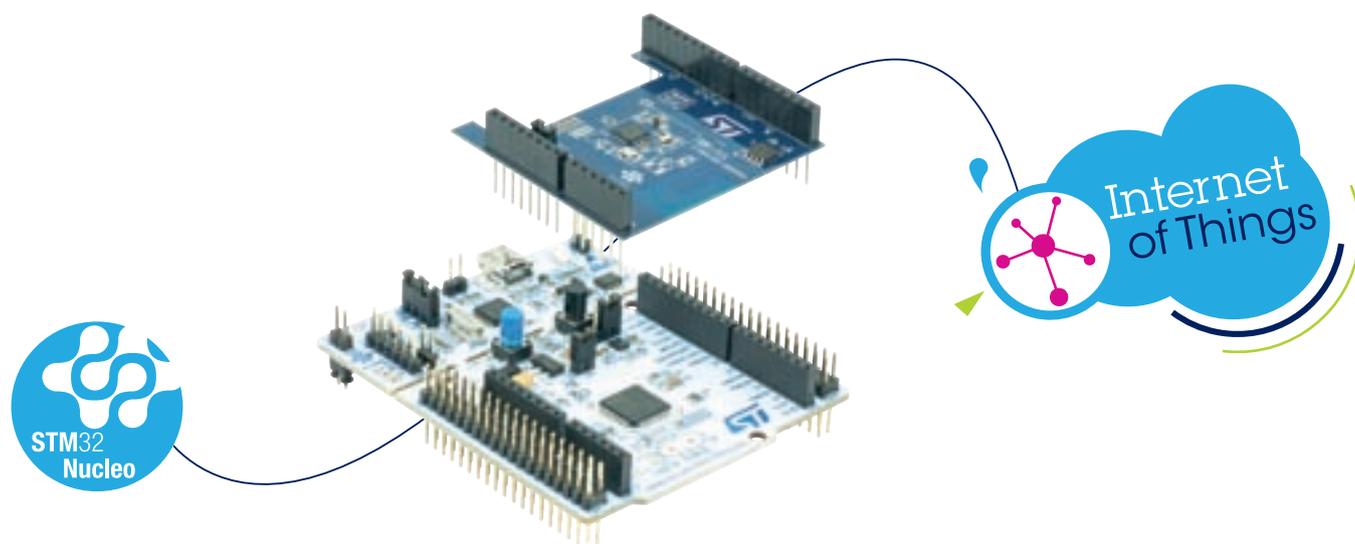


# X-NUCLEO-IDB04A1

## Bluetooth low energy expansion board based on BlueNRG



### Free comprehensive development firmware library compatible with STM32Cube firmware

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.

#### KEY FEATURES

- BlueNRG low power, low energy Bluetooth network coprocessor
- Bluetooth low energy 4.0 master and slave compliant
- Compatible with STM32 Nucleo boards
- BALF-NRG-01D3 balun & harmonic filter on board
- 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)

