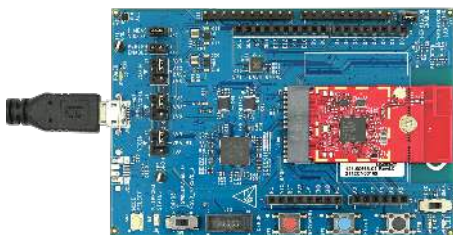


Quick start guide

AIROC™ CYW20835 Bluetooth® LE system on chip evaluation kit CYW920835M2EVB-01



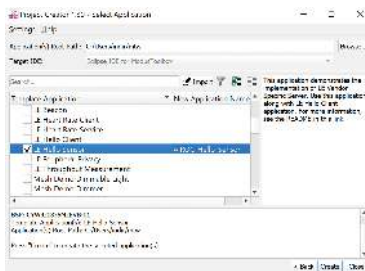
Kit contents

1. CYW920835M2EVB-01 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

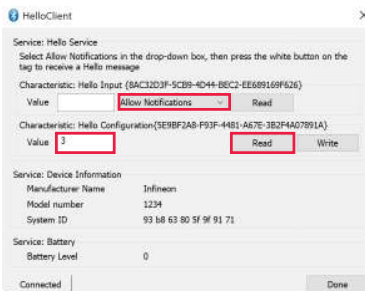
1. Register on the Developer Community and then download and install ModusToolbox™ software v2.4 (or later) with the Bluetooth® SDK at <https://www.infineon.com/modustoolbox>.
2. Your kit has the 'Hello Sensor' application pre-programmed. Do the following to install the 'HelloClient' peer application.
 - 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 'CYW920835M2EV-01' kit and click **Next**.
 - d. Under template applications, select **Bluetooth®** and select **LE Hello Sensor**.
 - e. Click **Create** and wait ~10 seconds for Project Creator to close.
3. Connect a USB cable between the PC and CYW920835M2EV-01 (J6) to power the kit.



ModusToolbox™ software

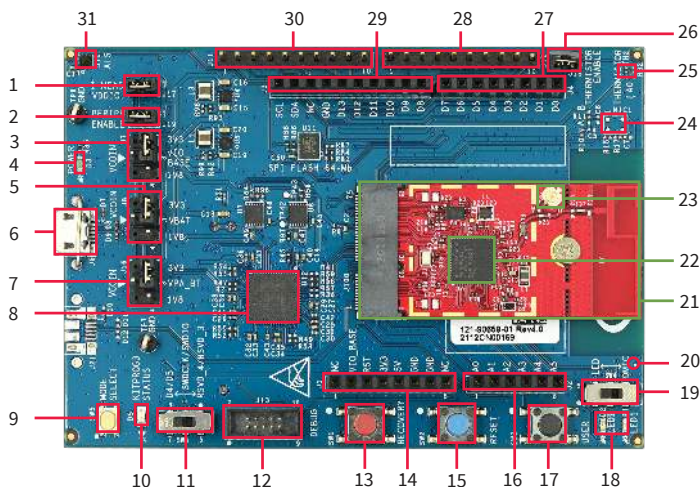
Run the 'HelloClient' application

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 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 then click **Read**. Observe that the **Value** field for the **Hello Configuration** characteristic is incremented.



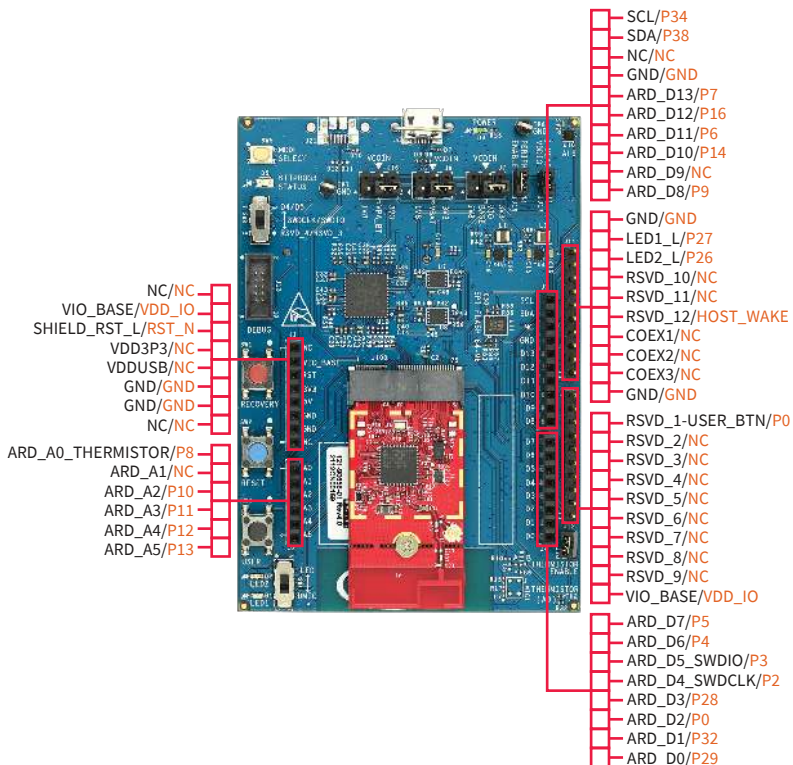
HelloClient application

AIROC™ CYW20835 evaluation kit board details



- | | |
|--|--|
| 1. VDDIO current measurement jumper (J17) | 17. User button (SW3) |
| 2. Peripheral enable jumper (J19) | 18. User LEDs (D1, D2) |
| 3. VDDIO select jumper (J7) | 19. User LED/DMIC switch (SW4) |
| 4. Baseboard power status LED (D3) | 20. Digital mic sound port (J16) |
| 5. VBAT select jumper (J8) | 21. CYW920835M2IPA1 Bluetooth® M.2 radio card |
| 6. USB connector for programming/USB-UART (J6) | 22. AIROC™ CYW20835 Bluetooth® LE system-on-chip (CYW920835M2IPA1.U1A) |
| 7. VPA select jumper (J16) | 23. External antenna connector (CYW920835M2IPA1.J1) |
| 8. KitProg3 based on PSoC™ 5LP MCU (U12) | 24. Analog mic footprint (MIC1) |
| 9. KitProg3 mode select (SW5) | 25. Thermistor (TH2) |
| 10. KitProg3 status LED (D5) | 26. Thermistor enable jumper (J18) |
| 11. Debug interface select jumper (SW8) | 27. Header compatible with Arduino (J4) |
| 12. Debug header (J13) | 28. Bluetooth® I/O header (J12) |
| 13. Recovery button (SW1) | 29. Header compatible with Arduino (J3) |
| 14. Header compatible with Arduino (J1) | 30. Bluetooth® I/O header (J11) |
| 15. Reset button (SW2) | 31. Ambient light sensor (U10) |
| 16. Header compatible with Arduino (J2) | |

AIROC™ CYW20835 evaluation kit board pinout details



www.infineon.com

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Infineon Technologies AG
81726 Munich, Germany

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