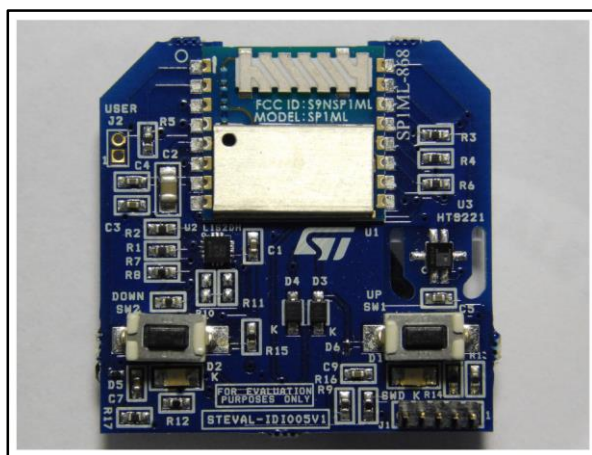# STEVAL-IDI005V1

SP1ML 868 MHz wireless sensor board powered by a coin cell battery

Data brief

Description

The STEVAL-IDI005V1 is an SP1ML-based wireless sensor board powered by a CR2032 coin-cell battery. It can communicate with the STEVAL-SP1ML868 using the P²P AT command set. The board can be programmed through an external 5-pin SWD connector.
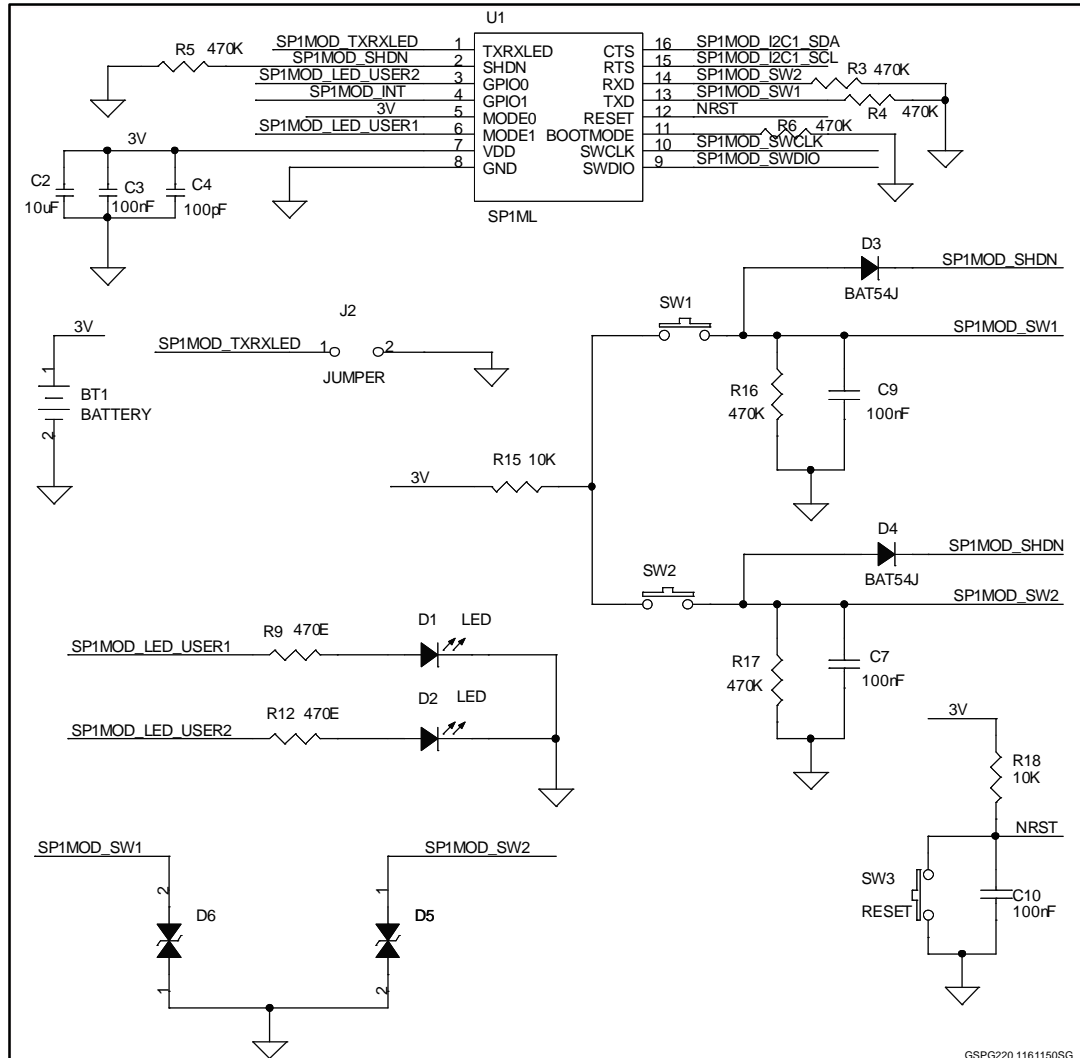
The board is designed to provide several sample, sub-GHz, Smart Home and Smart Things applications, such as heat allocator, smart remote control and wireless sensor node with 868 MHz sub-GHz connectivity.

Features

- Wireless sensor board powered by coin cell battery, CR2032
- 868 MHz sub-GHz connectivity, based on the SP1ML-868 certified module
- Sensors on board:
  - LIS2DH MEMS accelerometer
  - HTS221 humidity and temperature sensor
- ESD protection
- 2 LEDs and 2 buttons
- SWD connector for debug and reprogramming
- Sample firmware for P²P communication with the STEVAL-SP1ML868 using AT commands, to display various sensor data (motion, humidity, temperature) and board status on serial utilities like HyperTerminal
- RoHS compliant

1   Schematic diagram

Figure 1: STEVAL-IDI005V1 circuit schematic (1 of 3)

Figure 2: STEVAL-IDI005V1 circuit schematic (2 of 3)
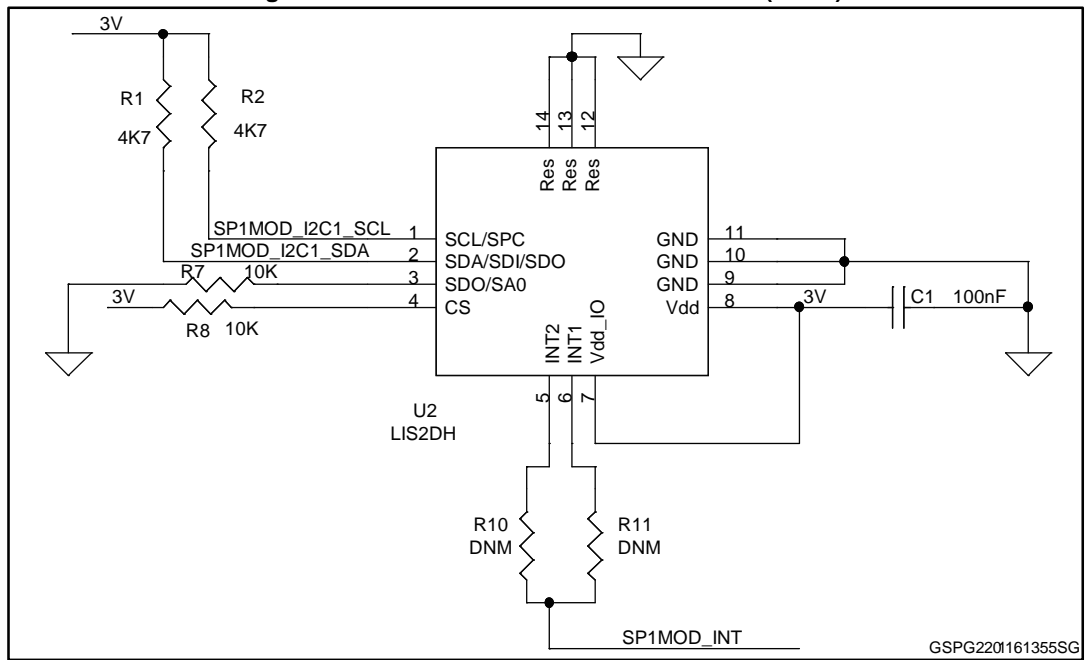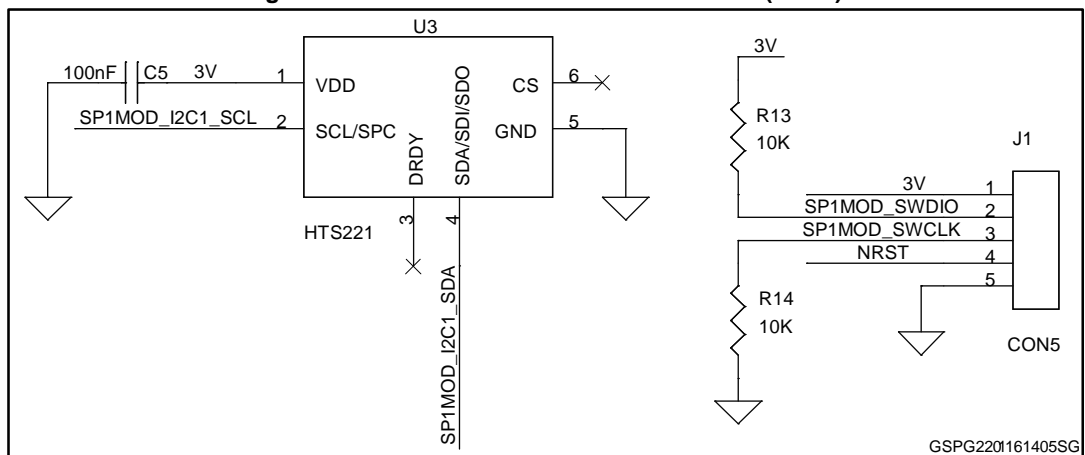

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Figure 3: STEVAL-IDI005V1 circuit schematic (3 of 3)

GSPG2201161405SG

2 Revision history

Table 1: Document revision history

Date	Version	Changes
26-Jan-2016	1	Initial release.

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