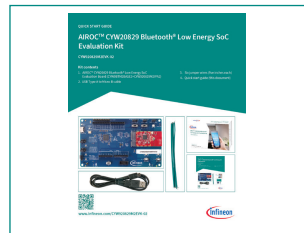
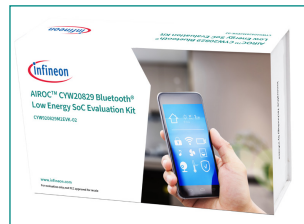
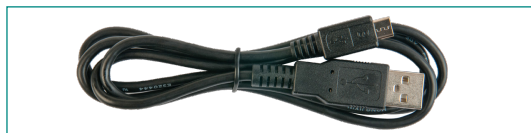
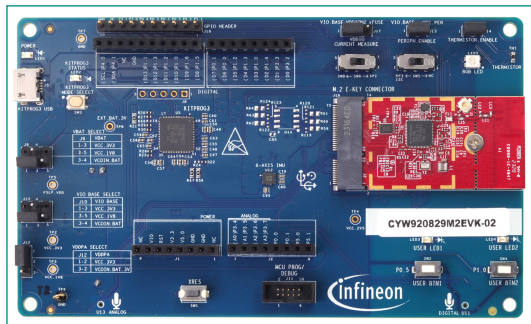


AIROC™ CYW20829 Bluetooth® Low Energy SoC Evaluation Kit

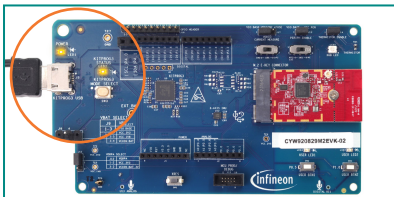
Kit contents

1. AIROC™ CYW20829 Bluetooth® Low Energy SoC 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)



www.infineon.com/CYW920829M2EVK-02





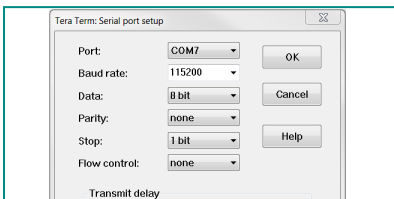
1 USB cable connected to the KitProg3 USB connector

Before you start

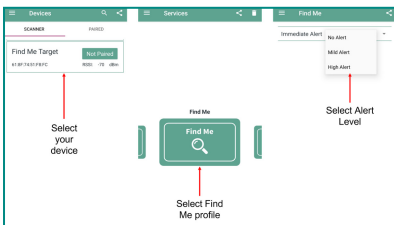
1. Ensure that you have the following:
 - PC with USB 2.0 port
 - UART terminal software such as Tera Term or Minicom
 - Download and install the AIROC™ Bluetooth® Connect app from Play Store or iOS App Store.
2. Connect the KitProg3 USB connector (J5) to your PC.
3. Visit the [kit webpage](#) to download and install the required software.
4. Ensure the following jumper settings to select 3.3 V. and other jumpers as default state.

Jumper	Position
J9	1 - 3
J10	1 - 3
J12	1 - 2
J13	1 - 2
J14	1 - 2
J17	1 - 2

5. Once the driver installation is complete, open the UART terminal software and set the COM port parameters to 8N1 and 115200 baud.



2 USB-UART COM port setup

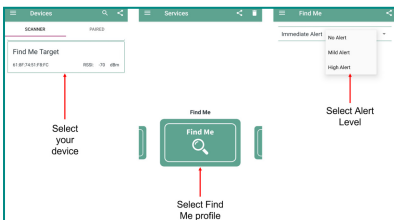


3 AIROC™ Bluetooth® Connect app – Android

Run the AIROC™ Bluetooth® Connect application

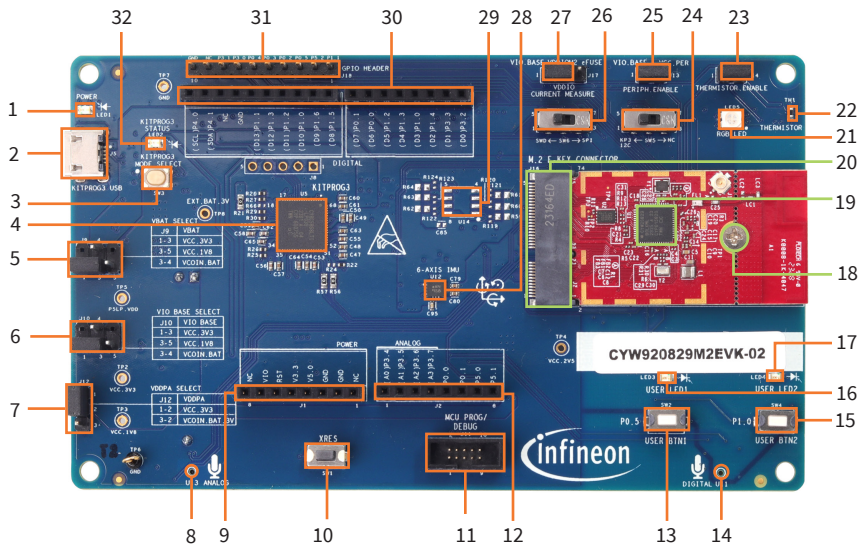
1. Turn ON Bluetooth® on your Android or iOS device.
2. Launch the AIROC™ Bluetooth® Connect app.
3. Press the reset button (SW1) on the CYW920829M2EVK-02 board to send advertisements and when the “Advertisement started” message on the serial terminal is displayed, confirm that USER LED2 is blinking.
4. Swipe down on the AIROC™ Bluetooth® Connect app home screen to scan for Bluetooth® Low Energy peripheral devices.
5. Your device (“Find Me Target”) appears on the home screen. Tap 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



4 AIROC™ Bluetooth® Connect app – iOS

AIROC™ CYW20829 Bluetooth® Low Energy SoC Evaluation Board details

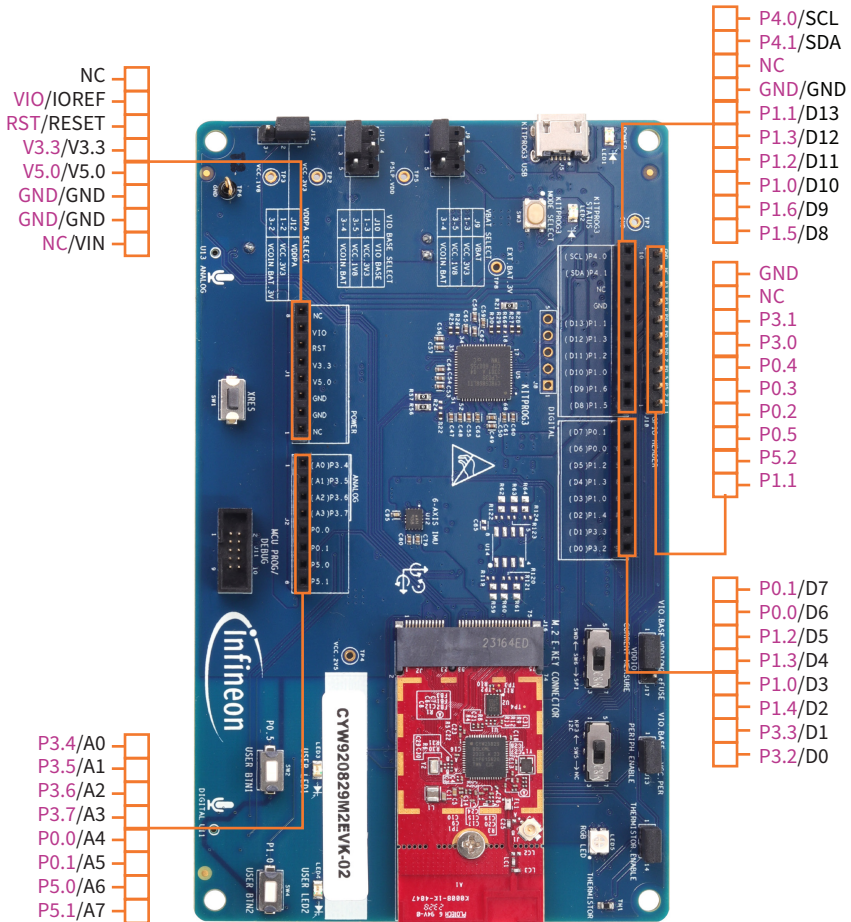


1. Power LED (LED1)
2. KitProg3 USB Micro-B connector (J5)
3. KitProg3 programming mode selection button (SW3)
4. KitProg3 (PSoc™ 5LP) programmer and debugger (CY8C5868LTI - LP039, U5)
5. VBAT voltage selection jumper (J9)
6. VIO_BASE voltage selection jumper (J10)
7. VDDPA voltage selection jumper (J12)
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. KP3 to I2C Bus connect/NC Selection SW (SW5)
25. Peripheral enable header (J13)
26. SWD/SPI Selection SW (SW6)
27. VDDIO current measurement header (J17)
28. Six-axis IMU (U12)
29. QSPI flash memory (U14)*
30. Digital I/O headers compatible with Arduino Uno R3 (J3, J4)
31. Extended GPIO header (J18)
32. KitProg3 status LED (LED2)

*Footprint only, not populated on the board

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

AIROC™ CYW20829 Bluetooth® Low Energy SoC Evaluation Board pinout



Legend ■ I/Os compatible with Arduino Uno R3

■ CYW20829 I/Os

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