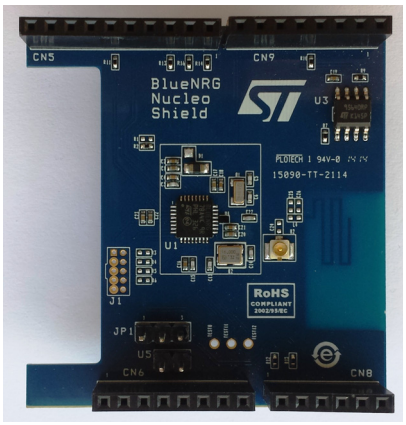
X-NUCLEO-IDB04A1

Bluetooth low energy expansion board based on BlueNRG for STM32 Nucleo

Data brief



Features

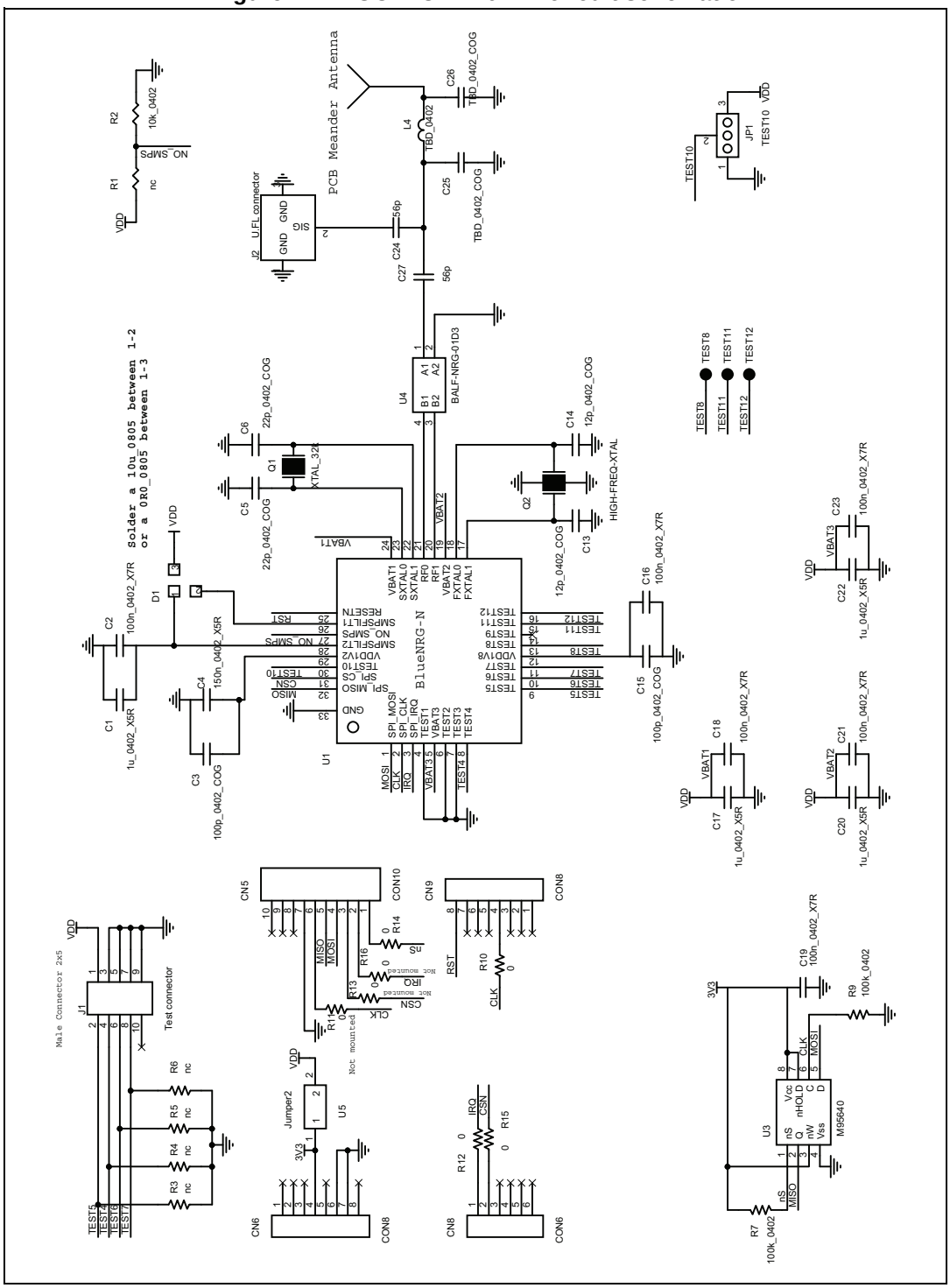
- BlueNRG low power, low energy Bluetooth network coprocessor
- Free comprehensive development firmware library and example for BlueNRG, compatible with STM32Cube firmware
- Bluetooth low energy 4.0 master and slave compliant
- Compatible with STM32 Nucleo boards
- Equipped with Arduino UNO R3 connector
- Very low power consumption: 7.3 mA RX and 8.3 mA TX at +0 dBm
- Maximum transmission power: +8 dBm
- Excellent receiver sensitivity (-88 dBm)
- RoHS compliant

Description

The X-NUCLEO-IDB04A1 is a Bluetooth low energy evaluation board to allow expansion of the STM32 Nucleo boards. It is compatible with the Arduino UNO R3 connector layout, and is designed around BlueNRG, a Bluetooth low energy, low power network coprocessor compliant with BTLE 4.0. The X-NUCLEO-IDB04A1 interfaces with the STM32 MCU via SPI pin, and the user can change the default SPI clock, the SPI chip select and SPI IRQ by changing one resistor on the evaluation board.

1 Schematic diagram

Figure 1. X-NUCLEO-IDB04A1 circuit schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
08-May-2014	1	Initial release.

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