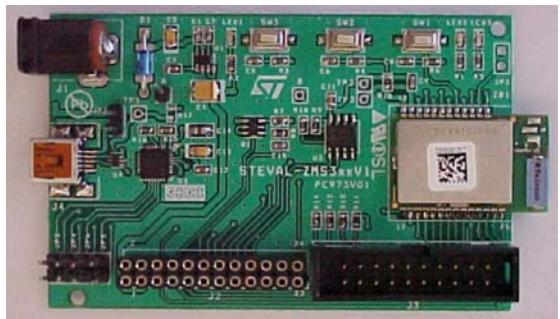


## Features

- 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

**STEVAL-IDZ30xV1**

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 |

## Description

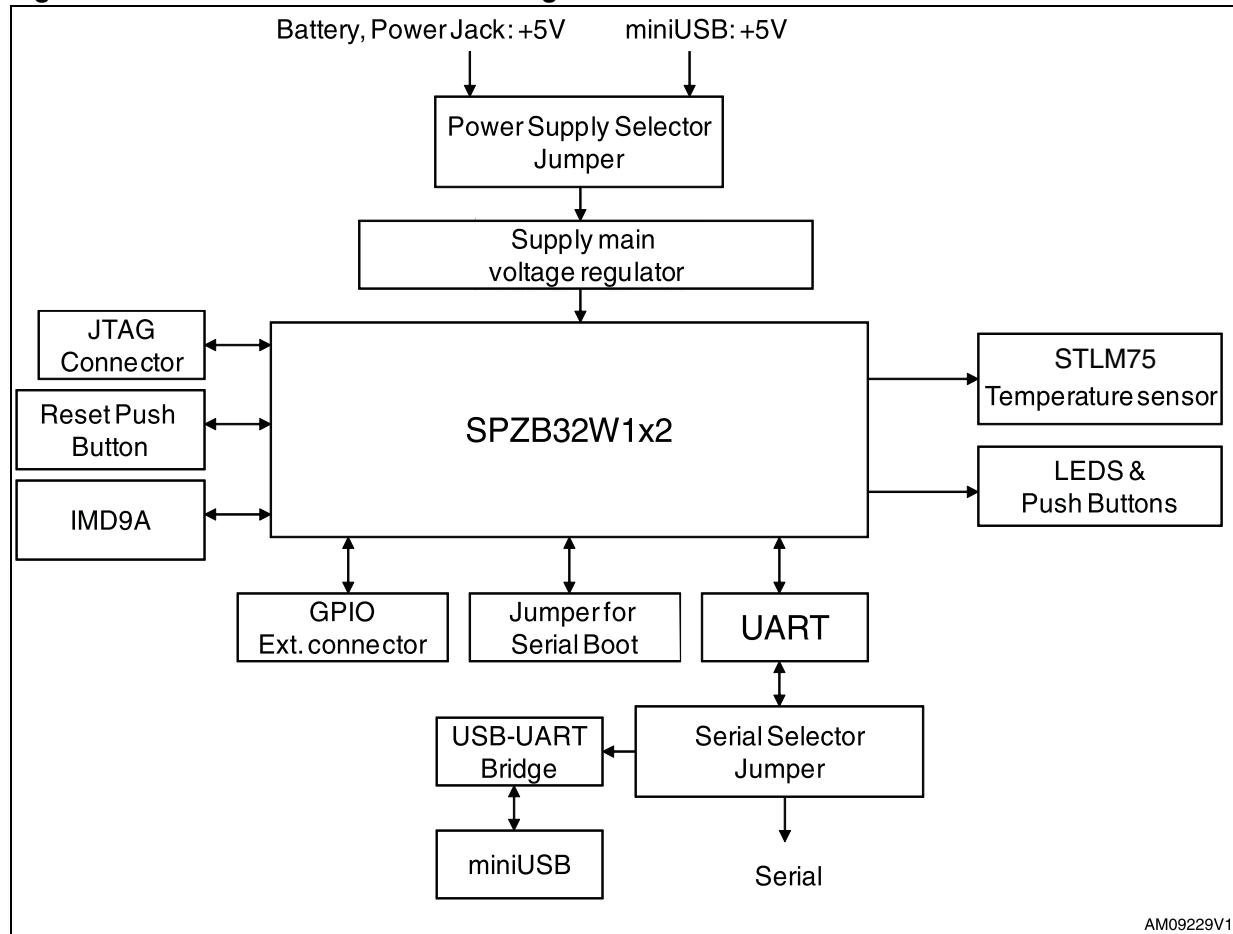
The STEVAL-IDZ30xV1 is a demonstration board of the SPZB32W1 series of IEEE 802.15.4 ZigBee® RF modules based on the STM32W108CU6 microcontroller that integrates a 32-bit ARM® Cortex™ - M3 microprocessor and a 2.4 GHz, IEEE 802.15.4 radio.

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

# 1 Block diagram, schematic and main components

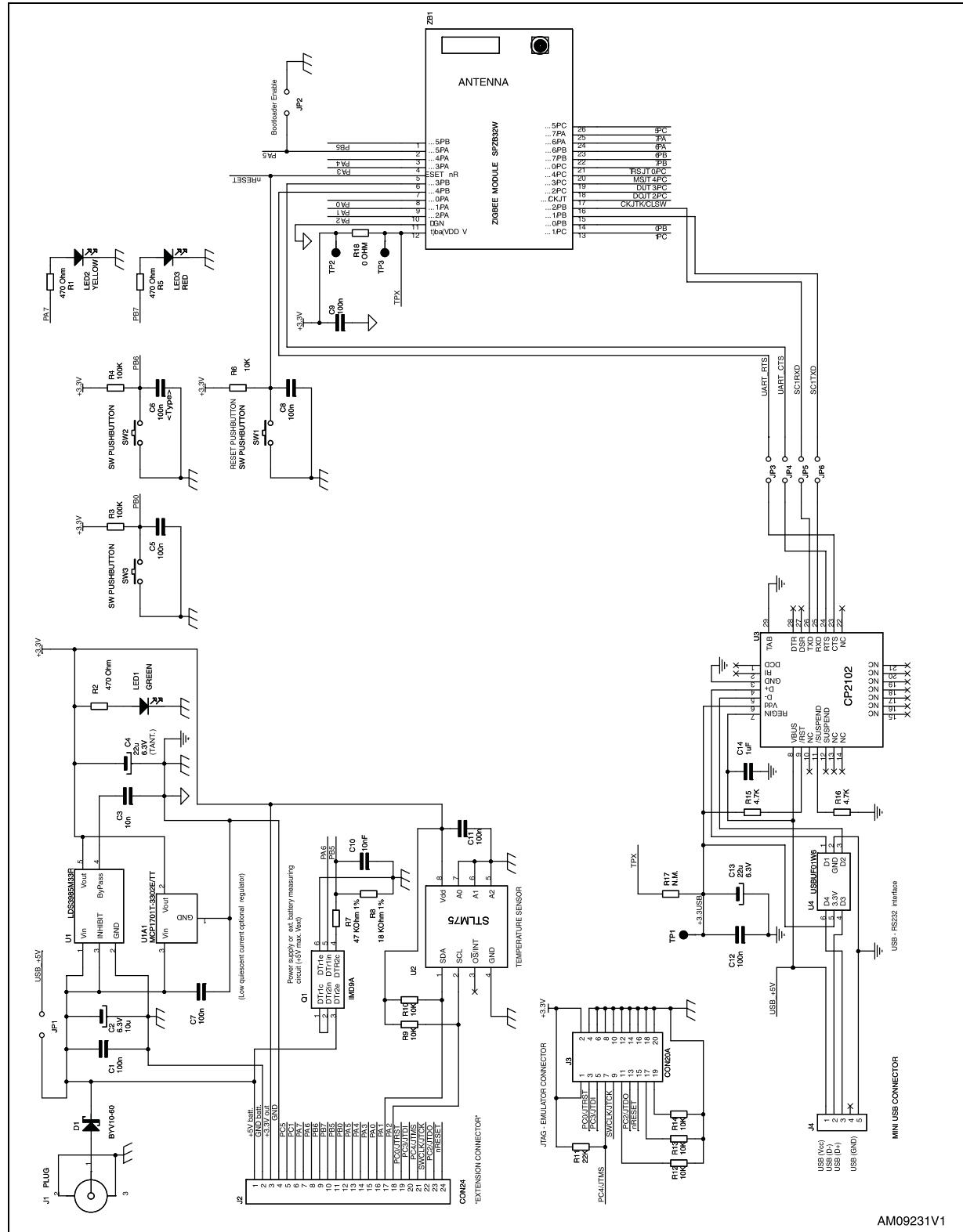
## 1.1 Block diagram

Figure 1. Steval-IDZ30xV1 HW block diagram



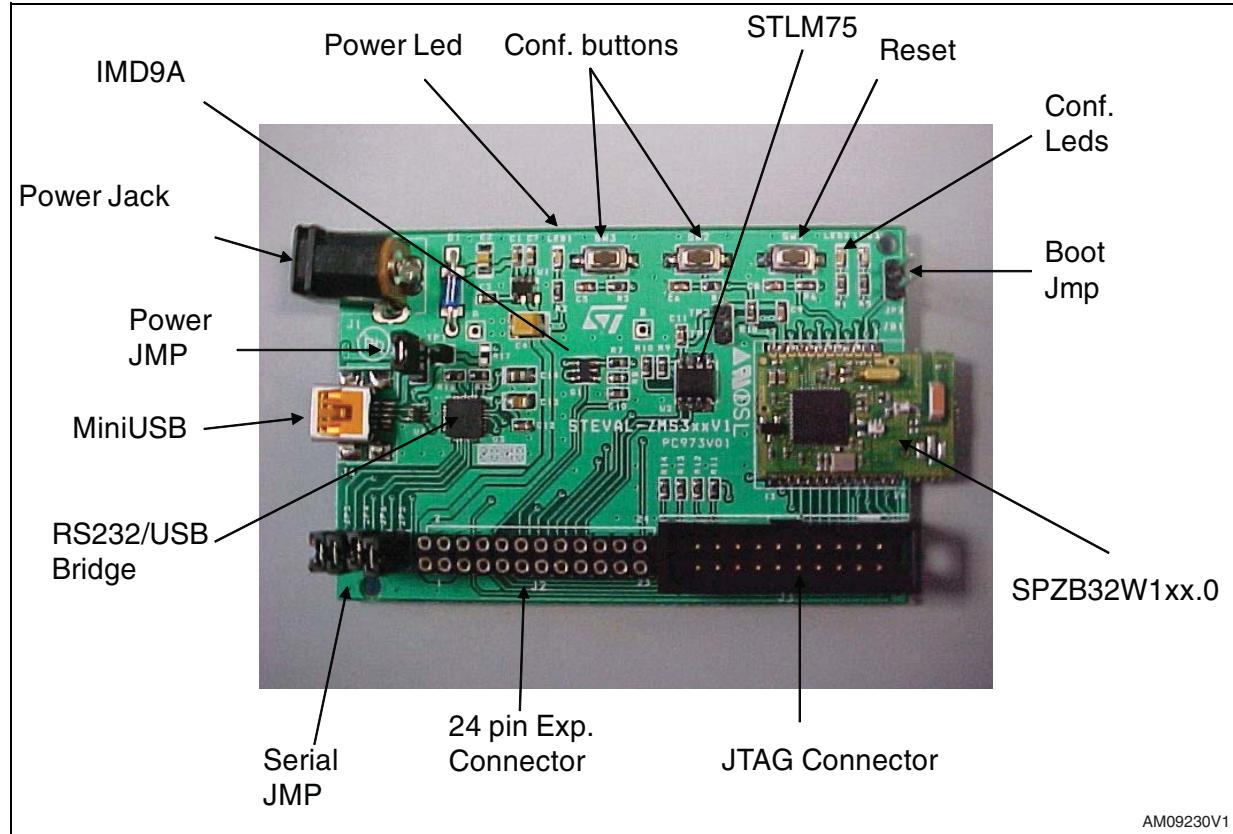
## 1.2 Schematic

**Figure 2. STEVAL-IDZ30xV1 schematic**



## 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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