

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)



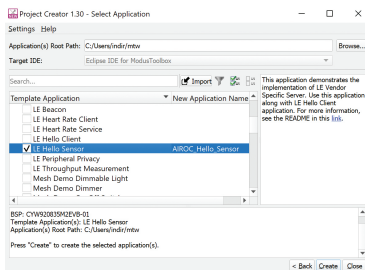
Before you start

1. Register on the Developer community and then download and install ModusToolbox™ software 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 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. Click **Create** and then click **Close**.

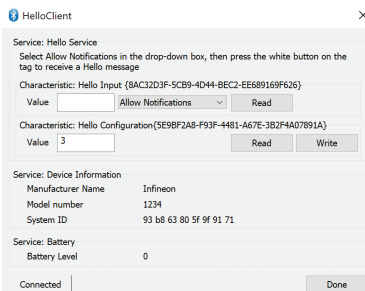
Note: The kit is pre-programmed with the ‘Hello Sensor’ application.
3. Connect a USB cable between the PC and CYBLE-343072-EVAL-M2B (J6) to power the kit.

Run the ‘HelloClient’ application

1. Locate the ‘HelloClient’ peer sample application that complements the ‘HelloSensor’ application at `...|mtw23|mtb_shared|wiced_btsdk|tools|btsdk-peer-apps-ble|release-v3.1.0|hello_sensor|Windows|HelloClient|Release|x64`.
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.



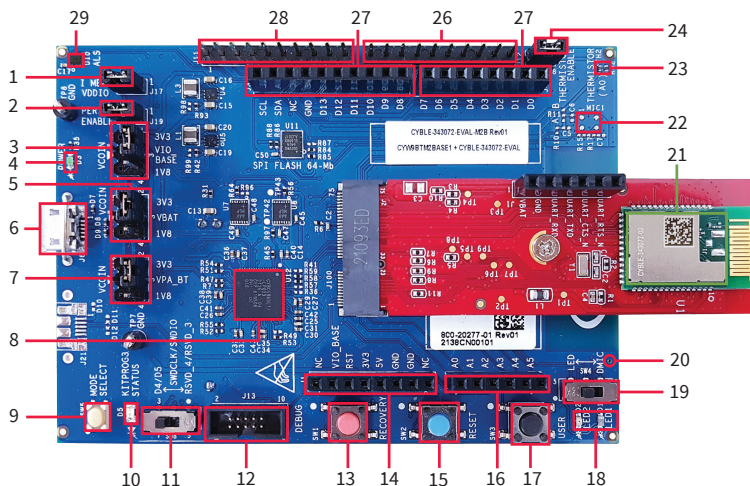
ModusToolbox™ software



HelloClient application

AIROC™ Bluetooth® LE module evaluation kit board details

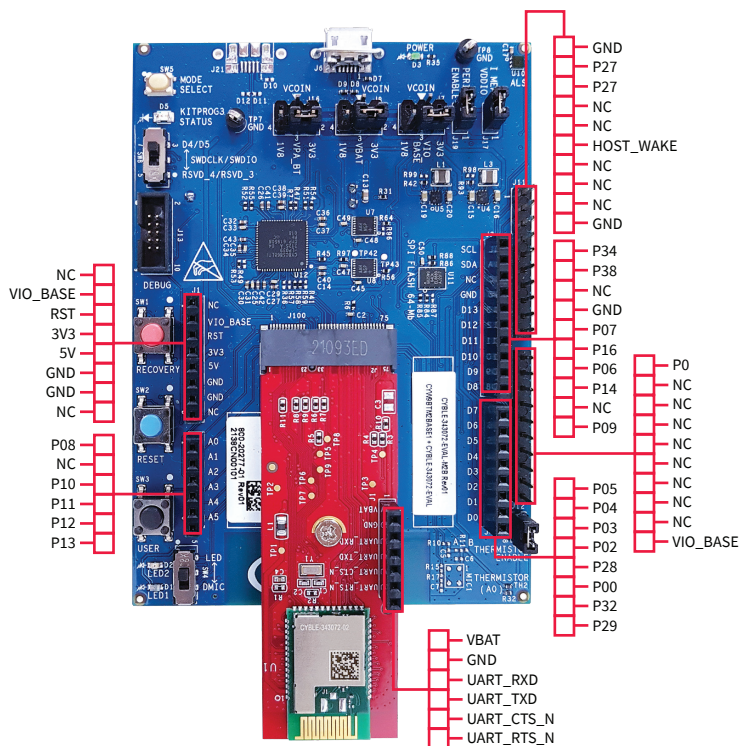
CYBLE-343072-EVAL-M2B



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

AIROC™ Bluetooth® LE module evaluation kit pinout details

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