document revision history

<table>
<thead>
<tr>
<th>Date</th>
<th>Revision</th>
<th>Changes</th>
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<tbody>
<tr>
<td>04-Jul-2014</td>
<td>1</td>
<td>Initial release.</td>
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