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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



PSoC® 6 BLE PIONEER KIT



Kit Contents:

- 1 PSoC® 6 BLE Pioneer Board
- 2 CY8CKIT-028-EPD E-INK Display Shield
- 3 CY5677 CySmart™ BLE 4.2 USB Dongle
- 4 USB Type-A to Type-C cable
- 5 Four jumper wires (4 inches each)
- 6 Two proximity sensor wires (5 inches each)
- 7 Quick Start Guide (this document)



www.cypress.com/CY8CKIT-062-BLE

CySmart™
Cypress Semiconductor Inc.

10 THOUSAND Downloads

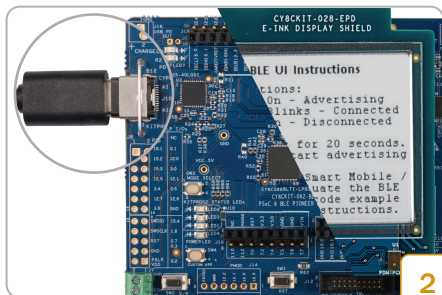
4.3 ★★★★★

Tools

Similar

CySmart™ is a Bluetooth® Low Energy utility developed by Cypress Semiconductor.

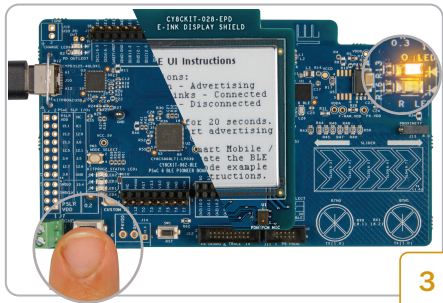
1



- 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 BLE with User Interface

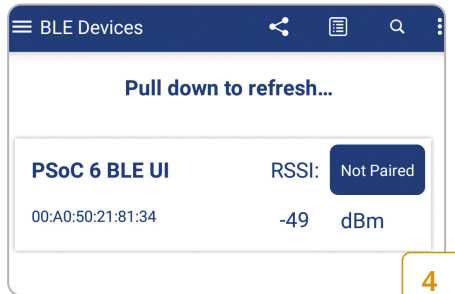
- Install the CySmart mobile application on your iOS or Android device from App StoreSM or Google PlayTM store respectively

PSoC® 6 BLE PIONEER KIT



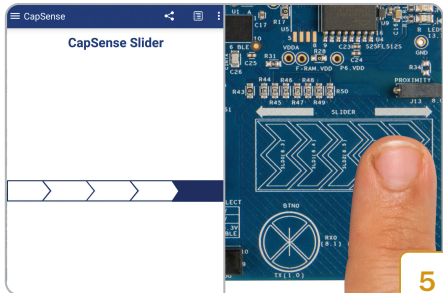
3

- 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



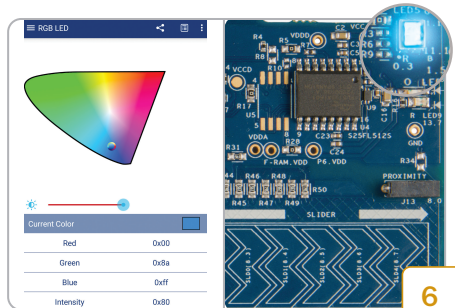
4

- Turn on Bluetooth on your mobile device and then open the CySmart application
- CySmart will list the “PSoC 6 BLE UI” Peripheral. Connect to the “PSoC 6 BLE UI” Peripheral
- A successful connection is indicated by orange LED (LED8) continuously blinking at half second intervals



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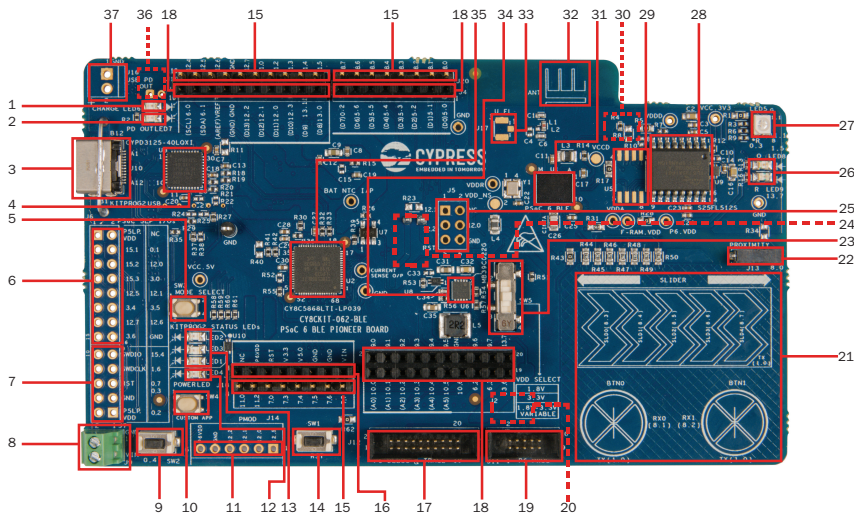
- When connected, the CySmart mobile application will list the services supported by the Peripheral. Scroll and select the CapSense Slider service
- Swipe your finger on the CapSense slider on the board and see a similar response on the CapSense Slider page in the CySmart application



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- 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 PSoC 6 BLE Pioneer Kit software and refer to the code example: CE220167 - PSoC 6 BLE with User Interface

PSoC 6 BLE Pioneer Board Details

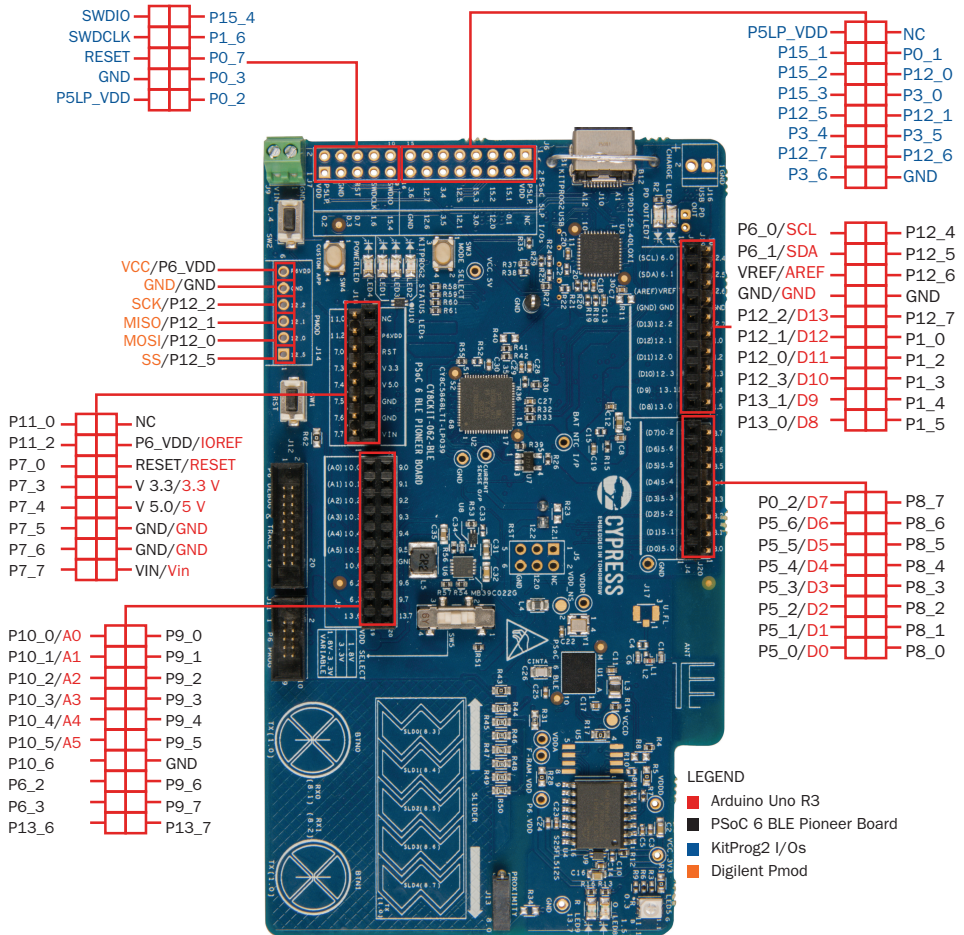


- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Battery charging indicator (LED6) 2. USB PD output voltage availability indicator (LED7) 3. KitProg2 USB connector (J10) 4. Cypress EZ-PD™ CCG3 Type-C Port Controller with PD (CYPD3125-40LQXI, U3) 5. KitProg2 programming mode selection button (SW3) 6. KitProg2 I/O header (J14)¹ 7. KitProg2 programming/custom application header (J7)¹ 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)¹ 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) | <ol style="list-style-type: none"> 20. KitProg2 programming target selection switch (SW6)² 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)² 25. Arduino™ Uno R3 compatible ICSP header (J5)¹ 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)¹ 30. Vbackup and PMIC control selection switch (SW7) 31. Cypress PSoC 6 BLE (CY8C6347BZ1-BLD53, U1) 32. BLE antenna 33. U.FL connector for external antenna (J17)¹ 34. Cypress main voltage regulator (MB39C022G, U6) 35. KitProg2 (PSoC 5LP) programmer and debugger (CY8C5868LTI-LP039, U2) 36. Battery connector (J15)^{1,2} 37. USB PD output voltage (9V/12V) connector (J16)¹ |
|--|---|

¹Footprints only, not populated on the board

²Components at the bottom side of the board

PSoC 6 BLE Pioneer Board Pinout Details



For the latest information about this kit, visit www.cypress.com/CY8CKIT-062-BLE