

# Quick start guide AIROC<sup>™</sup> Bluetooth<sup>®</sup> LE module evaluation kit CYBLE-343072-EVAL-M2B



# Kit contents

- 1. CYW9BTM2BASE1 baseboard
- CYBLE-343072-EVAL Bluetooth<sup>®</sup> radio card based on AIROC<sup>™</sup> 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

 Register on the Developer community and then download and install ModusToolbox™ software v 2.4 (or later) with the Bluetooth<sup>®</sup> SDK at

https://www.infineon.com/modustoolbox.

- Your kit has the 'Hello Sensor' application pre-programmed. Do the following to install the 'HelloClient' peer application.
  - a. In Eclipse IDE for ModusToolbox<sup>™</sup> software, select File > New application. This launches the project creator.
  - b. In the project creator, click AIROC<sup>™</sup> Bluetooth<sup>®</sup> BSPs.
  - c. Select the 'CYBLE-343072-EVAL-M2B' kit and click **Next**.
  - d. Under template applications, select **Bluetooth**<sup>®</sup> and select **LE Hello Sensor**. (refer to the screenshot on the right).
  - e. Click **Create** and wait ~10 seconds for Project Creator to close.
- Connect a USB cable between the PC and CYBLE-343072-EVAL-M2B (J6) to power the kit.

# Run the 'HelloClient' application

- 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.
- 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.
- In the HelloClient window, select Allow Notifications next to the Hello Input characteristic.
- Press button SW3 on the evaluation kit. Observe that the Value field shows the Hello 1 message.
- Press SW3 again, and then click Read. Observe that the Value field for the Hello Configuration characteristic is incremented.

Settings Help						
Application(s) Root Path:	C:/Users/indir/mtw				Browse	
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BSP: CYW920835M2EVB-						
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# ModusToolbox<sup>™</sup> software

8 HelloClient	×
Service: Hello Service Select Allow Notifications in the drop-down box, then press the white button on the tag to receive a Hello message	
Characteristic: Hello Input {8AC32D3F-5CB9-4D44-BEC2-EE689169F626}	
Value Allow Notifications V Read	
Characteristic: Hello Configuration{5E9BF2A8-F93F-4481-A67E-3B2F4A07891A}	
Value 3 Read Write	
Service: Device Information	
Manufacturer Name Infineon	
Model number 1234	
System ID 93 b8 63 80 5f 9f 91 71	
Service: Battery	
Battery Level 0	
Connected Done	

# HelloClient application



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)
- USB connector for programming/ USB-UART (J6)
- 7. VPA select jumper (J16)
- KitProg3 based on PSoC<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> Bluetooth<sup>®</sup> LE module evaluation kit pinout details

CYBLE-343072-EVAL-M2B



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