

# PSOC® 4 L-SERIES PIONEER KIT

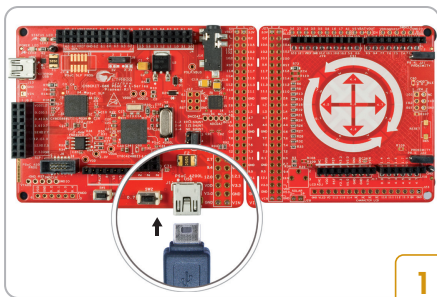


## Kit Contents:

- 1 PSOC® 4 L-Series Pioneer board
- 2 USB Standard-A to Mini-B cable
- 3 Four jumper wires (4 inches each)
- 4 Two proximity sensor wires (5 inches each)
- 5 Stereo audio earphone with microphone
- 6 Quick Start Guide (this document)

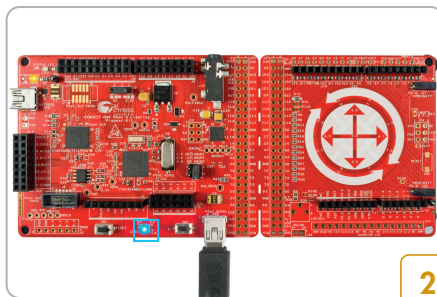


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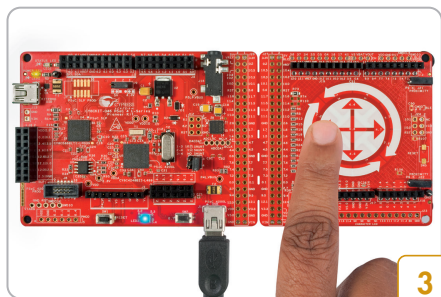
1

- Connect the board to your PC using the provided USB cable through PSoC 4200L USB connector J11



2

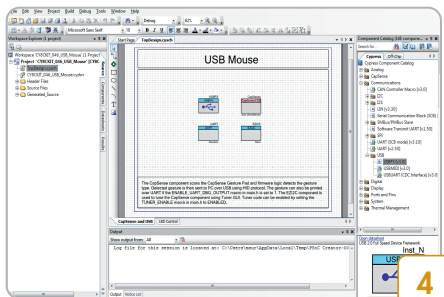
- The board will enumerate as a USB composite device (HID mouse and keyboard)
- Wait for the driver installation to complete. Blue LED turns on indicating successful driver installation



3

- Control the mouse pointer and buttons using the CapSense® Gesture Pad (operating as a joystick)

Note: Refer to **USB Mouse** example in the Kit Guide for details on various gestures supported by the CapSense Gesture Pad (joystick)



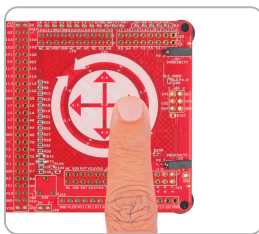
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- Download and install the PSoC Creator™ IDE, PSoC 4 L-Series Pioneer Kit code examples, documents and hardware design files from [www.cypress.com/CY8CKIT-046](http://www.cypress.com/CY8CKIT-046)

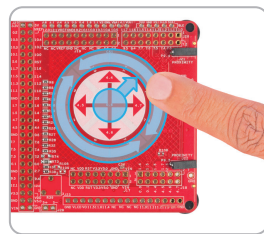
### Supported actions



Left-click



Right-click



Mouse pointer (joystick) control

### Additional Learning Resources

PSoC Creator:

[www.cypress.com/PSOCcreator](http://www.cypress.com/PSOCcreator)

AN79953 – Getting Started with PSoC 4:

[www.cypress.com/AN79953](http://www.cypress.com/AN79953)

AN73854 – PSoC 3, PSoC 4, and PSoC 5LP Introduction to Bootloaders:

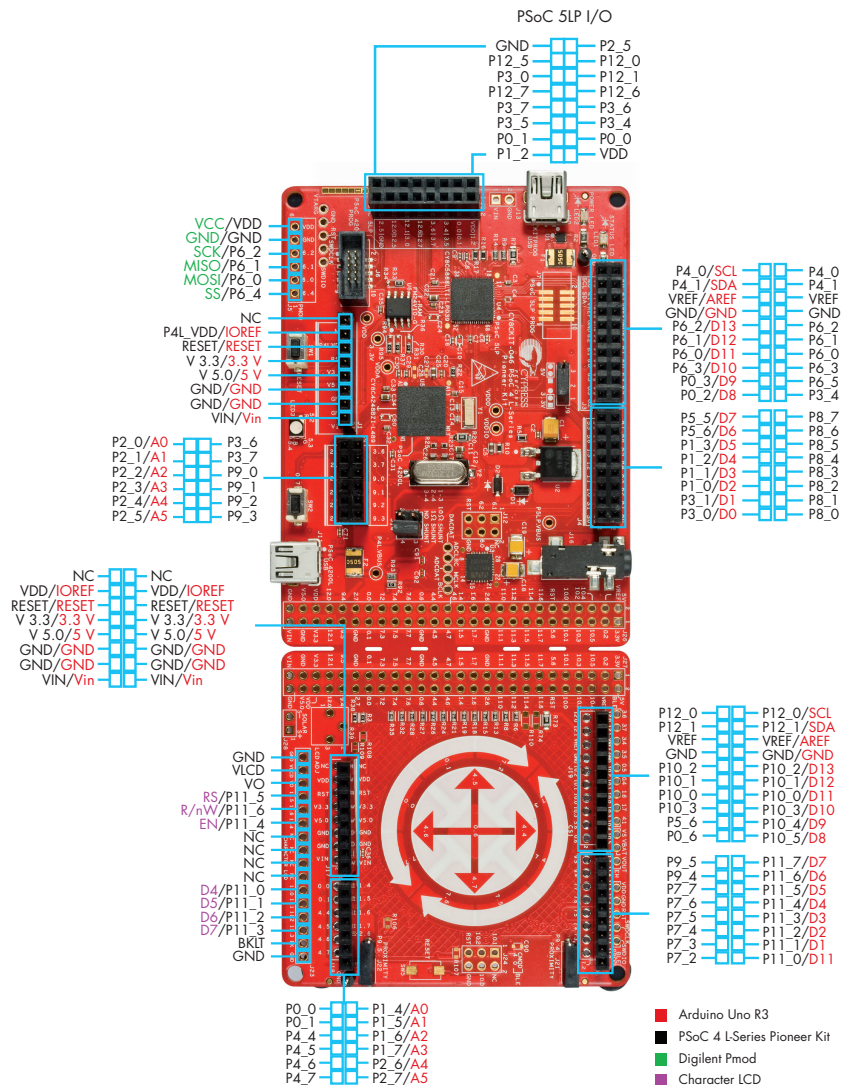
[www.cypress.com/AN73854](http://www.cypress.com/AN73854)

AN84858 – PSoC 4 and PSoC Analog Coprocessor Programming Using an External Microcontroller (HSSP):  
[www.cypress.com/AN84858](http://www.cypress.com/AN84858)

AN85951 – PSoC 4 and PSoC 6 MCU CapSense Design Guide  
[www.cypress.com/AN85951](http://www.cypress.com/AN85951)

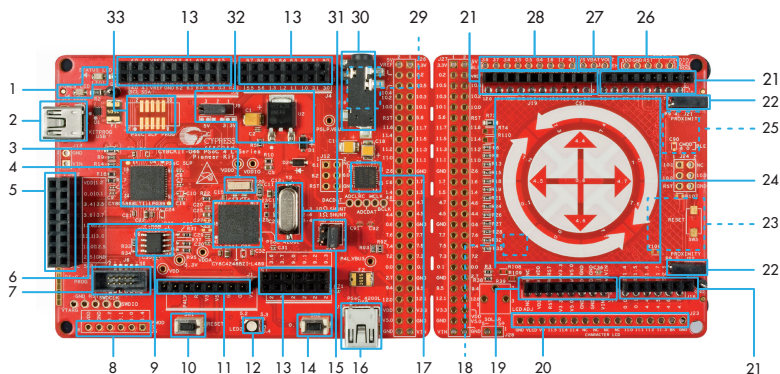
PSoC Code Examples:  
[www.cypress.com/CodeExamples](http://www.cypress.com/CodeExamples)

## PSoC 4 L-Series Pioneer Board Details



# PSoC® 4 L-SERIES PIONEER KIT

## PSoC 4 L-Series Pioneer Board Details



- |                                                             |                                                                                  |
|-------------------------------------------------------------|----------------------------------------------------------------------------------|
| 1. Power (LED2) and Status (LED1) LEDs                      | 17. Audio CODEC (WM8731CLSEFL, U3)                                               |
| 2. KitProg USB connector (J10)                              | 18. Cypress Energy Harvesting PMIC (S6AE101A, U12)*                              |
| 3. 32.768 kHz crystal (Y1)                                  | 19. Arduino compatible shield board power header (J17)                           |
| 4. PSoC 5LP programmer and debugger (CY8C5868LTI-LP039, U4) | 20. Character LCD header (J23)*                                                  |
| 5. PSoC 5LP I/O header (J8)                                 | 21. Arduino compatible shield board I/O headers (J18/J19/J20)                    |
| 6. PSoC 4200L (CY8C4248BZ-L489, U5)                         | 22. CapSense Proximity headers (J21, J22)                                        |
| 7. PSoC 4200L program and debug header (J6)                 | 23. $\mu$ SD card interface (J25) and Cypress Serial NOR Flash (S25FL512S, U13)* |
| 8. Digilent® Pmod™ compatible I/O header (J5)*              | 24. CapSense® Gesture Pad                                                        |
| 9. Cypress F-RAM 1 Mb (FM24V10-G, U6)                       | 25. EZ-BLE™ PRoC™ Module (CYBLE-022001-00, U8)*                                  |
| 10. PSoC 4200L reset button (SW1)                           | 26. EZ-BLE Programming header (BLE PROG)*                                        |
| 11. Arduino™ compatible main board power header (J1)        | 27. Energy Harvesting PMIC header (EH)*                                          |
| 12. RGB LED (LED3)                                          | 28. EZ-BLE I/O header (BLE)*                                                     |
| 13. Arduino compatible main board I/O headers (J2/J3/J4)    | 29. Audio jack selection (AHJ/OMTP) switch (SW4)*                                |
| 14. User button (SW2)                                       | 30. Audio jack - 3.5 mm (J16)                                                    |
| 15. PSoC 4200L current measurement jumper (J14)             | 31. 17.2032 MHz crystal (Y2)                                                     |
| 16. PSoC 4200L USB connector (J11)                          | 32. System power selection jumper (J9) and LDO (3.3V, U2)                        |
|                                                             | 33. PSoC 5LP program and debug header (J7)*                                      |

\*Footprint only, not populated on the board

For the latest information about this kit, visit [www.cypress.com/CY8CKIT-046](http://www.cypress.com/CY8CKIT-046)