BLE_API wrapper library for STMicroelectronics' B... Mbed

ST Expansion SW Team

BLE_API wrapper library for STMicroelectronics' BlueNRG Bluetooth Low Energy expansion board shield (Component)

Dependents: Nucleo_Zumo_BLE_IDB04A1 contest_IOT5 contest_IOT6 contest_IOT_10 ... more

Fork of X_NUCLEO_IDB0XA1 by

Arduino Connector Compatibility Warning

X-NUCLEO-IDB04A1 and X-NUCLEO-IDB05A1 are Arduino compatible with an exception: instead of using pin `D13` for the SPI clock, they use pin `D3`. The default configuration for this library is having the SPI clock on pin `D3`.

To be fully Arduino compatible, X-NUCLEO-IDB04A1 and X-NUCLEO-IDB05A1 need a small HW patch.

For X-NUCLEO-IDB04A1 this patch consists in removing zero resistor `R10` and instead soldering zero resistor `R11`. For X-NUCLEO-IDB05A1 this patch consists in removing zero resistor `R4` and instead soldering zero resistor `R6`.

In case you patch your board, then you also have to configure this library to use pin `D13` to drive the SPI clock (see macro `IDB0XA1_D13_PATCH` in file `x_nucleo_idb0xa1_targets.h`).

If you use pin `D13` for the SPI clock, please be aware that on STM32 Nucleo boards you may **not** drive the LED, otherwise you will get a conflict: the LED on STM32 Nucleo boards is connected to pin `D13`.

Referring to the current list of tested platforms (see X-NUCLEO-IDB04A1 and X-NUCLEO-IDB05A1 pages), the patch is required by ST-Nucleo-F103RB; ST-Nucleo-F302R8; ST-Nucleo-F411RE; and ST-Nucleo-F446RE.

Download repository: zip gz