infineon CYBLE-343072-EVAL-M2B Airoc Bluetooth LE Module Evaluation Kit User Guide

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Contents

Kit contents

1. CYW9BTM2BASE1 baseboard
2. CYBLE-343072-EVAL Bluetooth® radio card based on AIROCTM 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)

www.cypress.com/CYBLE-343072-EVAL-M2B

Before you start

1. Register on the Developer community and then download and install ModusToolboxTM software v2.3 (or later) with the Bluetooth® SDK at https://www.cypress.com/products/modustoolbox.
2. Do the following to download and install the `HelloSensor' code example. This step will also install the `HelloClient' peer application required later.

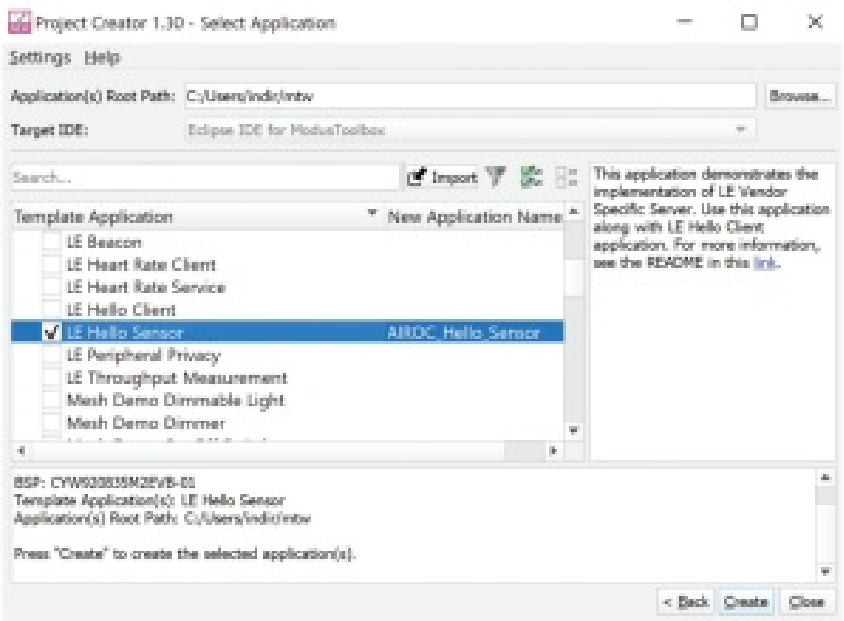
   a. In Eclipse IDE for ModusToolboxTM software, select **File > New application**. This launches the project creator.

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

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

   d. Click **Create** and then click **Close**.

   Note: The kit is pre-programmed with the `Hello Sensor' application.
3. Connect a USB cable between the PC and CYBLE-343072-EVAL-M2B (J6) to power the kit.



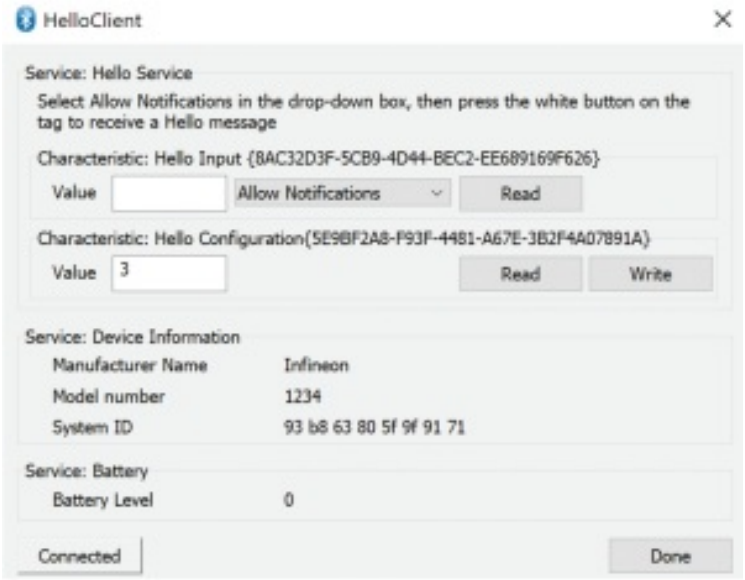
ModusToolboxTM software

Run the `HelloClient' application

1. Locate the `HelloClient' peer sample application that complements the `HelloSensor' application at

…mtw23mtb_sharedwiced_btsdk toolsbtsdk-peer-apps-blerelease-v3.1.0 hello_sensorWindowsHelloClient Releasex64.

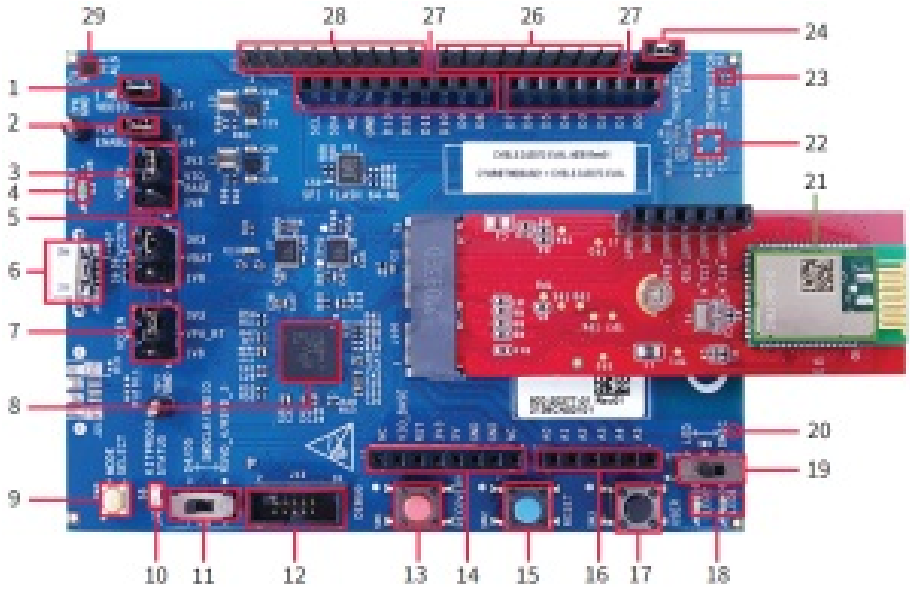
2. Run the HelloClient executable and select the `HelloSensor' device, which appears as a device with the name `Hello'.
3. When prompted, allow pairing from the client to the HelloSensor device.
4. In the HelloClient window, select **Allow Notifications** next to the **Hello Input** characteristic.
5. Press button SW3 on the evaluation kit. Observe that the Value field shows the Hello 1 message.
6. Press **SW3** again, and observe that the **Value** field is incremented.



HelloClient application

AIROCTM Bluetooth® LE module evaluation kit board details

CYBLE-343072-EVAL-M2B

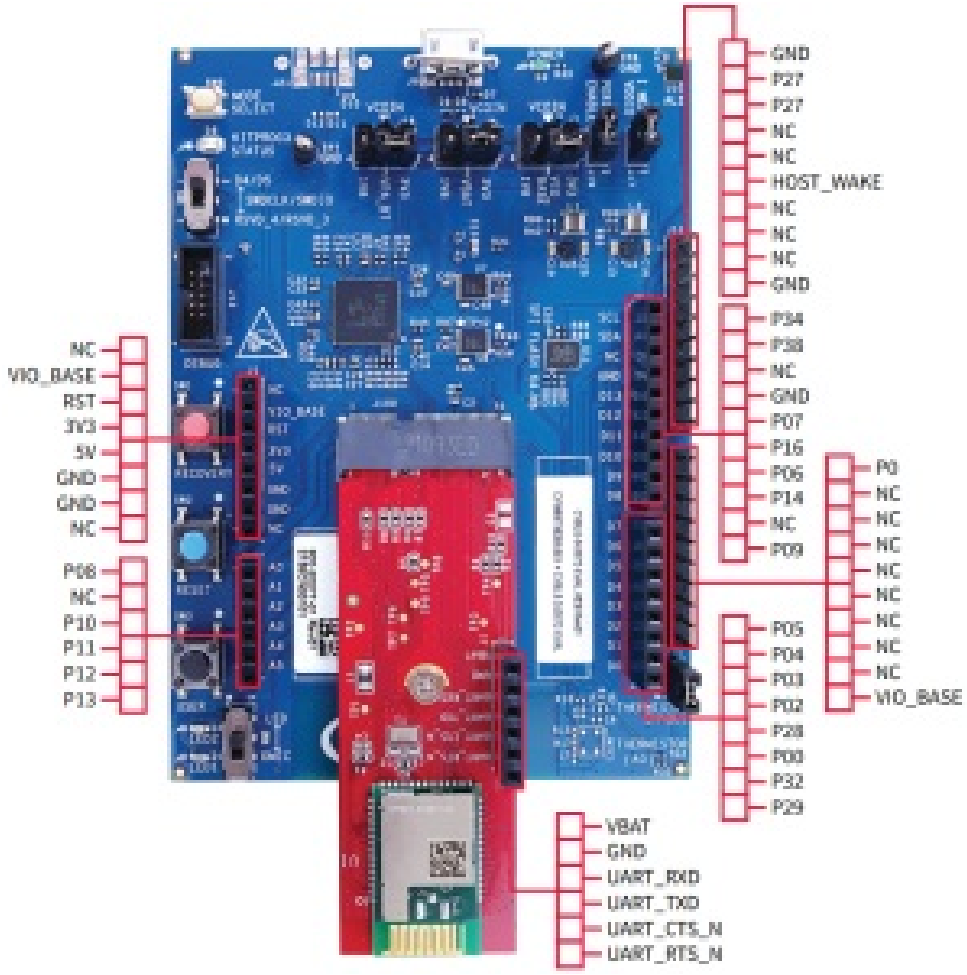


1. VDDIO current measurement jumper (J17)
2. Peripheral enable jumper (J19)
3. VDDIO select jumper (J7)

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 PSoCTM 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. AIROCTM CYBLE-343072-EVAL-M2B
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)

AIROCTM Bluetooth® LE module evaluation kit pinout details

CYBLE-343072-EVAL-M2B



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Published by Infineon Technologies AG 81726 Munich, Germany

Document Number: 002-34052 Rev. ** Date: 10 / 2021

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