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THIS SPEC IS OBSOLETE

Spec No: 002-11173

Spec Title: PSOC(R) ANALOG COPROCESSOR PIONEER KIT CY8CKIT-048 QUICK START GUIDE

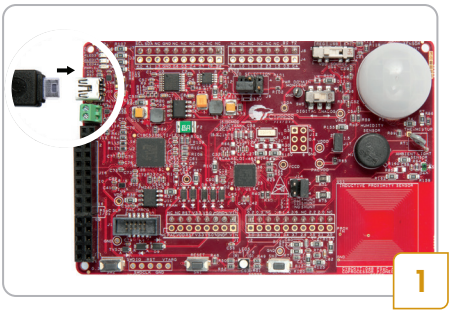
Replaced by: NONE

PSoC® ANALOG COPROCESSOR PIONEER KIT

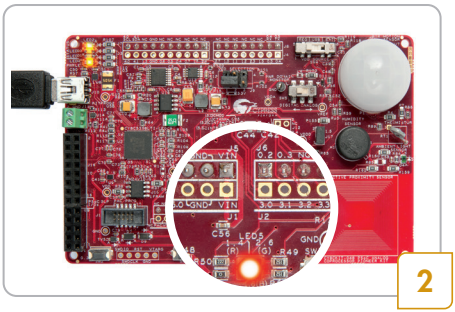


Kit Contents:

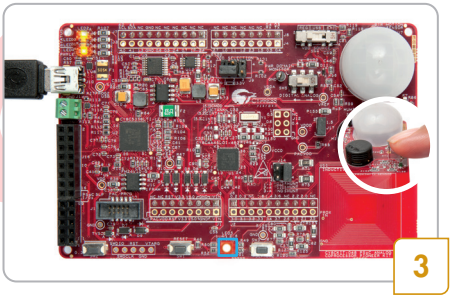
1. PSoC®Analog Coprocessor Pioneer board
2. USB Standard-A to Mini-B cable
3. Four jumper wires (4 inches each)
4. Five connectors (one10x1, two 8x1, one 6x1 and one 4x1)
5. One metal disk
6. Quick Start Guide (this document)



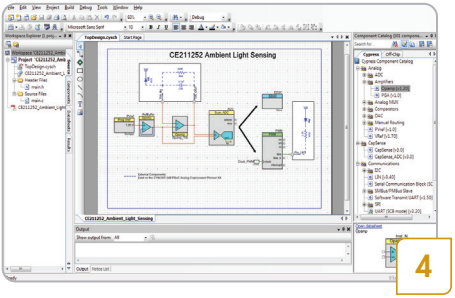
- Connect the board to your PC using the provided USB cable
  Note: This demo does not require driver installation, although this may continue in the background



- The on-board RGB LED will turn on with red color



- Control the intensity of the RGB LED by bringing your finger close to the Ambient Light Sensor (ALS)
  Note 1: Bringing your finger close to the ALS (do not touch the sensor) obstructs the light falling on the sensor.
  Note 2: To observe the change in RGB LED intensity, keep the board in a location with good ambient light illuminance.



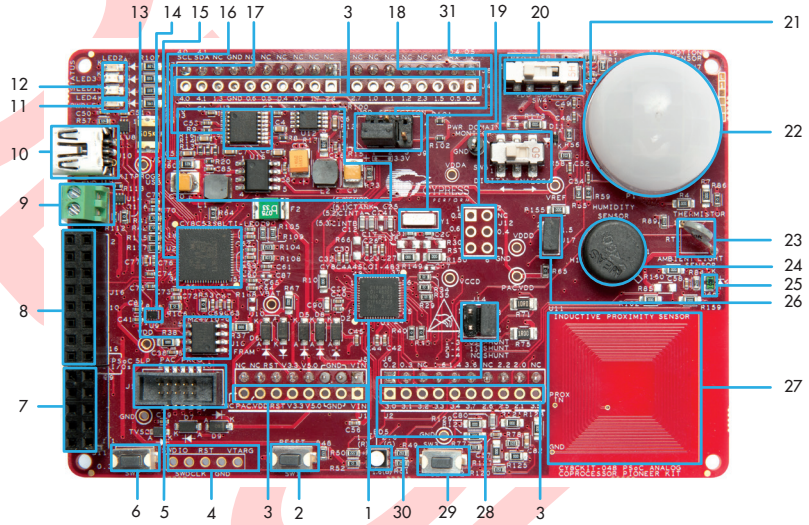
- To get started, download and install the PSoC Creator™ IDE, PSoC Analog Coprocessor Pioneer Kit code examples, documents and hardware design files from www.cypress.com/CY8CKIT-048

Jumpers/Switches Default Position

Jumper/Switch	Purpose	Default Position
J9	System Power (VDD Voltage) Selection	1-2
J14	Shunt Selection for Current Measurement	3-4
J17	Humidity Sensor Calibration	1-2
SW4	VDD Source Selection	REG
SW5	Power Domain Monitor Selection	DIGITAL

OBSOLETE

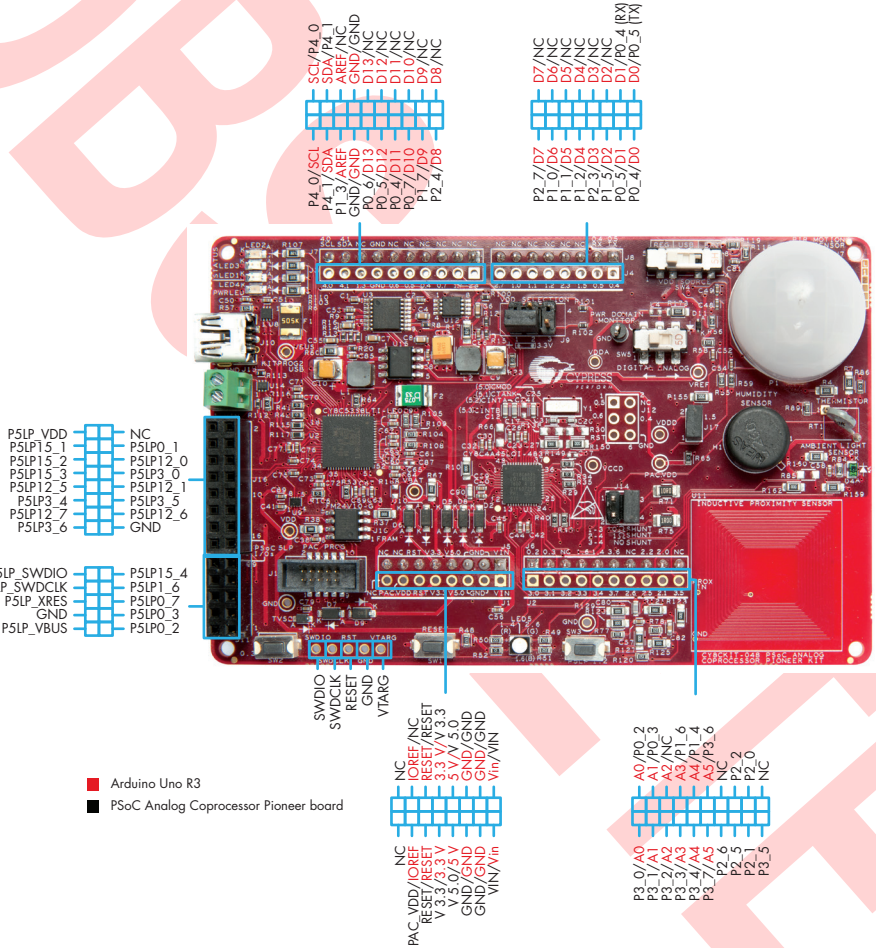
PSoC Analog Coprocessor Pioneer Board Details



1. PSoC Analog Coprocessor (CY8C4A45LQI-483, U1)
2. PSoC Analog Coprocessor reset button (SW1)
3. Arduino™ Uno shield compatible power and I/O headers (J1, J2, J3, J4)
4. PSoC Analog Coprocessor 5-pin program and debug test points
5. PSoC Analog Coprocessor 10-pin program and debug header (J13)
6. User button (SW2)
7. KitProg2 custom application/programming header (J11)
8. KitProg2 I/O header (J16)
9. External power supply connector (J15)
10. KitProg2 USB Mini-B connector (J10)
11. Power LED (LED4)
12. KitProg2 status LEDs (LED1, LED2, LED3)
13. Cypress F-RAM 1 Mb (FM24V10-G, U10)
14. Voltage Level Translator for F-RAM (U9)
15. KitProg2 (PSoC 5LP) programmer and debugger (CY8C5868LTI-LP039, U2)
16. Voltage regulator circuit
17. Cypress PMIC (MB39C011APFT-G-BND-ERE1, U3)
18. System Power (VDD) selection jumper (J9)
19. Arduino ICSP compatible header (J12)
20. Power domain selection switch for current measurement (SW5)
21. VDD source selection switch (SW4)
22. PIR Motion Sensor (ZRE200GE, U7)
23. Thermistor (B57164K103J, RT1)
24. Humidity Sensor (HPP801A031, H1)
25. Ambient Light Sensor (TEMD6200FX01, D4)
26. Humidity Sensor calibration jumper (J17)
27. Inductive Proximity Sensor (U11)
28. Current measurement jumper (J14)
29. KitProg2 user button (SW3)
30. RGB LED (LED5)
31. 32.768 kHz crystal oscillator (Y1)

PSoC® ANALOG COPROCESSOR PIONEER KIT

PSoC Analog Coprocessor Pioneer Board Pinout Description



Arduino Uno R3

PSoC Analog Coprocessor Pioneer board

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