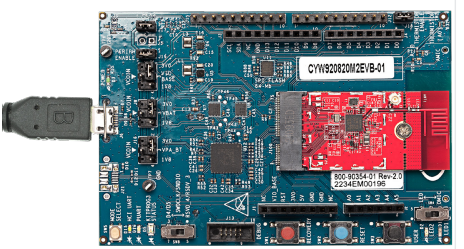
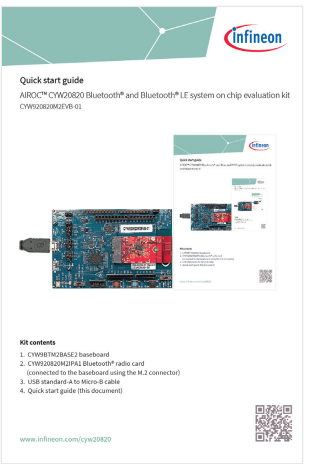
Quick start guide

AIROC™ CYW20820 Bluetooth® and Bluetooth® LE system on chip evaluation kit

CYW920820M2EVB-01





Kit contents

1. CYW9BTM2BASE2 baseboard
2. CYW920820M2IPA1 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. Download and install ModusToolbox™ software v2.4 (or later) with the Bluetooth® SDK at https://www.infineon.com/modustoolbox.
2. Scan the QR code to download and install the LightBlue App.
3. Connect a USB cable between the PC and CYW920820M2EVB-01 (J6) to power the kit.

Download the LightBlue app

Android

iOS

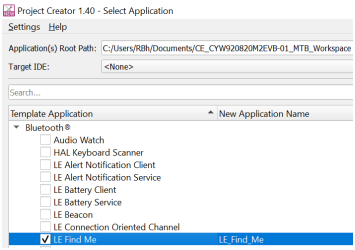
Download the code example

1. In Eclipse IDE for ModusToolbox™, select **File > New > ModusToolbox™ application**. This launches the Project Creator.
2. In the Project Creator, click **AIROC™ Bluetooth® BSPs**.
3. Select the 'CYW920820M2EVB-01' kit and click **Next**.
4. Select the 'LE Find Me' code example, and then click **Create**.

   Note: The kit is pre-programmed with the 'LE Find Me' code example so you do not need to program the kit to try it.

   For more information, see the ModusToolbox™software user guide at https://www.infineon.com/modustoolbox.

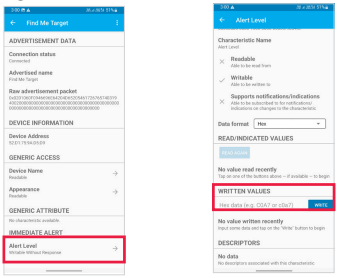
Selecting the code example in Eclipse IDE for ModusToolbox™



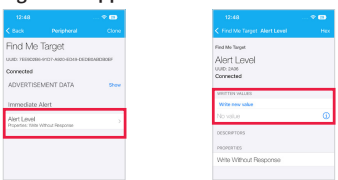
Run the LightBlue mobile application

1. Turn ON Bluetooth® on your Android or iOS device.
2. Launch the LightBlue mobile app.
3. Press the reset switch on the board to start sending advertisements.
4. Swipe down on the LightBlue app home screen to start scanning for LE Peripheral devices.
5. Your device ("Find me Target") appears on the home screen. Tap Connect to establish a Bluetooth® LE connection with the device.
6. Observe the changes in the yellow LED (LED1) before and after establishing the connection.
7. Select the 'Alert Level' service and provide the alert value '0' for No Alert, '1' for Mid Alert, and any other value for High Alert.
8. Observe that the state of the red LED (LED2) changes based on the alert level.

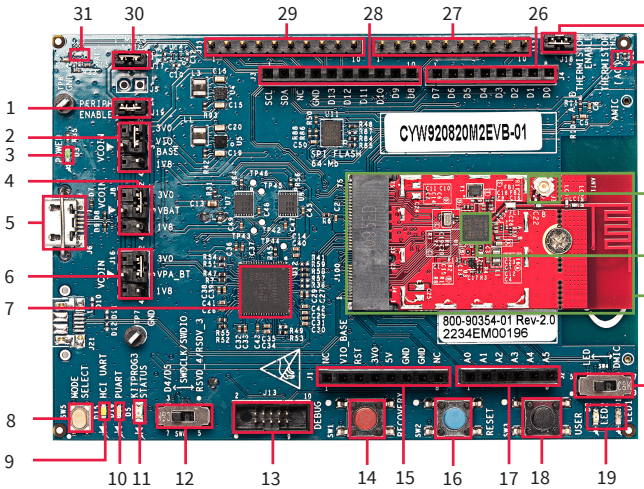
LightBlue app on Android



LightBlue app on iOS

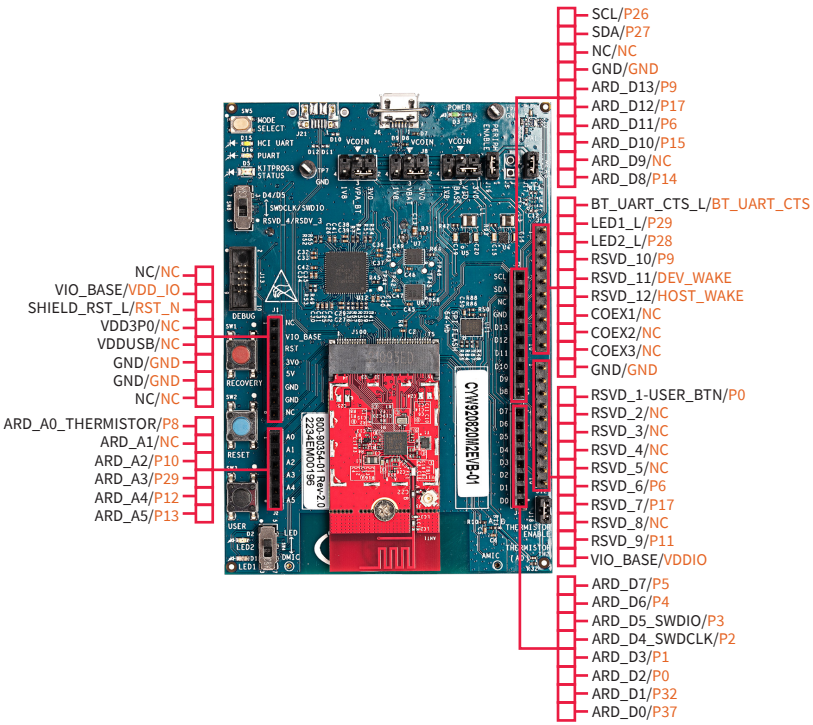


AIROC™ CYW920820M2EVB-01 evaluation kit details



1. Peripheral enable jumper (J19)
2. VDDIO select jumper (J7)
3. Baseboard power status LED (D3)
4. VBAT select jumper (J8)
5. USB connector for programming/ USB-UART (J6)
6. VPA select jumper (J16)
7. KitProg3 based on PSoC™ 5LP MCU (U12)
8. KitProg3 mode select (SW5)
9. HCI UART status LED (D15)
10. PUART status LED (D16)
11. KitProg3 status LED (D5)
12. Debug interface select jumper (SW8)
13. Debug header (J13)
14. Recovery button (SW1)
15. Header compatible with Arduino (J1)
16. Reset button (SW2)
17. Header compatible with Arduino (J2)
18. User button (SW3)
19. User LEDs (LED1, LED2)
20. User LED/DMIC switch (SW4)
21. CYW920820M2IPA1 Bluetooth® M.2 radio card
22. AIROC™ CYW20820 Bluetooth® and Bluetooth® LE system on chip (CYW920820M2IPA1.U1A)
23. External antenna connector (CYW920820M2IPA1.J1)
24. Thermistor (TH2)
25. Thermistor enable jumper (J18)
26. Header compatible with Arduino (J4)
27. Bluetooth® I/O header (J12)
28. Header compatible with Arduino (J3)
29. Bluetooth® I/O header (J11)
30. VDDIO current measurement jumper (J17)
31. Ambient light sensor (U10)

AIROC™ CYW920820M2EVB-01 evaluation kit pinout details



Legend ■ Baseboard I/Os ■ CYW20820 I/Os

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