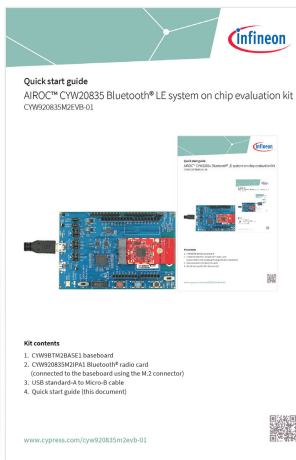
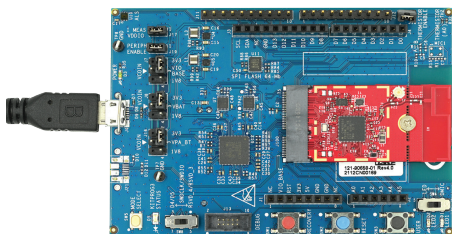


Quick start guide

AIROC™ CYW20835 Bluetooth® LE system on chip evaluation kit CYW920835M2EVb-01



Kit contents

1. CYW9BTM2BASE1 baseboard
2. CYW920835M2IPA1 Bluetooth® radio card
(connected to the baseboard using the M.2 connector)
3. USB standard-A to Micro-B cable
4. Quick start guide (this document)

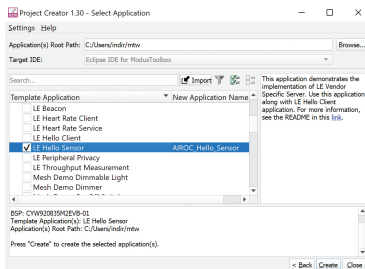


Before you start

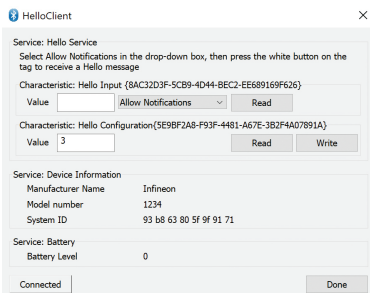
1. Register on the Developer Community and then download and install ModusToolbox™ software v2.3 (or later) with the Bluetooth® SDK at <https://www.cypress.com/products/modustoolbox>.
2. Do the following to download and install the ‘Hello Sensor’ code example. This step will also install the ‘Hello Client’ 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 ‘CYW920835M2EV01’ 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 CYW920835M2EV01 (J6) to power the kit.

Run the ‘HelloClient’ application

1. Locate the ‘HelloClient’ peer sample application that complements the ‘Hello Sensor’ 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 Hello Sensor 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.

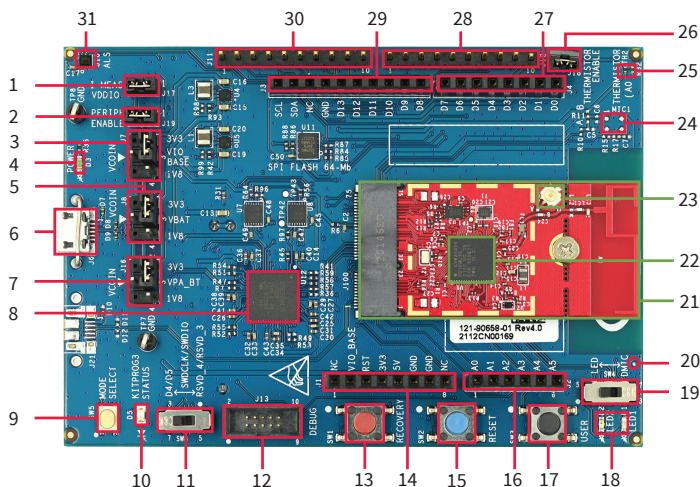


ModusToolbox™ software



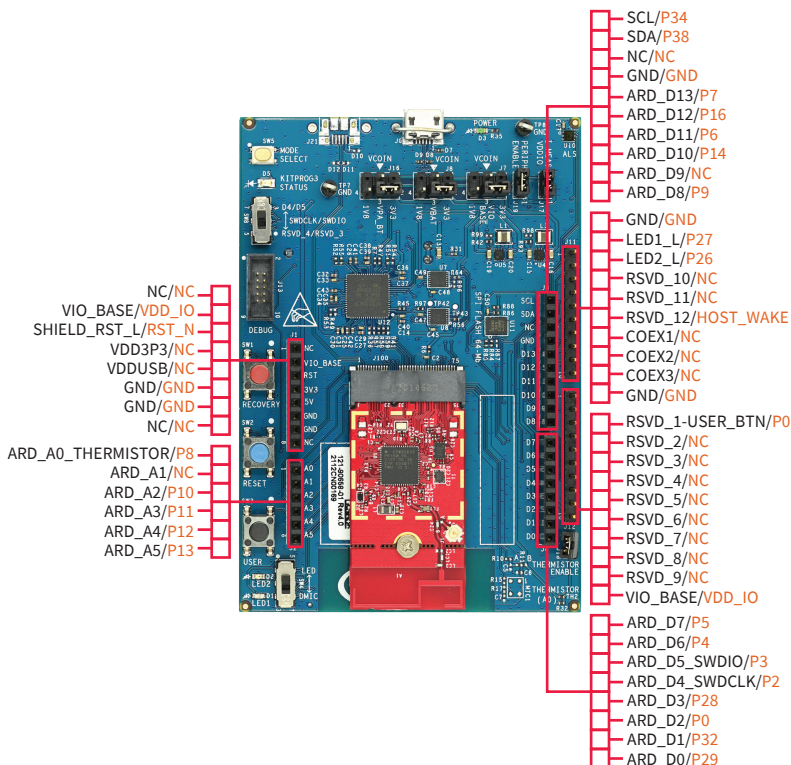
HelloClient application

AIROC™ CYW20835 evaluation kit board details



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. CYW920835M2IPA1 Bluetooth® M.2 radio card
22. AIROC™ CYW20835 Bluetooth® LE system-on-chip (CYW920835M2IPA1.U1A)
23. External antenna connector (CYW920835M2IPA1.J1)
24. Analog mic footprint (MIC1)
25. Thermistor (TH2)
26. Thermistor enable jumper (J18)
27. Header compatible with Arduino (J4)
28. Bluetooth® I/O header (J12)
29. Header compatible with Arduino (J3)
30. Bluetooth® I/O header (J11)
31. Ambient light sensor (U10)

AIROC™ CYW20835 evaluation kit board pinout details



Legend ■ Baseboard I/Os ■ CYW20835 I/Os

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