

STEVAL-IFS009V1

SPZB250 module for the STR9 dongle

Data brief

Features

- SPZB250 radio communication module based on the SN250 ZigBee[®] network processor
- LIS302DL digital MEMS in LGA14 package (optional). It can be accessed by the ZigBee network processor through an I²C bus
- STLM75 temperature sensor or compatible device in SO-8 package (optional). It is connected to the ZigBee network processor through an I²C bus
- Digital interfaces: one I²C and one SPI interface which can be used indifferently by the SN250 ZigBee network processor to interface with the STR9 dongle
- Supply voltage
- The extension board can be supplied externally from the STR9 dongle or internally by an onboard Li-ion battery. The battery has a capacity of 65 mAh which allows approximately one hour of operation. It is charged through a mini-USB connector. Two LEDs can be used to monitor the charging:
 - Red LED: charge in progress
 - Green LED: charge completed
- 1 button connected to the SN230 ZigBee network processor wal e- up input
- 3 LEDs connected to the SN250 ZigBee network processor:
 - Yellow LED: device connected
 - ๘ ระท LED: transmission ongoing
 - Red LED: general purpose
- A debug port
- RoHS compliant

Description

The STEVAL-IFS009V1 demonstration board operates in standalone mode. Alternatively, it can be used as an SN250 ZigBee interface with an application using the STR9 dongle.



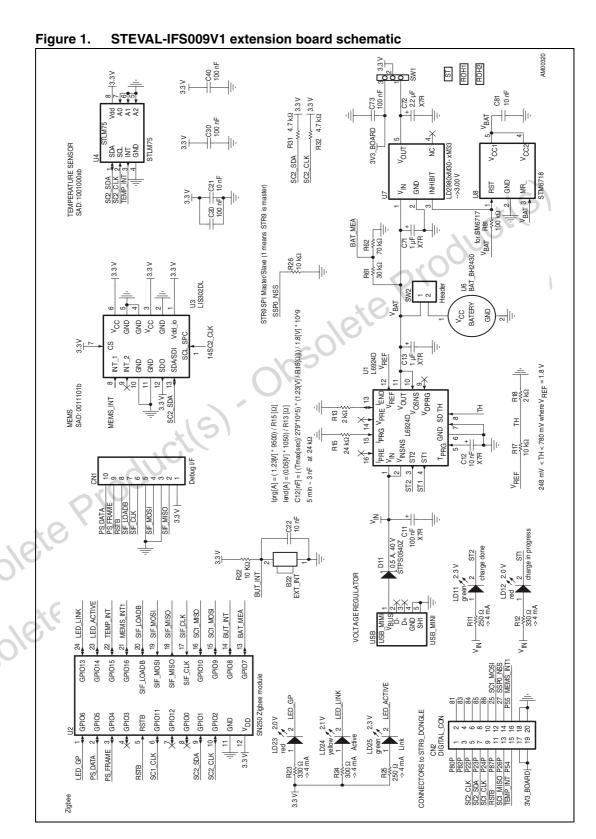
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The SN250 integrates a 2.4 GHz IEEE 802.15.4-compliant transceiver with a 16-bit XAP2b microprocessor. It features embedded Flash and FrAM nemories, as well as peripherals to help design ZigBee-based applications.

The extension board is supplied with demonstration firmware loaded in the SN250 Flash memory. The firmware source code is not provided by ST.

Circuit schematic STEVAL-IFS009V1

1 Circuit schematic

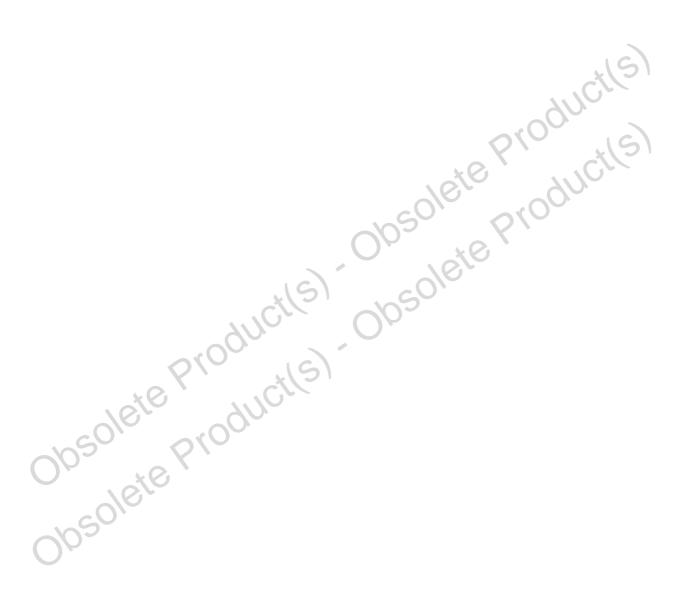


STEVAL-IFS009V1 Revision history

2 Revision history

Table 1. Document revision history

Date	Revision	Changes
22-Nov-2010	1	Initial release.



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