



STEVAL-IDZ301V1 STEVAL-IDZ302V1

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

Data brief

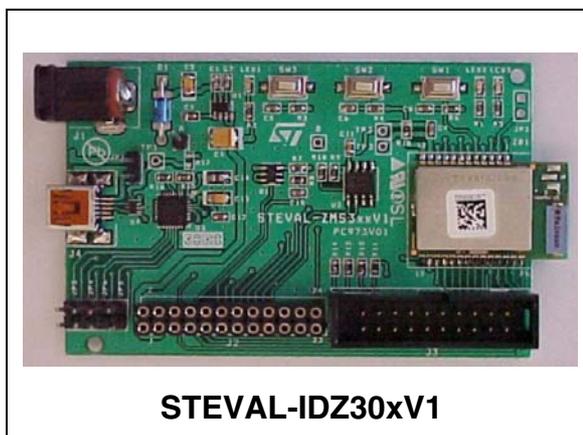
Features

- 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



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

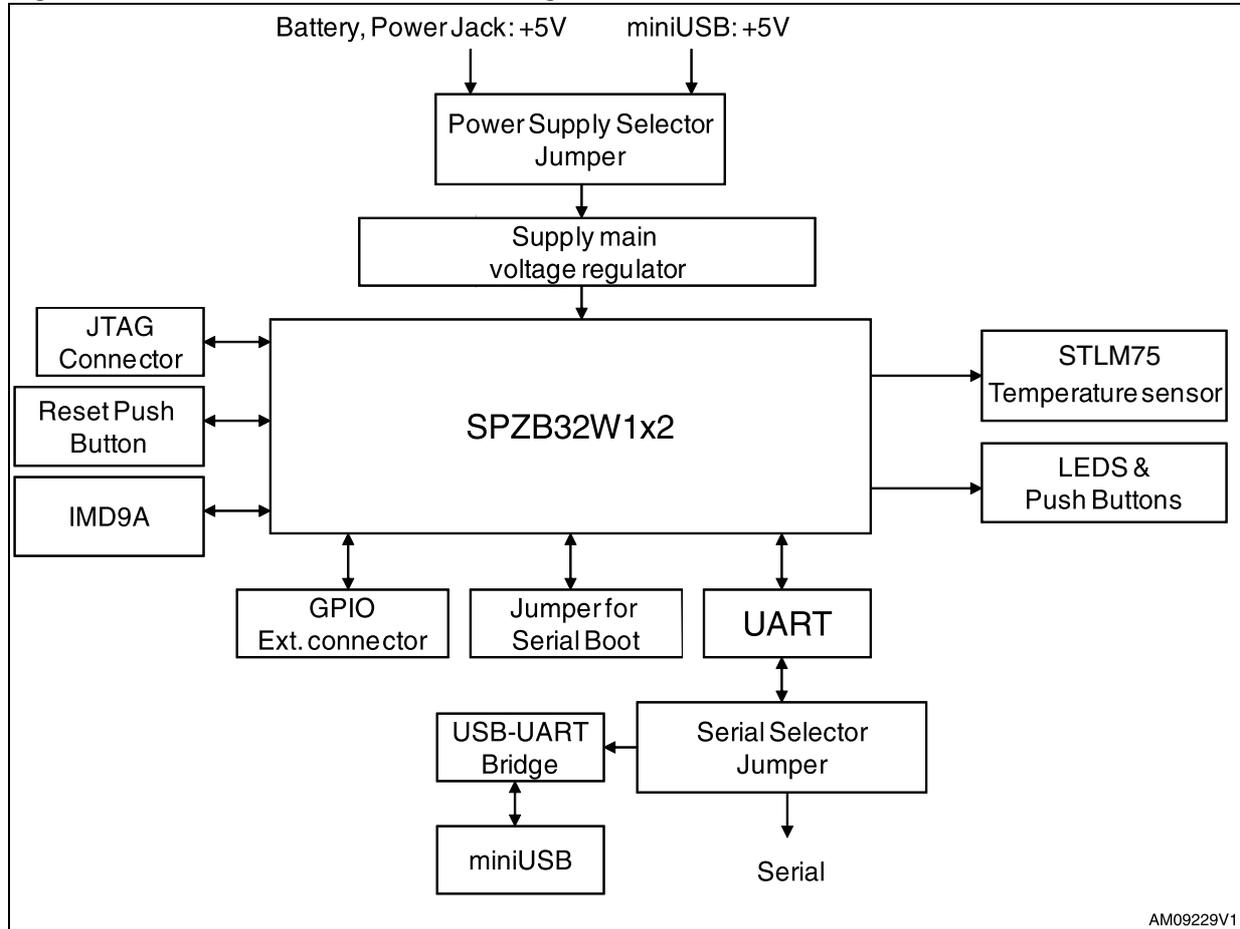
Table 1. Device summary

Order code	Module
STEVAL-IDZ301V1	SPZB32W1A2
STEVAL-IDZ302V1	SPZB32W1C2

1 Block diagram, schematic and main components

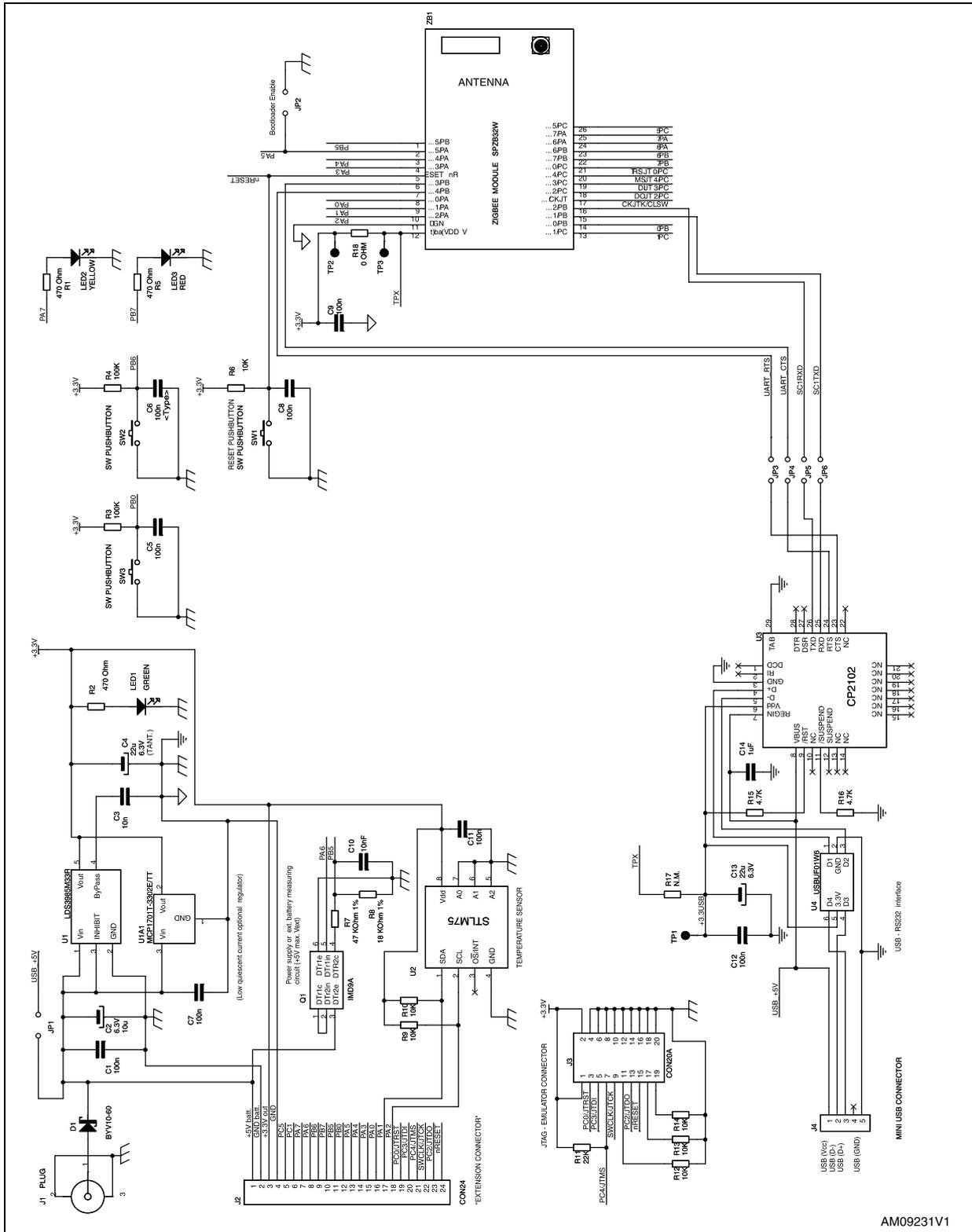
1.1 Block diagram

Figure 1. Steval-IDZ30xV1 HW block diagram



1.2 Schematic

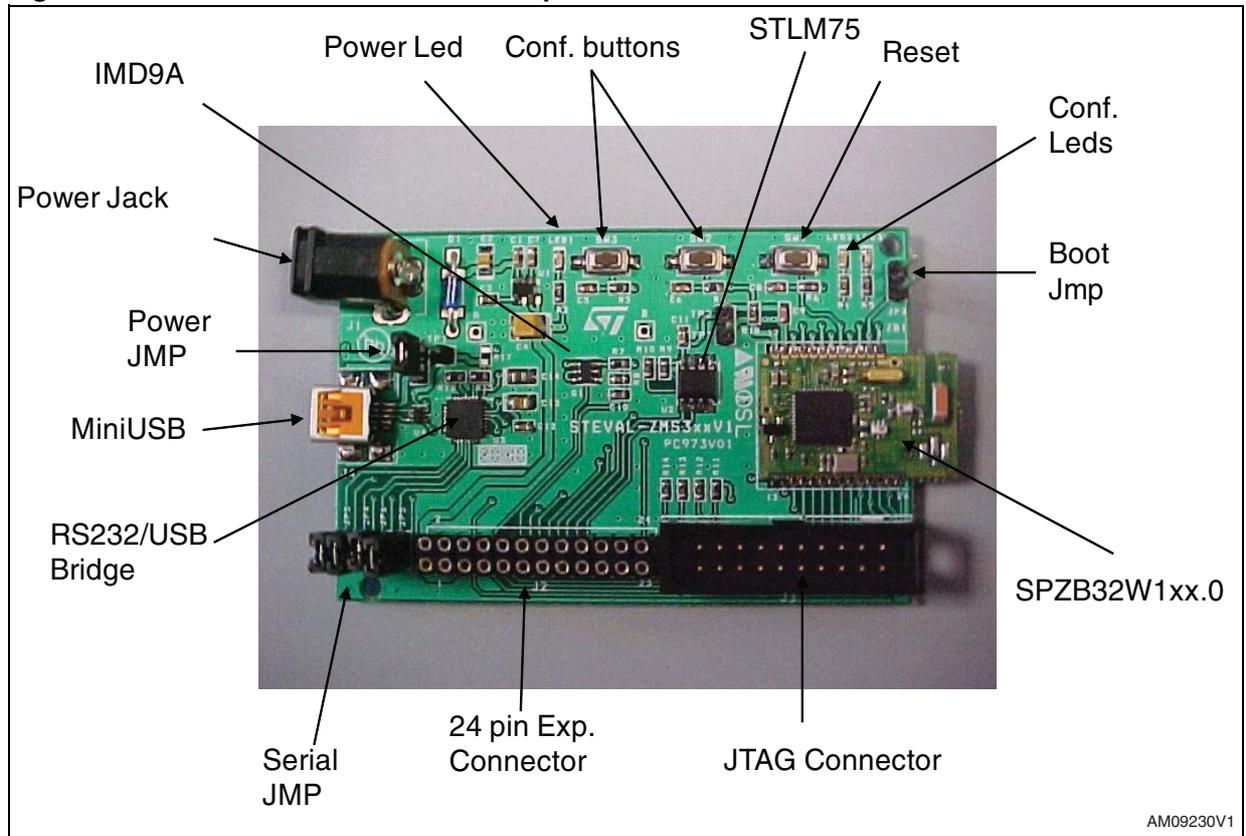
Figure 2. STEVAL-IDZ30xV1 schematic



AM09231V1

1.3 Main components

Figure 3. STEVAL-IDZ30xV1 - main components



2 Revision history

Table 2. Document revision history

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

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