

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:
 - Yellew LFD: device connected
 - เลาจา 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.

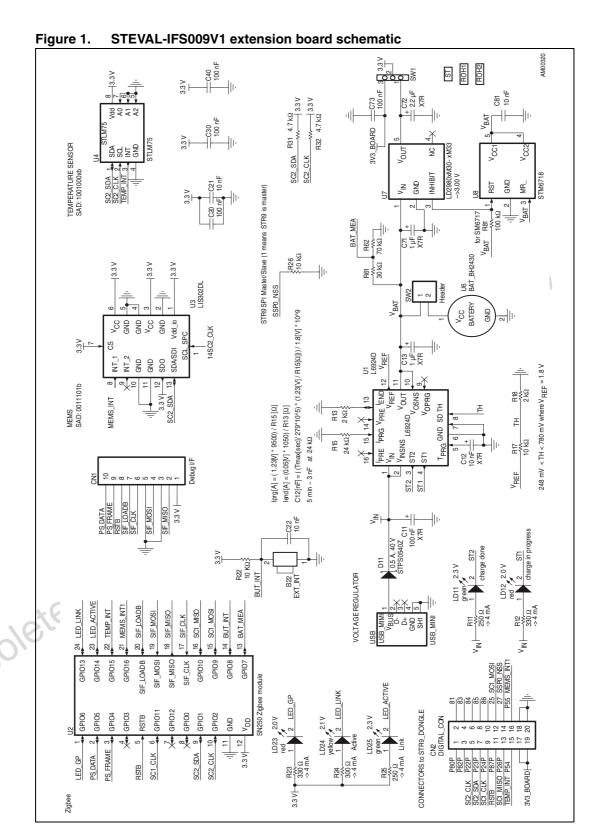


The SN250 integrates a 2.4 GHz IEEE 802.15.4-compliant transceiver with a 16-bit XAP2b microprocessor. It features embedded Flash and FrAM inemories, as well as peripherals to help design ZigBee-based applications.

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.



Please Read Carefully:

Information in this document is provided solely in connection with ST products. STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, modifications or improvements, to this document, and the products and services described herein at any time, without notice.

All ST products are sold pursuant to ST's terms and conditions of sale.

Purchasers are solely responsible for the choice, selection and use of the ST products and services described herein, and ST assumes no liability whatsoever relating to the choice, selection or use of the ST products and services described herein.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted under this document. If any part of this document refers to any third party products or services it shall not be deemed a license grant by ST for the use of such third party products or services, or any intellectual property contained therein or considered as a warranty covering the use in any manner whatsoever of such third party products or services or any intellectual property contained therein.

UNLESS OTHERWISE SET FORTH IN ST'S TERMS AND CONDITIONS OF SALE ST DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY WITH RESPECT TO THE USE AND/OR SALE OF ST PRODUCTS INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE (AND THEIR EQUIVALENTS UNDER THE LAWS OF ANY JURISDICTION), OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

UNLESS EXPRESSLY APPROVED IN WRITING BY AN AUTHORIZED ST REPRESENTATIVE, ST PRODUCTS ARE NOT RECOMMENDED, AUTHORIZED OR WARRANTED FOR USE IN MILITARY, AIR CRAFT, SPACE, LIFE SAVING, OR LIFE SUSTAINING APPLICATIONS, NOR IN PRODUCTS OR SYSTEMS WHERE FAILURE OR MALFUNCTION MAY RESULT IN PERSONAL INJURY, DEATH, OR SEVERE PROPERTY OR ENVIRONMENTAL DAMAGE. ST PRODUCTS WHICH ARE NOT SPECIFIED AS "AUTOMOTIVE GRADE" MAY ONLY BE USED IN AUTOMOTIVE APPLICATIONS AT USER'S OWN RISK.

Resale of ST products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by ST for the ST product or service described herein and shall not create or extend in any manner whatsoever, any liability of ST.

ST and the ST logo are trademarks or registered trademarks of ST in various countries.

Information in this document supersedes and replaces all information previously supplied.

The ST logo is a registered trademark of STMicroelectronics. All other names are the property of their respective owners.

© 2010 STMicroelectronics - All rights reserved

STMicroelectronics group of companies

Australia - Belgium - Brazil - Canada - China - Czech Republic - Finland - France - Germany - Hong Kong - India - Israel - Italy - Japan -Malaysia - Malta - Morocco - Philippines - Singapore - Spain - Sweden - Switzerland - United Kingdom - United States of America

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

STMicroelectronics: STEVAL-IFS009V1