

STEVAL-IDZ301V1 STEVAL-IDZ302V1

Demonstration board for the SPZB32W1 series of IEEE 802.15.4 ZigBee[®] radio communication modules

Data brief

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Features

- Integrated RF module belonging to the SPZB32W1 series of IEEE 802.15.4 ZigBee[®] modules
- 20-pin JTAG connector for programming and debugging purposes
- Hardware support for application development:
 - Temperature sensor
 - Circuitry for measuring the battery voltage
 - Two configurable push buttons
 - Two configurable LEDs
- Mini-USB connector and USB-RS-232 bridge
- Reset push button allows DC power source selection between the external power supply or external USB supply
- LED power indicator
- Jumper for boot activation
- Jumpers for serial communication setup (RS232 or mini-USB)
- 24-pin, double-row header for access to the remaining STM32W GPIO signals and interfaces
- The kit contains a software library including utilities and application samples

Description

The STEVAL-IDZ30xV1 is a demonstration board of the SPZB32W1 series of IEEE 802.15.4 ZigBee[®] RF modules based on the STM32W108CU6 microcontroller that integrates a 32-bit ARM[®] Cortex[™] - M3 microprocessor and a 2.4 GHz, IEEE 802.15.4 radio.

The STEVAL-IDZ30xV1 kit allows testing the performance of the RF, the features of the protocol libraries defined for the microcontroller, and prototyping the target application. The kit includes a development board and a software library that can be integrated in the structure of

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STEVAL-IDZ3UXVI

the packages available from the ST website for ZigBee PRO, Zigbee RF4CE and simplified MAC of the STM32W108 microcontroller family.

Table 1. Device summary

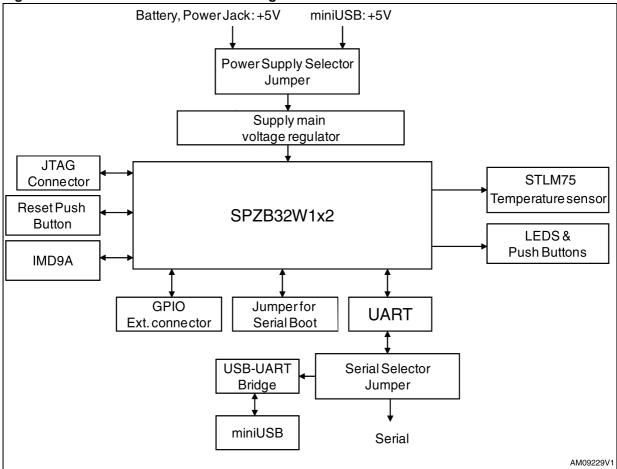
Order code	Module
STEVAL-IDZ301V1	SPZB32W1A2
STEVAL-IDZ302V1	SPZB32W1C2

September 2011 Doc ID 022056 Rev 1 1/6

1 Block diagram, schematic and main components

1.1 Block diagram

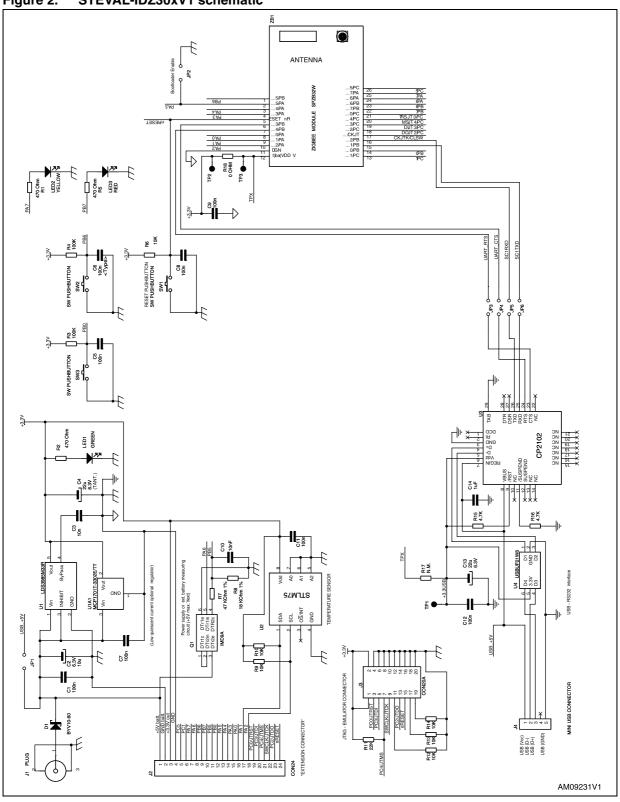
Figure 1. Steval-IDZ30xV1 HW block diagram



2/6 Doc ID 022056 Rev 1

1.2 **Schematic**

STEVAL-IDZ30xV1 schematic



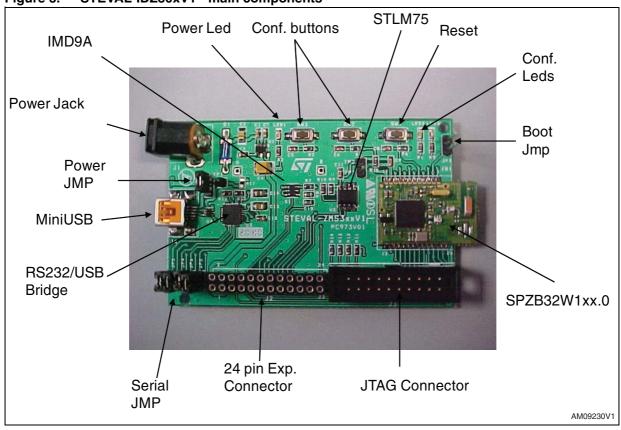
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Doc ID 022056 Rev 1

3/6

1.3 Main components

Figure 3. STEVAL-IDZ30xV1 - main components



577

2 Revision history

Table 2. Document revision history

Date	Revision	Changes
23-Sep-2011	1	Initial release.



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6/6 Doc ID 022056 Rev 1

