Quick start guide

AIROC™ Bluetooth® LE module evaluation kit
CYBLE-343072-EVAL-M2B

Kit contents

1. CYW9BTM2BASE1 baseboard
2. CYBLE-343072-EVAL Bluetooth® radio card based on AIROC™ CYW20835 silicon
   (connected to the baseboard using the M.2 connector)
3. USB standard-A to Micro-B cable
4. Quick start guide (this document)

Before you start

1. Register on the Developer community and then download and install ModusToolbox™ software v 2.4 (or later) with the Bluetooth® SDK at
   https://www.infineon.com/modustoolbox.

2. Your kit has the 'Hello Sensor' application pre-programmed. Do the following to install the 'HelloClient' peer application.

   a. In Eclipse IDE for ModusToolbox™ software, select **File** > **New application**. This launches the project creator.

   b. In the project creator, click **AIROC™ Bluetooth® BSPs**.

   c. Select the 'CYBLE-343072-EVAL-M2B' kit and click **Next**.

   d. Under template applications, select **Bluetooth®** and select **LE Hello Sensor**. (refer to the screenshot on the right).

   e. Click **Create** and wait ~10 seconds for Project Creator to close.

3. Connect a USB cable between the PC and CYBLE-343072-EVAL-M2B (J6) to power the kit.
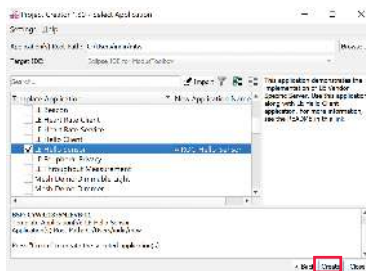
**ModusToolbox™ software**

Run the 'HelloClient' application

1. Locate the 'HelloClient' peer sample application on your PC that complements the 'HelloSensor' application at *…\mtw\mtb_shared\wiced_btsdk\tools\ btsdk-peer-apps-ble\release-v<Version#>\ hello_sensor\Windows\HelloClient\ Release\x64.*

2. Run the HelloClient executable on your PC and select the 'HelloSensor' device, which appears as a device with the name 'Hello'.

3. When prompted, allow pairing from the client to the HelloSensor device.

4. In the HelloClient window, select **Allow Notifications** next to the **Hello Input** characteristic.

5. Press button **SW3** on the evaluation kit. Observe that the **Value** field shows the Hello 1 message.

6. Press SW3 again, and then click **Read**. Observe that the **Value** field for the **Hello Configuration** characteristic is incremented.
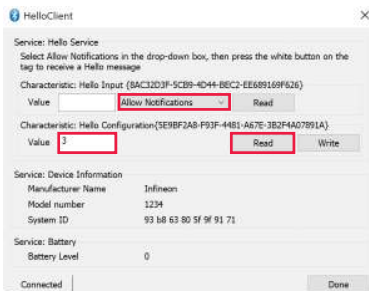
HelloClient application

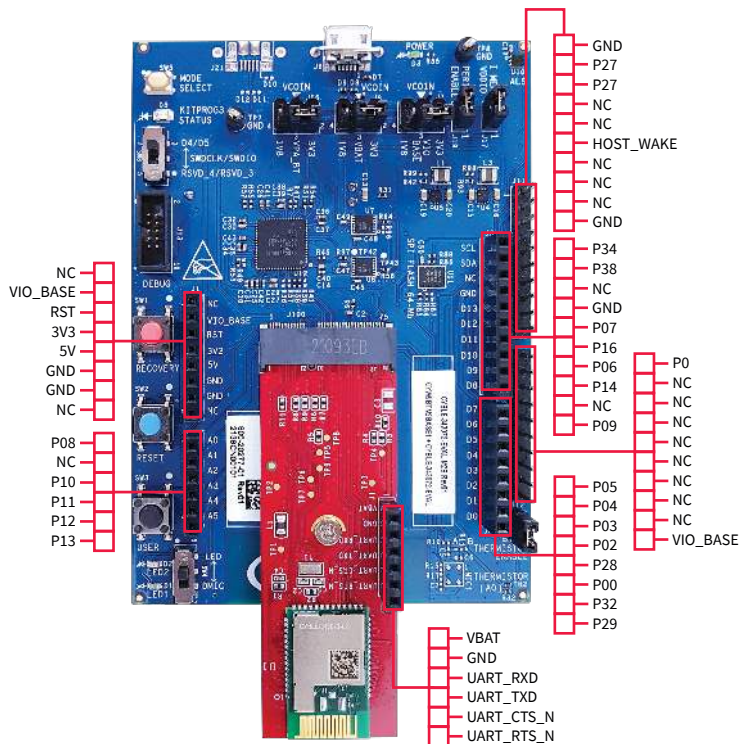## AIROC™ Bluetooth® LE module evaluation kit board details
CYBLE-343072-EVAL-M2B
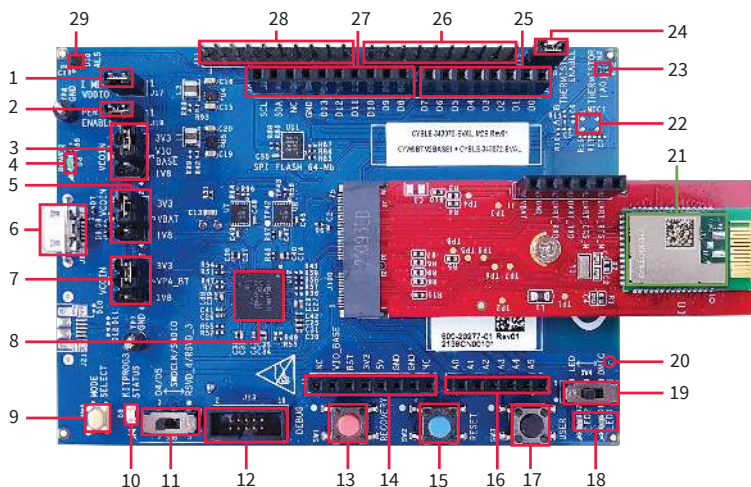
1. VDDIO current measurement jumper (J17)
2. Peripheral enable jumper (J19)
3. VDDIO select jumper (J7)
4. Baseboard power status LED (D3)
5. VBAT select jumper (J8)
6. USB connector for programming/ USB-UART (J6)
7. VPA select jumper (J16)
8. KitProg3 based on PSoC™ 5LP MCU (U12)
9. KitProg3 mode select (SW5)
10. KitProg3 status LED (D5)
11. Debug interface select jumper (SW8)
12. Debug header (J13)
13. Recovery button (SW1)
14. Header compatible with Arduino (J1)
15. Reset button (SW2)
16. Header compatible with Arduino (J2)
17. User button (SW3)
18. User LEDs (D1, D2)
19. User LED/DMIC switch (SW4)
20. Digital mic sound port (J16)
21. AIROC™ CYBLE-343072-02
22. Analog mic footprint (MIC1)
23. Thermistor (TH2)
24. Thermistor enable jumper (J18)
25. Header compatible with Arduino (J4)
26. Bluetooth® I/O header (J12)
27. Header compatible with Arduino (J3)
28. Bluetooth® I/O header (J11)
29. Ambient light sensor (U10)

AIROC™ Bluetooth® LE module evaluation kit pinout details

CYBLE-343072-EVAL-M2B

GND
P27
P27
NC
NC
HOST_WAKE
NC
NC
NC
GND

P34
P38
NC
GND
P07
P16
P06 — P0
P14 — NC
NC — NC
P09 — NC
— NC
— NC
— NC
— NC
— NC

NC
VIO_BASE
RST
3V3
5V
GND
GND
NC

P08
NC
P10
P11
P12
P13

P05
P04
P03
P02 — VIO_BASE
P28
P00
P32
P29

VBAT
GND
UART_RXD
UART_TXD
UART_CTS_N
UART_RTS_N