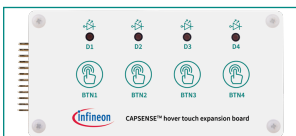
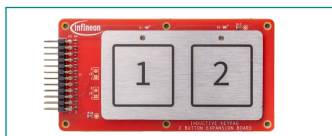
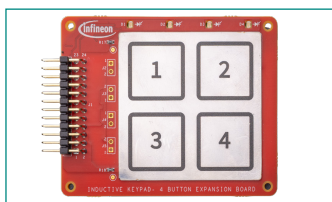
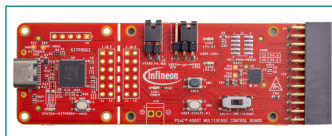


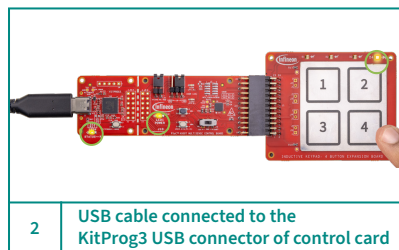
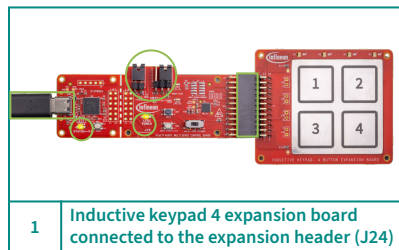
PSOC™ 4000T Multi-Sense Prototyping Kit

CY8CPROTO-040T-MS

Kit contents

1. PSOC™ 4000T Multi-Sense control board
2. Inductive keypad - 4 expansion board
3. Inductive keypad - 2 expansion board
4. Liquid level sensor expansion board
5. Plastic container for liquid level sensing demonstration
6. CAPSENSE™ hover touch expansion board
7. USB-A to USB-C cable
8. Quick start guide (this document)





Step 1: Power up the kit

a. Ensure that you have the following:

- PC with USB 2.0 port
- The jumper is populated at header(J6) and the current measurement header (J2) of of PSOC™ 4000T Multi-Sense control board
- Connect the inductive keypad - 4 expansion board to the Multi-Sense expansion header (J24)

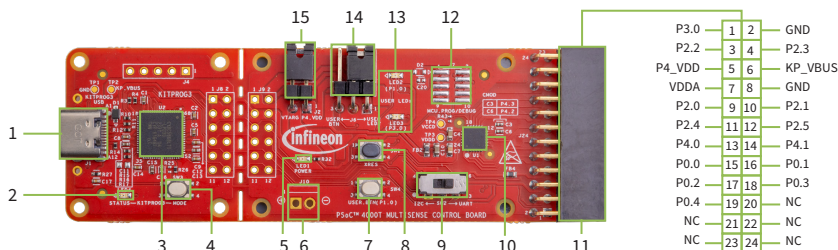
b. Connect the board to your PC using the USB cable provided and observe that the power and status LEDs (LED1, LED4) turn on.

Step 2: Test the operation of preloaded code example

a. Press the inductive sensing based buttons of the Inductive keypad - 4 expansion board and observe that the respective LEDs (D1, D2, D3, D4) on the expansion board turn on.

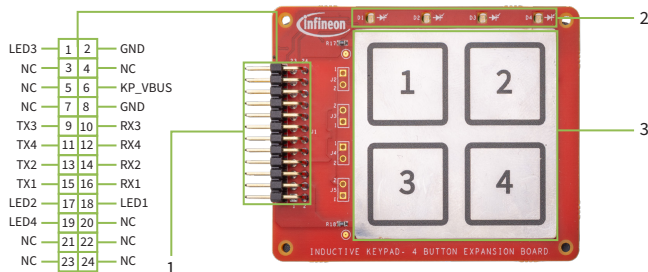
Note: Pressing the Button-3 on the expansion board turns on both user LEDs - D3 on the expansion board and LED3 on the control board. This is because both LEDs share the same GPIO pin of the MCU.

PSOC™ 4000T Multi-Sense Control Board details

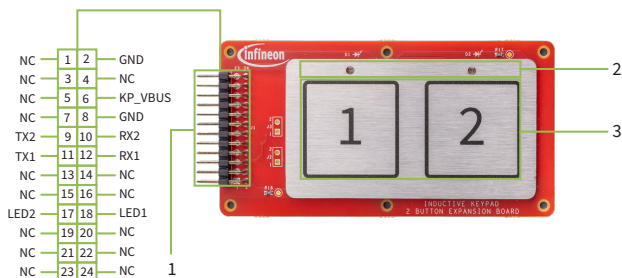


- 1 KitProg3 USB Type-C connector (J1)
- 2 KitProg3 status LED (LED4)
- 3 PSOC™ 5LP with KitProg3 firmware (U2)
- 4 KitProg3 mode switch (SW3)
- 5 Power LED (LED1)
- 6 External power supply input header (J10)
- 7 User button (SW4)
- 8 Reset button (SW1)
- 9 I2C/UART interface selection switch (SW2)
- 10 PSOC™ 4000T MCU (CY8C4046LQI-T452, U1)
- 11 Multi-Sense expansion header (J24)
- 12 MiniProg4 SWD interface header provision (J7)
- 13 User LEDs (LED2, LED3)
- 14 User LED and user button selection header (J6)
- 15 Current measurement header (J2)

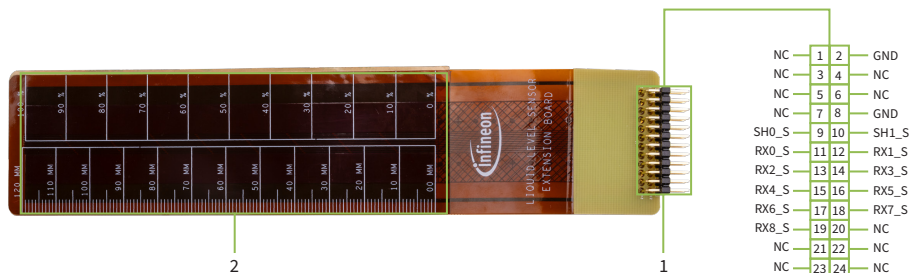
Inductive Keypad - 4 Expansion Board details



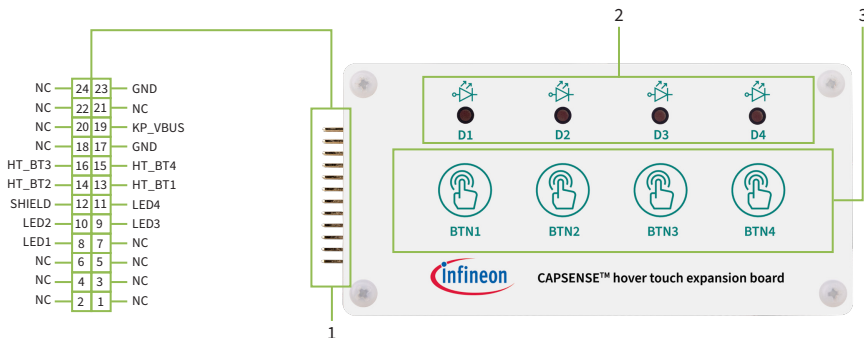
Inductive Keypad - 2 Expansion Board details



Liquid Level Sensor Expansion Board details



CAPSENSE™ Hover Touch Expansion Board details



See the kit guide available at www.infineon.com/CY8CPROTO-040T-MS for more details.

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