



# STEVAL-IFS013V1

## ZigBee® USB dongle demonstration kit based on the STM32 and SPZB260

Data brief

### Features

- Demonstrates the SPZB260 low power consumption ZigBee® module
- Provides a platform for evaluation of PC-based ZigBee® node for rapid start of ZigBee® technology
- Compatible with all other ZigBee® demonstration kits
- Provides full control of the dongle through a PC USB interface
- Operates under USB communication device class (CDC)
- Provides a JTAG interface for microcontroller firmware change/update

### Description

The purpose of the STEVAL-IFS013V1 demonstration kit is to provide a tool for evaluating the key features of STMicroelectronics' ZigBee®-compliant wireless networking solutions.

ZigBee® is the leading wireless control and sensory network solution and stands apart from other RF solutions as the only standards-based technology that addresses the unique needs of remote monitoring and control of sensory network applications.

ZigBee® enables broad-based deployment of wireless mesh networks with low-cost, low-power solutions and, for typical monitoring applications, is capable of running for years on inexpensive primary batteries.

The STEVAL-IFS013V1 dongle provides a USB interface which operates either under USB communication device class (CDC) for virtual COM port connectivity, or under device firmware upgrade (DFU) class for reprogramming an application through USB.



STEVAL-IFS013V1

All design source data is included in the demonstration kit, ready to be used in development.

Target applications for this solution include: ZigBee® network analysis and control via PC, universal PC-based ZigBee® "sink" node, and evaluation of low cost PC-based nodes for rapid start of ZigBee® technology.

1

**Figure 1. STEVAL-IFS013V1 schematic**



## 2 Revision history

Table 1. Document revision history

Date	Revision	Changes
03-Apr-2009	1	Initial release.

Obsolete Product(s) - Obsolete Product(s)

**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.

© 2009 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

[www.st.com](http://www.st.com)