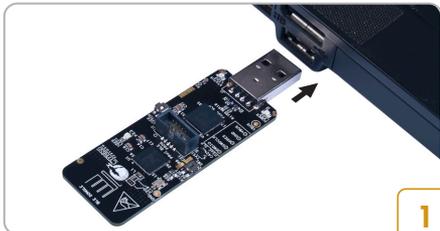


BLUETOOTH® LOW ENERGY PIONEER KIT

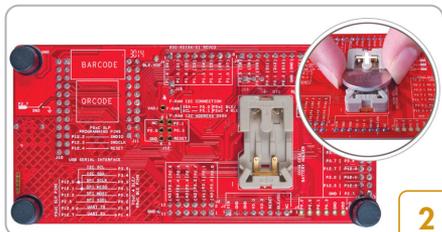


- 1 CY5671 ProSoC™ BLE Module
- 2 BLE Pioneer Baseboard preloaded with CY8CKIT-142 PSoC® 4 BLE Module
- 3 CY5670 CySmart™ USB Dongle
- 4 Four jumper wires (4 inches each)
- 5 Two proximity sensor wires (5 inches each)
- 6 Coin cell (3-V CR2032)
- 7 USB Standard-A to Mini-B cable
- 8 Quick Start Guide (this document)



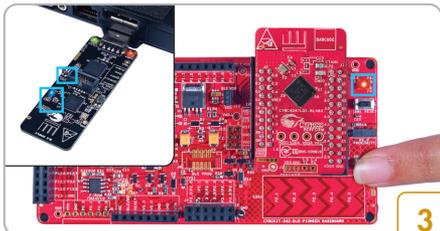
1

- Connect the dongle to your computer's USB port. This demo does not require installing the drivers for Windows 8 or earlier versions. Refer to Kit Guide for Windows 8.1 or later



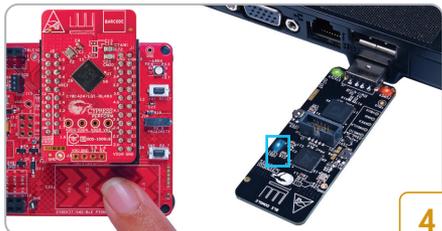
2

- Insert the 3-V coin cell (included with the kit) into the coin cell holder on the rear side of the baseboard



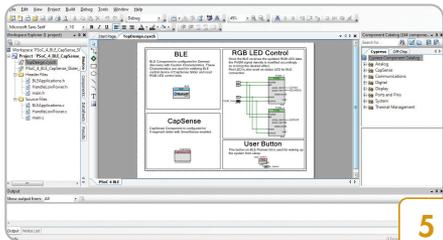
3

- Press the button SW2 on both the dongle and the baseboard. The red LED on the baseboard and the blue LED on the dongle will stay on for three seconds before turning off, indicating a Bluetooth low energy connection between the two boards

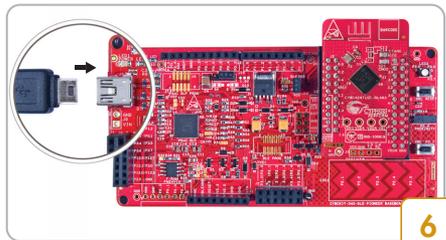


4

- Move your finger over the CapSense® slider on the baseboard to control the brightness of the blue LED on the dongle



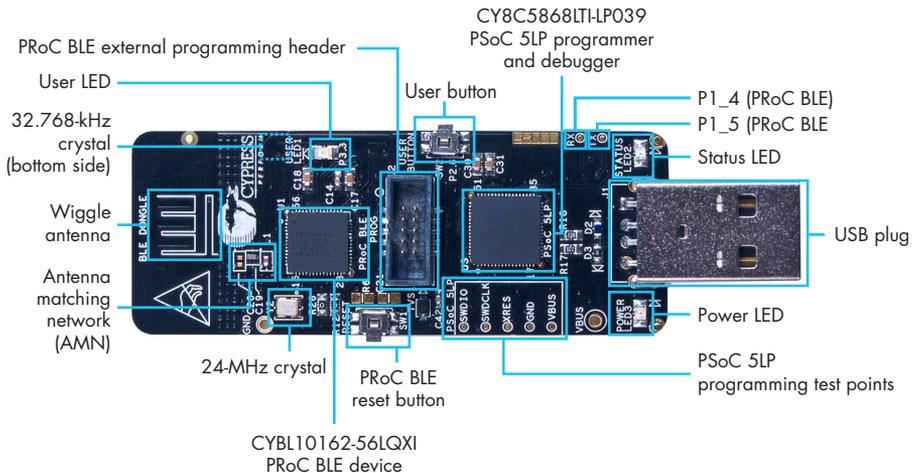
- Download and install the PSoC Creator™ IDE, BLE Pioneer Kit example projects, documents, and hardware design files from www.cypress.com/CY8CKIT-042-BLE



- To debug your PSoC Creator project, connect the baseboard (with the PSoC 4 BLE or PRoC BLE module) to your computer with a USB cable
- Refer to Chapter 4 of the Kit User Guide for additional information on example projects

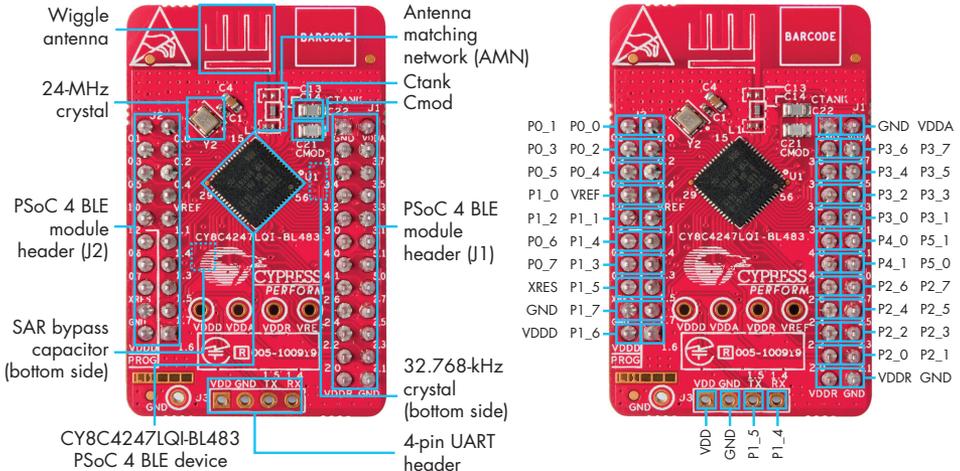
Note: If evaluating this demo near another BLE Pioneer Kit that is advertising (when using the default out-of-box firmware), the dongle may connect to the other baseboard instead. In this case, press the reset button (SW1) on both the dongle and baseboard of your kit, then repeat step 3 to retry connection between the two

Feature List and Pinout Description for CySmart USB Dongle



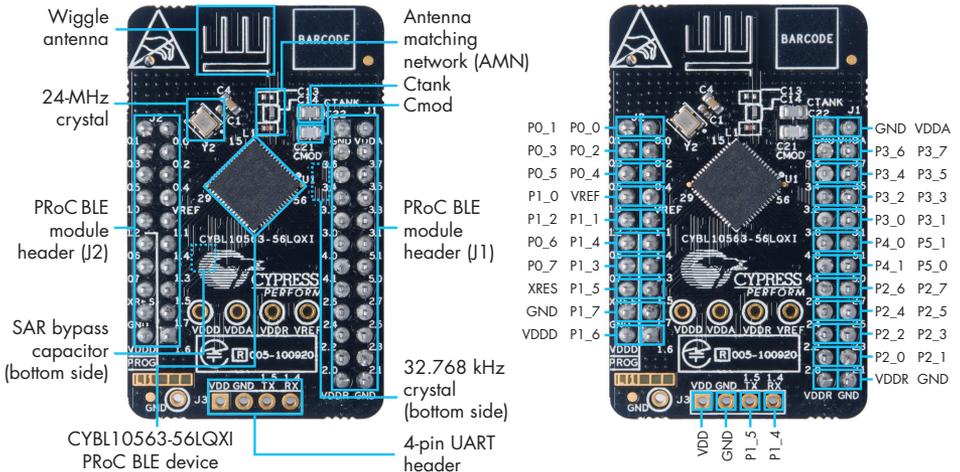
Feature List and Pinout Description for PSoC 4 BLE Module

PSoC 4 BLE - A single chip solution with a 48-MHz ARM® Cortex®-M0, BLE radio, CapSense, programmable analog (12-bit ADC, 2 current DACs, 2 low-power comparators, 4 low-power opamps) and programmable digital (4 Timer/Counter/PWMs, 4 Universal Digital Blocks, 2 Serial Communication Blocks)



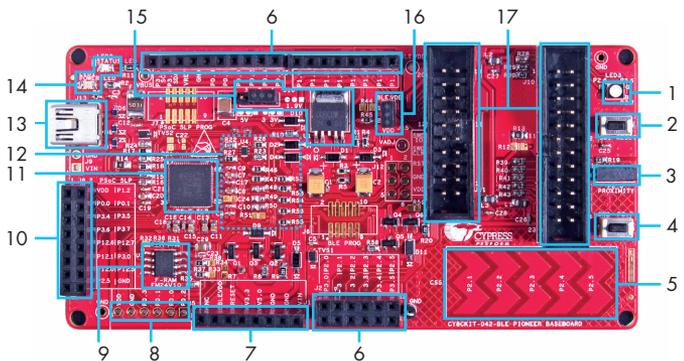
Feature List and Pinout Description for PRoC BLE Module

PRoC BLE - A single chip solution with a 48-MHz ARM Cortex-M0, BLE radio, CapSense, 2 Serial Communication Blocks, 12-bit ADC, 4 Timer/Counter/PWMs, 4 additional PWMs, I²S and LCD

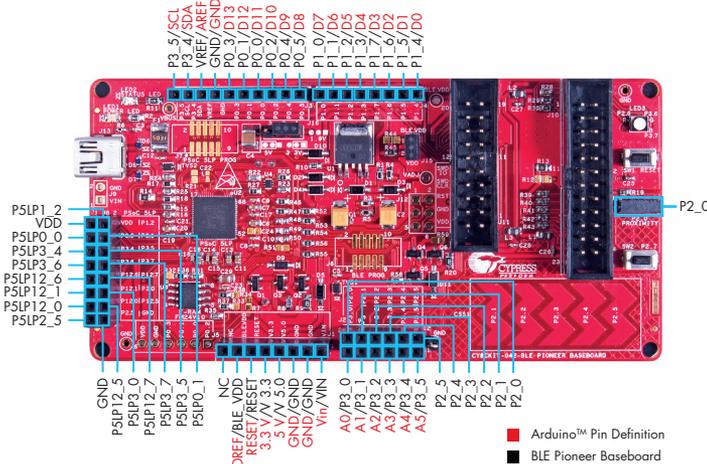


BLUETOOTH® LOW ENERGY PIONEER KIT

Feature List and Pinout Description for BLE Pioneer Baseboard



- 1 RGB LED
- 2 BLE device reset button
- 3 CapSense proximity header
- 4 User button
- 5 CapSense slider
- 6 Arduino compatible I/O Headers (J2/J3/J4)
- 7 Arduino-compatible power header (J1)
- 8 Digilent® Pmod™-compatible I/O header (J5)
- 9 Cypress F-RAM 1 Mb (FM24V10-G)
- 10 PSoC 5LP I/O header (J8)
- 11 PSoC 5LP programmer and debugger (CY8C5868LTI-HP039)
- 12 Coin cell holder (bottom side)
- 13 USB connector (J13)
- 14 Power LED and Status LED
- 15 System power supply jumper (J16) - LDO 1.9 V~5 V
- 16 BLE power supply jumper / current measurement (J15)
- 17 BLE module headers (J10/J11)



■ Arduino™ Pin Definition
■ BLE Pioneer Baseboard

For the latest information about this kit and to download kit software and hardware files, visit www.cypress.com/CY8CKIT-042-BLE

