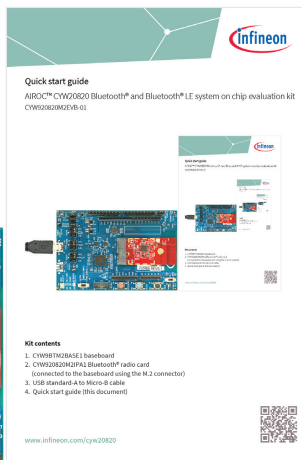
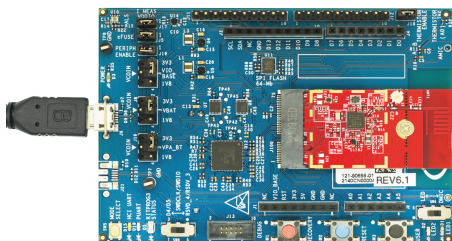


## Quick start guide

AIROC™ CYW20820 Bluetooth® and Bluetooth® LE system on chip evaluation kit  
CYW920820M2EVB-01



### Kit contents

1. CYW9BTM2BASE1 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 'CySmart' mobile app.
3. Connect a USB cable between the PC and CYW920820M2EVb-01 (J6) to power the kit.

## 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**.

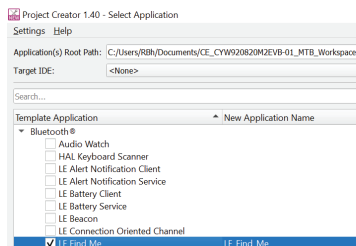
**Note:** The kit is pre-programmed with the 'LE Find Me' code example so you do not need to program the kit to try it.

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

## Download the CySmart app



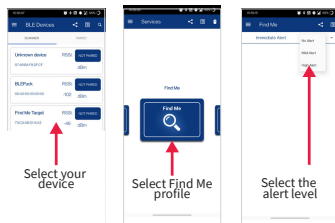
## Selecting the code example in Eclipse IDE for ModusToolbox™



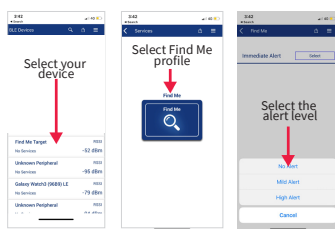
## Run the 'CySmart' mobile application

1. Turn ON Bluetooth® on your Android or iOS device.
2. Launch the CySmart mobile app.
3. Press the reset switch on the CYW920820M2EVb-01 board to start sending advertisements.
4. Swipe down on the CySmart app home screen to start scanning for LE Peripheral devices.
5. Your device ("Find Me Target") appears on the home screen. Select your device to establish a Bluetooth® LE connection.
6. Observe the changes in the yellow LED (LED1) before and after establishing the connection.
7. Select the 'Find Me' Profile.
8. Select the alert value from the Find Me profile screen.
9. Observe that the state of the red LED (LED2) changes based on the alert level.

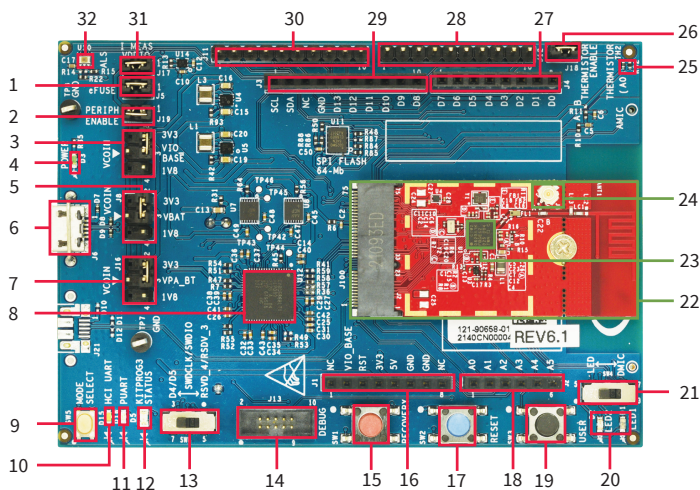
## CySmart app on Android



## CySmart app on iOS

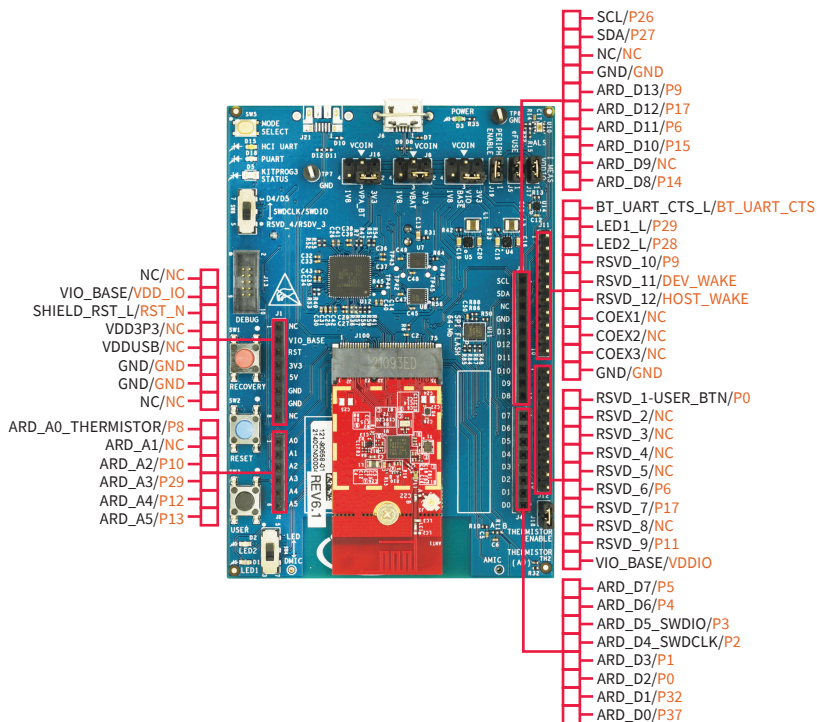


## AIROC™ CYW920820M2EVB-01 evaluation kit details



1. eFuse jumper (J5)  
(Not applicable for CYW20820)
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. HCI UART status LED (D15)
11. PUART status LED (D16)
12. KitProg3 status LED (D5)
13. Debug interface select jumper (SW8)
14. Debug header (J13)
15. Recovery button (SW1)
16. Header compatible with Arduino (J1)
17. Reset button (SW2)
18. Header compatible with Arduino (J2)
19. User button (SW3)
20. User LEDs (LED1, LED2)
21. User LED/DMIC switch (SW4)
22. CYW920820M2IPA1 Bluetooth®  
M.2 radio card
23. AIROC™ CYW20820 Bluetooth® and  
Bluetooth® LE system on chip  
(CYW920820M2IPA1.U1A)
24. External antenna connector  
(CYW920820M2IPA1.J1)
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. VDDIO current measurement jumper (J17)
32. Ambient light sensor (U10)

## AIROC™ CYW920820M2EVB-01 evaluation kit pinout details



Legend ■ Baseboard I/Os ■ CYW20820 I/Os

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