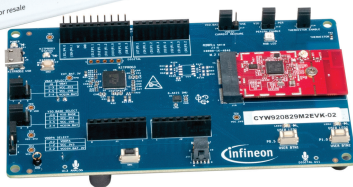


Quick start guide

AIROC™ CYW20829 Bluetooth® LE SoC Evaluation Kit CYW920829M2EVK-02



Kit contents

1. CYW20829 Evaluation Board (CYW9BTM2BASE3+CYW920829M2IPA2)
2. USB Type-A to Micro-B cable
3. Six jumper wires (five inches each)
4. Quick start guide (this document)



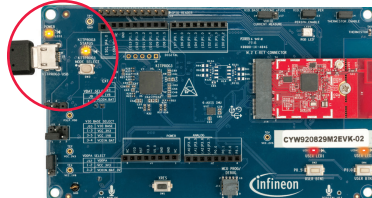
Before you start

1. Ensure that you have the following:
 - PC with USB 2.0 port
 - UART terminal software such as Tera Term or Minicom
 - Download and install the AIROC™ Bluetooth® Connect app from Play Store or iOS App Store.
2. Visit the [kit website](#) to download and install the required software.
3. Ensure the following jumper settings to select 3.3 V:

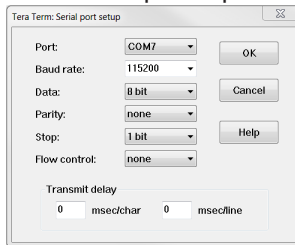
Jumper	Position
J9	1 – 3
J10	1 – 3
J12	1 – 2

4. Connect the KitProg3 USB connector (J5) to your PC.
5. Wait for the driver installation to complete.
6. Open the UART terminal software and set the USB-UART COM port terminal setting by referring to COM port setup image.

USB cable connected to the KitProg3 USB connector



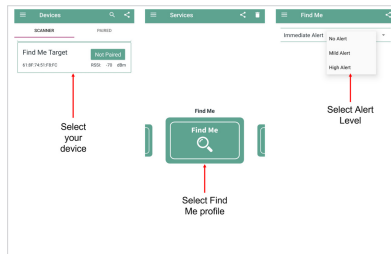
USB-UART COM port setup



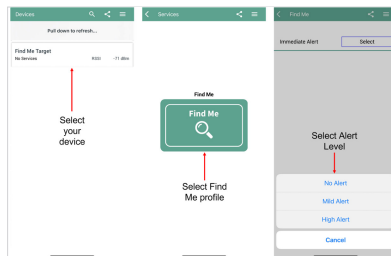
Run the AIROC™ Bluetooth® Connect application

1. Turn ON Bluetooth® on your Android or iOS device.
2. Launch the AIROC™ Bluetooth® Connect app.
3. Press the reset switch on the CYW920829M2EVK-02 board to start sending advertisements and observe the “Advertisement started” message on the serial terminal and confirm USER LED2 blinking.
4. Swipe down on the AIROC™ Bluetooth® Connect 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. The USER LED2 changes from blinking state to always ON state after establishing a successful connection with the device.
7. Select ‘Find Me Profile’ and select an Alert level. The USER LED1 state is linked to the type of alert sent.
 - No alert: USER LED1 OFF
 - Mild alert: USER LED1 blinking
 - High alert: USER LED1 ON

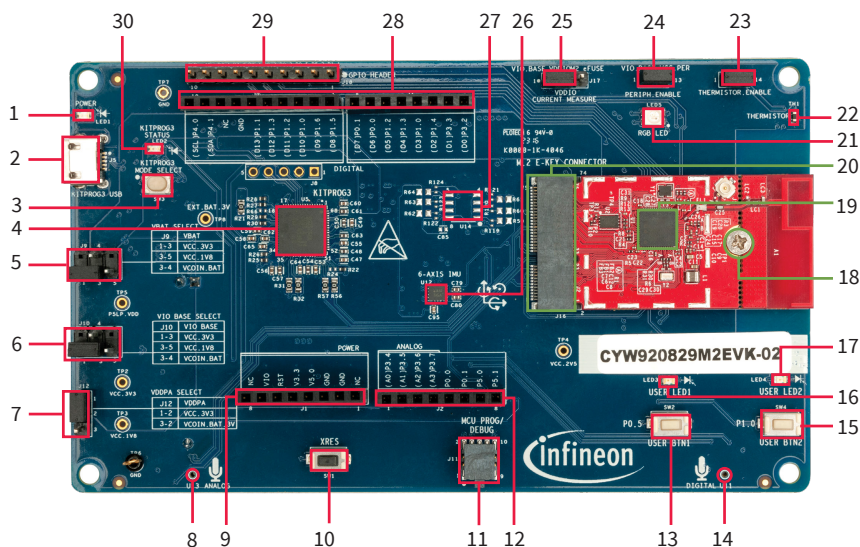
AIROC™ Bluetooth® Connect app – Android



AIROC™ Bluetooth® Connect app – iOS



AIROC™ CYW20829 Evaluation Board details

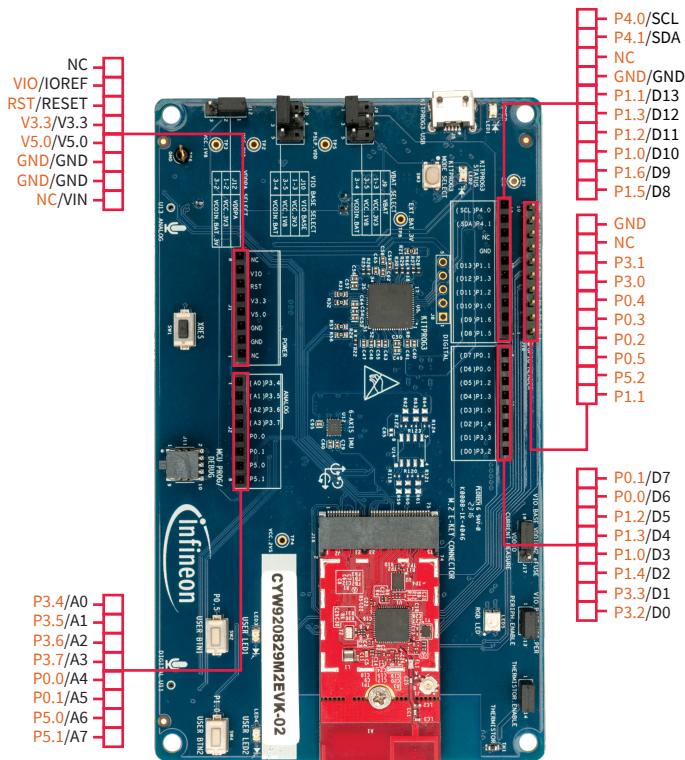


1. Power LED (LED1)
2. KitProg3 USB Micro-B connector (J5)
3. KitProg3 programming mode selection button (SW3)
4. KitProg3 (PSoC™ 5LP) programmer and debugger (CY8C5868LTI - LP039, U5)
5. VBAT voltage selection jumper (J9)
6. VIO_BASE voltage selection jumper (J10)
7. VDDPA voltage selection jumper (J12)
8. Analog mic (U13)**
9. Power header compatible with Arduino Uno R3 (J1)
10. Reset button (SW1)
11. 10-pin MCU PROG/DEBUG header (J11)
12. Analog header compatible with Arduino (J2)
13. User Button 1 (SW2)
14. Digital mic (U11)**
15. User Button 2 (SW4)
16. User LED 1 (LED3)
17. User LED 2 (LED4)
18. M.2 stand-off (MT1)
19. AIROC™ CYW20829 Bluetooth® and Bluetooth® LE system on chip
20. M.2 E-key interface connector (J16)
21. RGB LED (LED5)
22. Thermistor (TH1)
23. Thermistor enable header (J14)
24. Peripheral enable header (J13)
25. VDDIO current measurement header (J17)
26. Six-axis IMU (U12)
27. QSPI flash memory (U14)*
28. Digital I/O headers compatible with Arduino Uno R3 (J3, J4)
29. Extended GPIO header (J18)
30. KitProg3 status LED (LED2)

*Footprint only, not populated on the board

**Component is located at the bottom side of the board

AIROC™ CYW20829 Evaluation Board pinout details



Legend ■ I/Os compatible with Arduino Uno R3

■ CYW20829 I/Os

See the kit guide available at www.infineon.com/CYW920829M2EVK-02 for details.

www.infineon.com

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