

PSoC® 4 S-SERIES PIONEER KIT



Kit Contents:

- 1 PSoC® 4 S-Series Pioneer Kit
- 2 USB Standard-A to Micro-B cable
- 3 Water dropper
- 4 Four press-fit connectors (one 8x2, one 10x1, two 8x1)
- 5 Four jumper wires (4 inches each)
- 6 Quick Start Guide (this document)



www.cypress.com/CY8CKIT-041

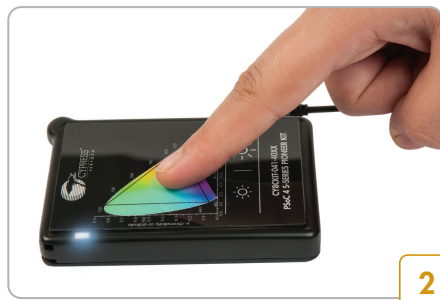


1

- Connect the kit to your PC using the provided USB cable

Note 1: Ensure the 'PWR SEL' switch is in the 'EXT' position, before connecting the kit

Note 2: This demo does not require driver installation, although it may continue in the background



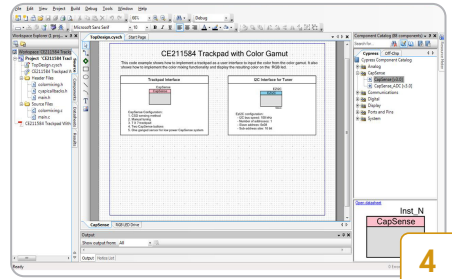
2

- Touch the color gamut triangle to select a particular color. RGB LED will turn ON with the selected color.
- Once the finger is removed from the kit, the RGB LED will turn off after 3 seconds.



3

- Touch left or right CapSense buttons to decrease or increase the RGB LED brightness level



4

- To get started, download and install the PSoC Creator™ IDE, CY8CKIT-041-40XX PSoC 4 S-Series Pioneer Kit code examples, documents and hardware design files from www.cypress.com/CY8CKIT-041

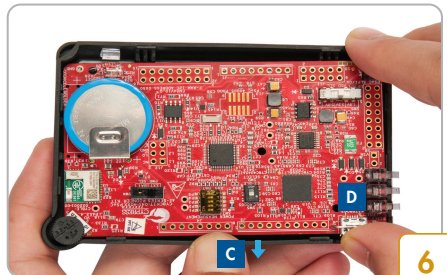
How to open the kit case

The case houses an FR4 board called the PSoC 4 S-Series Pioneer board (main board) and a Flex PCB



5

- Pull out the bottom case by inserting the finger in the notch provided (A)
- Remove the bottom case by gradually moving the finger along the edge of the bottom case (B)

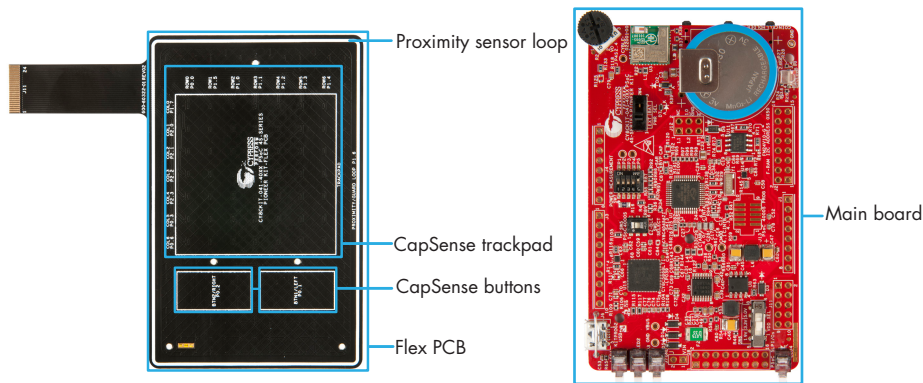


6

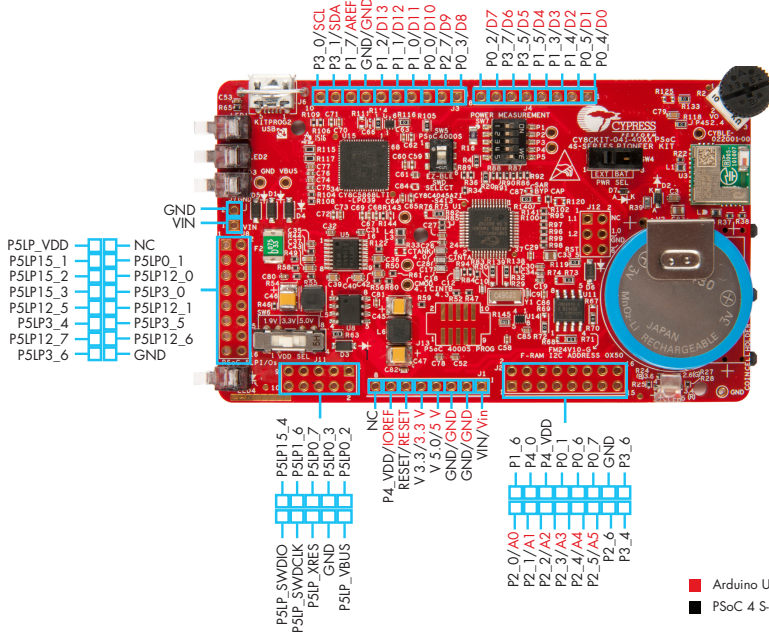
For detaching the main board from the top case

- Hold the kit as shown in the figure and pull the side wall outwards (C)
- Hold the USB connector and gently lift the board upwards (D)
- The Flex PCB is permanently attached to the top case. Do not attempt to separate the Flex PCB from the top case

Note: Refer to the Kit Guide for details on reassembling the kit case.

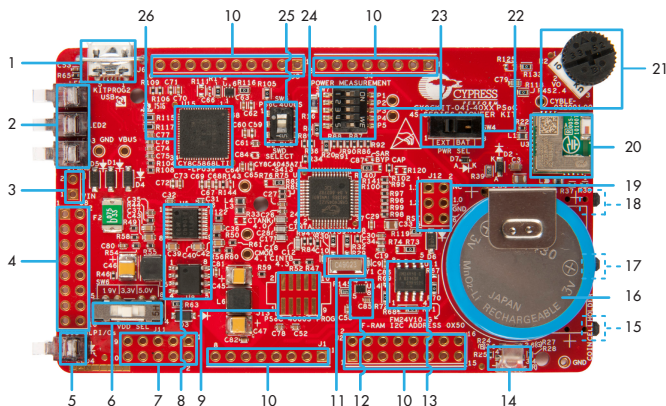


PSoC 4 S-Series Pioneer Board Pinout Description



PSoC® 4 S-SERIES PIONEER KIT

PSoC 4 S-Series Pioneer Board Details



- | | |
|---|---|
| 1. KitProg2 USB Micro-B connector (J6) | 14. RGB LED (LED5) |
| 2. KitProg2 status LEDs (LED1, LED2 and LED3) | 15. KitProg2 user button (SW3) |
| 3. External power supply header (J7) | 16. Rechargeable battery (ML2430-HS1, V2) |
| 4. KitProg2 (PSoc 5LP) I/O header (J8) | 17. User Button (SW2) |
| 5. Power LED (LED4) | 18. Reset button (SW1) |
| 6. System power (VDD) selection switch (SW6) | 19. Arduino ICSP compatible header (J12) |
| 7. KitProg2 custom application/programming header (J11) | 20. EZ-BLE™ ProC™ Module (CYBLE-022001-00, U3) |
| 8. Voltage regulator circuit | 21. Potentiometer (R2) |
| 9. PSoc 4000S 10-pin program and debug header (J13) | 22. VDD source selection switch (SW4) |
| 10. Arduino™ compatible power and I/O headers (J1, J2, J3 and J4) | 23. Current measurement selection switch (SW7) |
| 11. 32.768 kHz crystal oscillator (Y1) | 24. PSoc 4000S (CY8C4045AZI-S413, U1) |
| 12. Voltage Level Translator for F-RAM (U14) | 25. Programming target (PSoc 4000S/EZ-BLE ProC Module) selection switch (SW5) |
| 13. Cypress F-RAM 1Mb (FM24V10-G, U11) | 26. KitProg2 (PSoc 5LP) programmer and debugger (CY8C5868LTI-LP039, U15) |

For the latest information about this kit, visit www.cypress.com/CY8CKIT041