

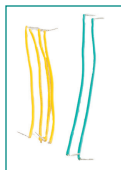
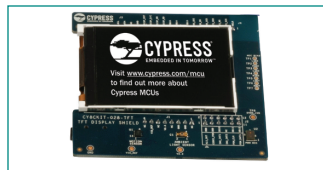
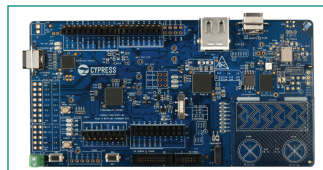
QUICK START GUIDE

PSoC™ 6 Wi-Fi Bluetooth® Pioneer Kit

CY8CKIT-062-WIFI-BT

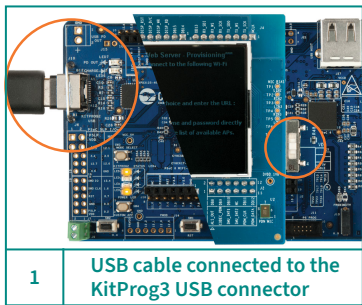
Kit contents:

1. PSoC™ 6 Wi-Fi Bluetooth® pioneer board
2. CY8CKIT-028-TFT display shield
3. USB Type-A to Type-C cable
4. Four jumper wires (four inches each)
5. Two proximity sensor wires (five inches each)
6. Quick start guide (this document)



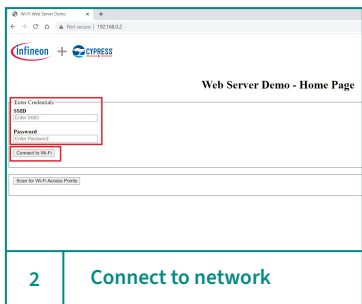
www.infineon.com/CY8CKIT-062-WIFI-BT





Before you start

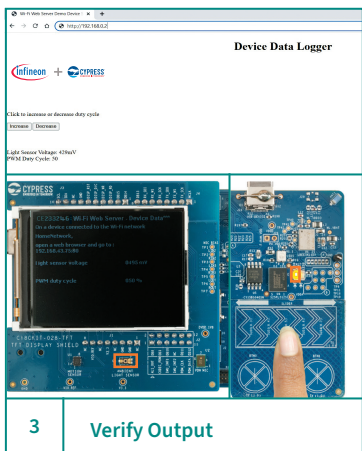
1. Set SW5 (located in the middle of the CY8CKIT-062-WIFI-BT board) to the 3.3 V position.
2. Power the board by connecting it to your PC using the provided USB cable through the USB-C connector (J10).
3. The TFT screen displays the instructions to evaluate the pre-programmed code. For example, CE233246 – WiFi Web Server.



Connect to network

1. The kit with the pre-programmed code example creates a Wi-Fi network called "SOFTAP_SSID".
2. Connect to the Wi-Fi network using your PC/mobile device. The password is "SOFTAP_PWD".
3. Open a web browser on your PC/mobile and go to <http://192.168.0.2:80>
4. In the Web Server Demo – Home Page enter the credentials of the non-enterprise network on another device or a mobile hotspot and click **Connect to Wi-Fi**.

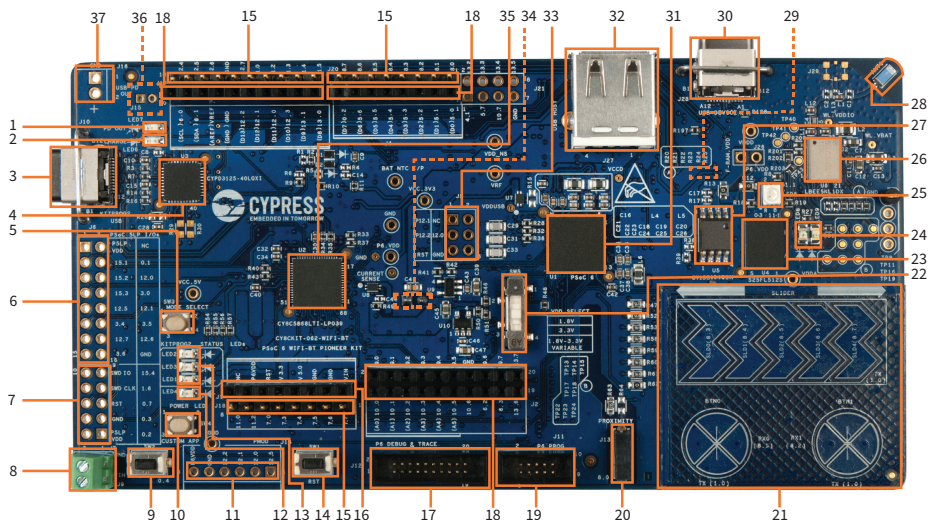
Note: A non-enterprise Wi-Fi network or a mobile hotspot operating at 2.4 GHz on another device must be used.



Verify Output

1. The kit connects to the Wi-Fi network, starts an HTTP server, and synchronizes to a time server. This may take two minutes to complete.
2. After the device is successfully connected to the network, click **Display Device Data** to view the device data.
3. The TFT screen displays the PWM duty cycle and the ambient light sensor voltage. Light sensor voltage changes with intensity of ambient light. Swipe your finger on the CAPSENSE™ slider or press the CAPSENSE™ buttons (BTN0 or BTN1) to change the PWM duty cycle and LED8 brightness.
4. On another PC/mobile, connect to the same Wi-Fi network that the kit was connected to in step 2.
5. Open a new web browser and go to the address shown on the TFT display. The webpage shows the light sensor voltage and PWM duty cycle. Use the buttons on webpage to decrease or increase the LED8 brightness.

PSoc™ 6 Wi-Fi Bluetooth® pioneer board details

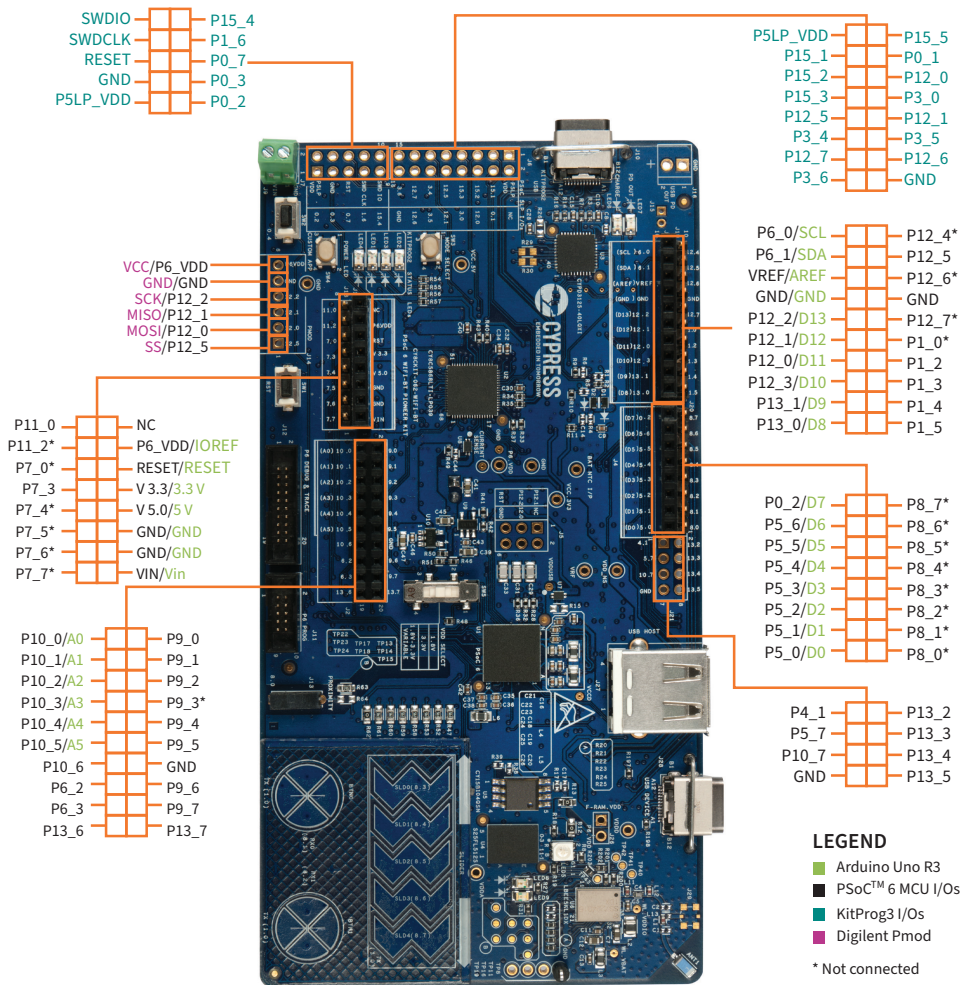


1. USB PD output voltage availability indicator (LED7)
2. Battery charging indicator (LED6)
3. KitProg2 USB Type-C connector (J10)
4. EZ-PD™ CCG3 Type-C Port Controller with PD (CYPD3125-40LQXI, U3)
5. KitProg2 programming mode selection button (SW3)
6. KitProg2 I/O header (J6)*
7. KitProg2 programming/custom application header (J7)*
8. External power supply connector (J9)
9. PSoc™ 6 user button (SW2)
10. KitProg2 application selection button (SW4)
11. I/O header compatible with Digilent Pmod (J14)*
12. Power LED (LED4)
13. KitProg2 status LEDs (LED1, LED2, and LED3)
14. PSoc™ 6 reset button (SW1)
15. PSoc™ 6 I/O header (J18, J19 and J20)
16. Power header compatible with Arduino Uno R3 (J1)
17. PSoc™ 6 debug and trace header (J12)
18. I/O headers compatible with Arduino Uno R3 (J2, J3, J4)
19. PSoc™ 6 program and debug header (J11)
20. CAPSENSE™ proximity header (J13)
21. CAPSENSE™ slider and buttons (BTN0, BTN1, SLIDER)
22. PSoc™ 6 VDD selection switch (SW5)
23. Infineon 512-Mbit serial NOR flash memory (S25FL512S, U4)
24. PSoc™ 6 user LEDs (LED8, LED9)
25. RGB LED (LED5)
26. Wi-Fi/Bluetooth® module (LBEE5KL 1DX, U6)
27. Infineon EXCELON™ Ultra Quad-SPI F-RAM (CY15B104QSN, U5)
28. Wi-Fi/Bluetooth® antenna (ANT1)
29. VBACKUP and PMIC control selection switch (SW7)**
30. PSoc™ 6 USB device Type-C connector (J28)
31. PSoc™ 6 MCU (CY8C6247BZI-D54, U1)
32. PSoc™ 6 USB host Type-A connector (J27)
33. ICS header compatible with Arduino Uno R3 (J5)*
34. PSoc™ 6 power monitoring jumper (J8)**
35. KitProg3 programmer and debugger based on PSoc™ 5LP (CY8C5868LTI-LP039, U2)
36. Battery connector (J15)**
37. USB PD output voltage (9V/12V) connector (J16)*

*Footprints only, not populated on the board

**Components at the bottom side of the board

PSoC™ 6 Wi-Fi Bluetooth® pioneer board details



For additional details, see the kit guide available on the Infineon [kit webpage](#).