

## QUICK START GUIDE

# PSOC™ 4100T Plus CAPSENSE™ Prototyping Kit CY8CPROTO-041TP

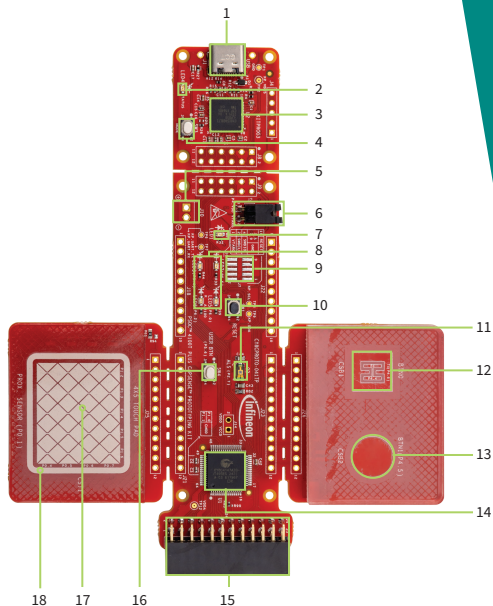
Easy, out-of-the-box experience with 5th-generation CAPSENSE™ technology demonstrating best-in-class low-power touch performance on PSOC™ 4 MCU

### Step 1: Power up the kit

- Ensure that the jumper is populated at header (J2).
- Connect the board to your PC using the USB-C cable at USB-C connector (J1) and observe that the power and status LEDs (LED1, LED4) turn on.

### Step 2: Test the operation

- Touch one of the capacitive buttons (either CSB1 or CSB2) and observe that the LED2 (red) or LED3 (green) turns on respectively.
- Swipe on the touchpad (CST1) and observe that the brightness of LED2 (red) and LED3 (green) changes corresponding to finger position on the touchpad.
- Hover your hand over the capacitive proximity sensor (CSP1) and ensure that the brightness of LED5 (blue) changes with proximity.
- Ambient light sensor (ALS) detects changes in illuminance and adjusts the brightness of LED6 (amber) accordingly.



- |   |   |    |  |
|---|---|----|--|
| 1 | USB Type-C connector (J1)                                     | 9  | MiniProg4 SWD interface header provision (J7)* |
| 2 | KitProg3 status LED (LED4)                                    | 10 | Reset switch (SW1)                             |
| 3 | PSOC™ 5LP MCU with KitProg3 firmware (CY8C5868LTI-LP039 - U2) | 11 | Ambient light sensor (Q2)                      |
| 4 | KitProg3 mode switch (SW3)                                    | 12 | CSX CAPSENSE™ button (CSB1)                    |
| 5 | External power input (J10)*                                   | 13 | CSD CAPSENSE™ button (CSB2)                    |
| 6 | Target MCU current measurement header (J2)                    | 14 | PSOC™ 4100T Plus MCU (CY8C4147AZQ-T495 - U1)   |
| 7 | Power LED (LED1)  | 15 | Multi-Sense expansion connector (J24)          |
| 8 | User LED's (LED2, LED3, LED5, LED6)                           | 16 | User button (SW4)                              |
|   |   | 17 | CAPSENSE™ touchpad (CST1)                      |
|   |   | 18 | CAPSENSE™ proximity sensor (CSP1)              |

Note : \*footprint only, not populated on the board

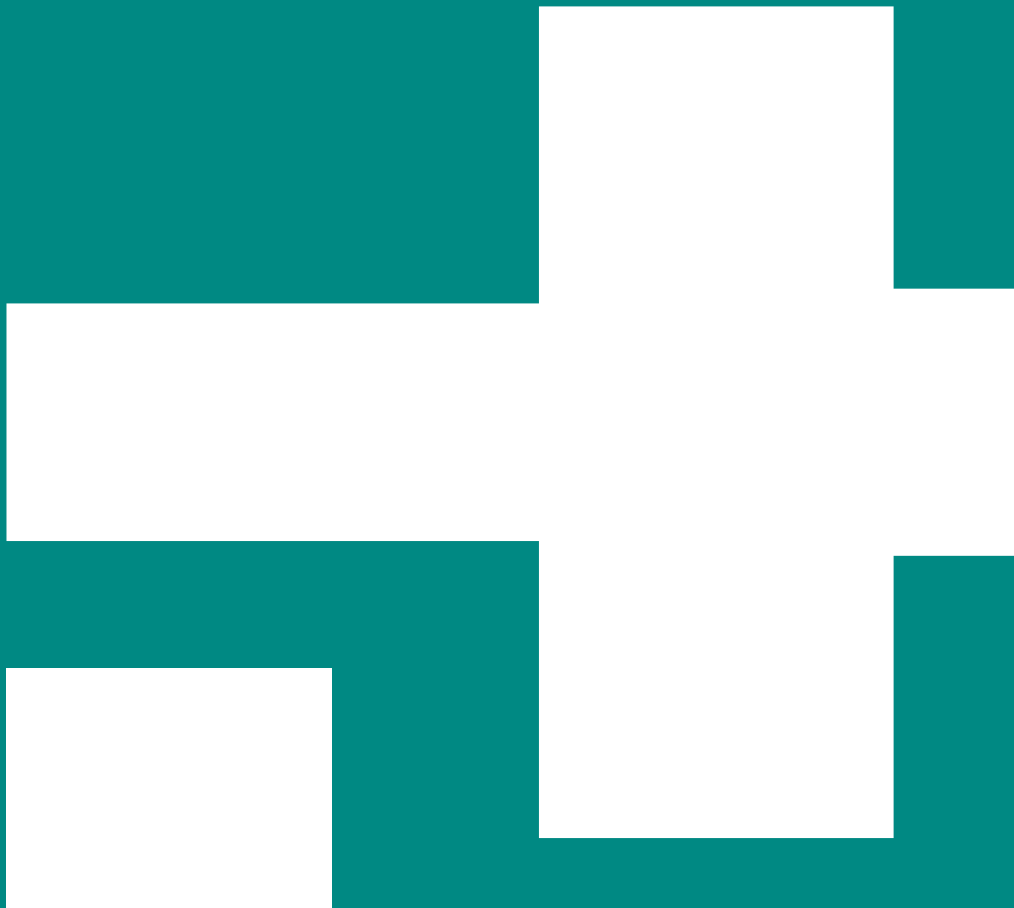
For more information, please visit:  
[www.infineon.com/CY8CPROTO-041TP](http://www.infineon.com/CY8CPROTO-041TP)



**PSOC™ Rocks**



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