Install the CySmart mobile application on your iOS or Android device from App Store™ or Google Play™ store respectively

Power the board by connecting it to your PC using the provided USB cable through USB connector (J10)

The E-INK display will now refresh and show the instructions to evaluate the pre-programmed code example: CE220167 – PSoC 6 MCU with BLE Connectivity: BLE with User Interface
After power up, BLE will advertise for 20 seconds. The orange LED (LED8) remains on during this period to indicate the BLE advertising state. If the BLE advertisement has timed out (LED8 is off), press SW2 to restart advertisement.

When connected, the CySmart mobile application will list the services supported by the Peripheral. Scroll and select the CapSense Slider service. Swipe your finger on the CapSense slider on the board and see a similar response on the CapSense Slider page in the CySmart application.

Press the back button to return to the service selection page. Scroll and select the RGB LED service. On the RGB LED service page, select a color on the color gamut to see a similar color response from the on-board RGB LED (LED5).

For instructions to evaluate the additional features of this example, install the Kit software and refer to the code example: CE220167 – PSoC 6 MCU with BLE Connectivity: BLE with User Interface.
1. Battery charging indicator (LED6)
2. USB PD output voltage availability indicator (LED7)
3. KitProg2 USB connector (J10)
4. Cypress 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 BLE user button (SW2)
10. KitProg2 application selection button (SW4)
11. Digilent® Pmod™ compatible I/O header (J14)
12. Power LED (LED4)
13. KitProg2 status LEDs (LED1, LED2, and LED3)
14. PSoC 6 BLE reset button (SW1)
15. PSoC 6 BLE I/O header (J18, J19, and J20)
16. Arduino™ Uno R3 compatible power header (J1)
17. PSoC 6 BLE debug and trace header (J12)
18. Arduino™ Uno R3 compatible PSoC 6 BLE I/O header (J2, J3, and J4)
19. PSoC 6 BLE program and debug header (J11)
20. KitProg2 programming target selection switch (SW6)
21. CapSense slider and buttons
22. CapSense proximity header (J13)
23. PSoC 6 BLE VDD selection switch (SW5)
24. PSoC 6 BLE power monitoring jumper (J8)
25. Arduino™ Uno R3 compatible ICSP header (J5)
26. PSoC 6 BLE user LEDs (LED8 and LED9)
27. RGB LED (LED5)
28. Cypress 512-Mbit serial NOR flash memory (S25FL512S, U4)
29. Cypress serial Ferroelectric RAM (U5)
30. Vbackup and PMIC control selection switch (SW7)
31. Cypress PSoC 6 BLE (CY8C6347BZI-BLD53, U1)
32. BLE antenna
33. U.FL connector for external antenna (J17)
34. Cypress main voltage regulator (MB39C022G, U6)
35. KitProg2 (PSoC 5LP) programmer and debugger (CY8C5868LTLI-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
For the latest information about this kit, visit www.cypress.com/CY8CKIT-062-BLE