

## QUICK START GUIDE

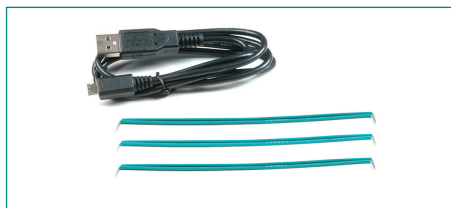
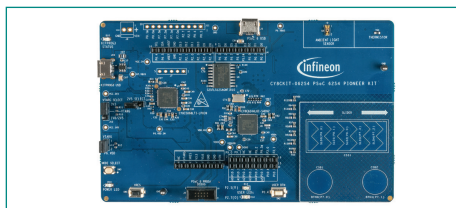
# PSoC™ 62S4 Pioneer Kit

## CY8CKIT-062S4

The PSoC™ 62S4 Pioneer Kit (CY8CKIT-062S4) is a low-cost hardware platform that enables you to design and debug applications using the PSoC™ 62 MCU.

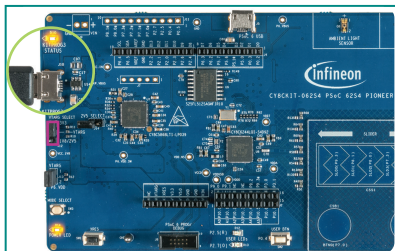
### Kit contents

1. PSoC™ 62S4 pioneer board
2. USB Type-A to Micro-B cable
3. Six jumper wires (five inch each)
4. Quick start guide (this document)



[www.infineon.com/cy8ckit-062s4](http://www.infineon.com/cy8ckit-062s4)





## 1 PSoC™ 62S4 Pioneer Board

### Before you start

1. Ensure that you have the following:

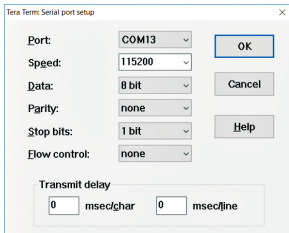
- PC with USB port
- UART terminal software such as Tera Term or Minicom
- Visit the [kit website](#) to download and install the required software
- Ensure that the jumper (J12) is at position 2-3 to select 3.3 V
- Connect the KitProg3 USB connector (J10) to your PC
- Wait for the driver installation to complete

### Connect the kit with UART terminal software

1. Open the UART terminal software and connect to the kit's USB-UART COM port with the following settings:

- Baud rate: 115200 bps
- Data: 8 bit
- Parity: None
- Stop bit: 1 bit
- Flow control: None

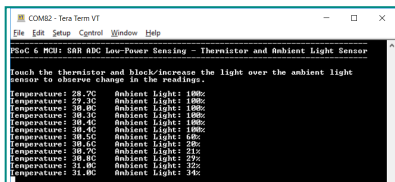
2. Press the reset button (SW1) to reset the device.



## 2 USB-UART COM port setup

### Run the pre-programmed code example

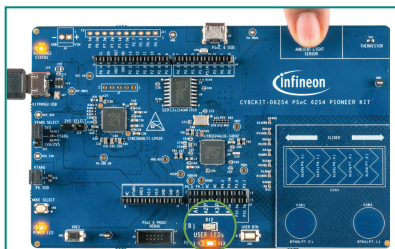
- Follow the instructions displayed on the UART terminal to use the pre-programmed code example.



## 3 Instructions displayed on the UART terminal

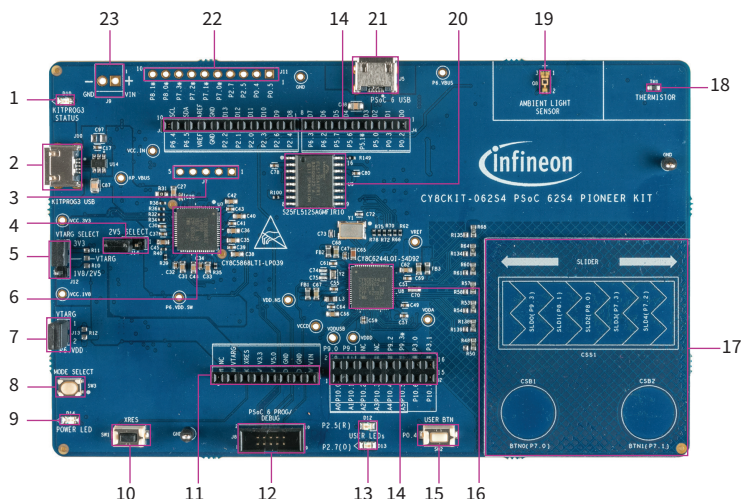
### User LED (D13) brightness variation

- Observe the user LED (D13) variation of ambient light intensity. The LED turns on when the ambient light intensity is lower than 45% and turns off when higher than 55%.



## 4 Observe the brightness in LED (D13)

## PSoc™ 62S4 Pioneer Board details



- |                                                                            |                                                                |
|----------------------------------------------------------------------------|----------------------------------------------------------------|
| 1 KitProg3 status LED (D10)                                                | 13 User LEDs (D12 and D13)                                     |
| 2 KitProg3 USB connector (J10)                                             | 14 I/O headers compatible with Arduino UNO R3 (J2, J3, and J4) |
| 3 PSoC™ 5LP programming header (J7)*                                       | 15 PSoC™ 6 MCU user button/hibernate wakeup (SW2)              |
| 4 2.5 V selection jumper (J14)                                             | 16 PSoC™ 6 MCU (CY8C6244LQI-S4D92, U8)                         |
| 5 PSoC™ 6 MCU power selection jumper (J12)                                 | 17 CAPSENSE™ buttons and slider (CSB1, CSB2, and CSS1)         |
| 6 PSoC™ 5LP based KitProg3 programmer and debugger (CY8C5868LTI-LP039, U7) | 18 Thermistor (TH1)                                            |
| 7 PSoC™ 6 MCU current measurement jumper (J13)                             | 19 Ambient light sensor (Q8)                                   |
| 8 KitProg3 programming mode selection button (SW3)                         | 20 512-Mbit Quad-SPI NOR flash (S25FL512SAGMFIR10, U9)         |
| 9 Power LED (D14)                                                          | 21 PSoC™ 6 MCU USB connector (J5)                              |
| 10 PSoC™ 6 MCU reset button (SW1)                                          | 22 PSoC™ 6 MCU extended I/O header (J11)*                      |
| 11 Power header compatible with Arduino UNO R3 (J1)                        | 23 External power supply connector (J9)*                       |
| 12 PSoC™ 6 MCU 10-pin SWD/JTAG program and debug header (J8)               |                                                                |

\*Component is located at the bottom side of the board.

## PSoC™ 62S4 Pioneer Board pinout details

