CAPSENSE® MECHANICAL BUTTON REPLACEMENT KIT
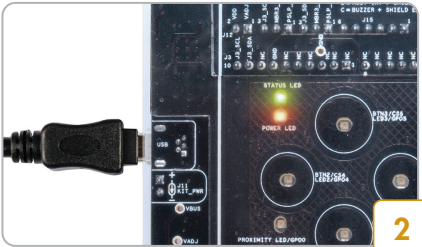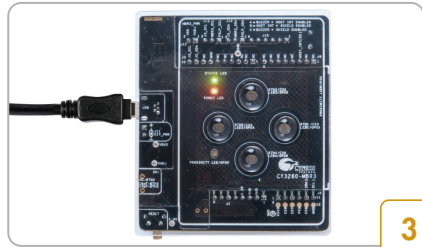

1

• Download and install the latest kit software and examples from www.cypress.com/go/CY3280-MBR3
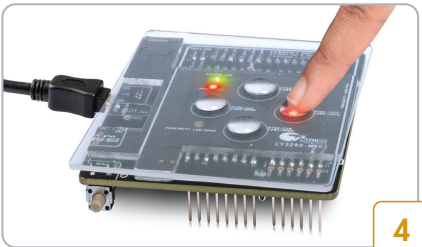

2

• Place the provided 1mm overlay on top of the kit. Connect the kit to your computer using the provided USB cable
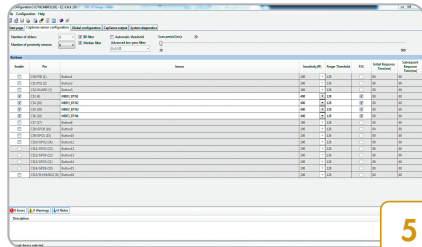

3

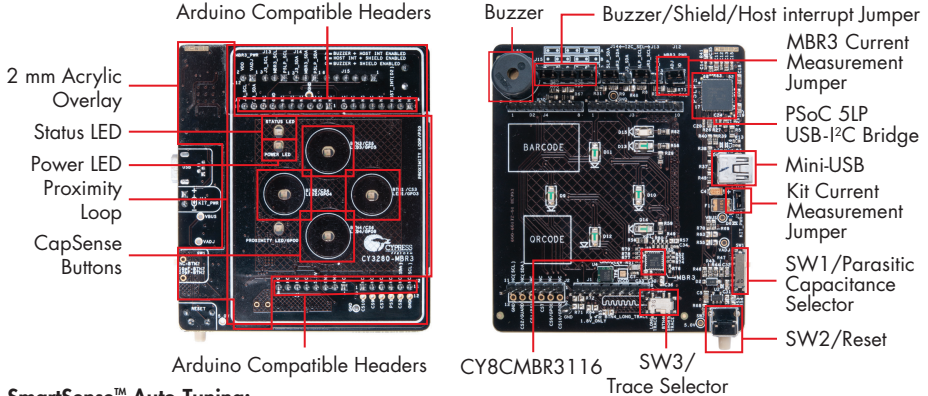• Place water droplets onto CapSense® buttons using the dropper provided

4

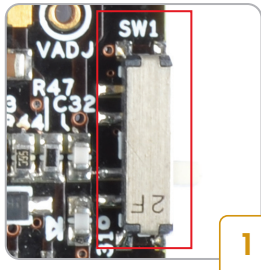• Press BTN1 with the water on the overlay to evaluate CapSense water tolerance

5

• Configure different features with the EZ-Click™ Software Tool

CAPSENSE® MECHANICAL BUTTON REPLACEMENT KIT

- Arduino Compatible Headers
- 2 mm Acrylic Overlay
- Status LED
- Power LED
- Proximity Loop
- CapSense Buttons
- Arduino Compatible Headers
- Buzzer
- Buzzer/Shield/Host interrupt Jumper
- MBR3 Current Measurement Jumper
- PSoC 5LP USB-I²C Bridge
- Mini-USB
- Kit Current Measurement Jumper
- SW1/Parasitic Capacitance Selector
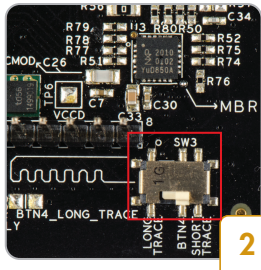- SW2/Reset
- CY8CMBR3116
- SW3/ Trace Selector

SmartSense™ Auto-Tuning:

Easily evaluate the SmartSense™ Auto-Tuning algorithm, which continuously compensates for system, manufacturing, and environmental changes. Easily evaluate the SmartSense algorithm by varying the parasitic capacitance in one of three ways:
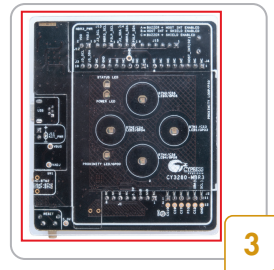

1

2

3

- Use SW1 to vary an external capacitor in parallel with the trace to BTN2

- Use SW3 to vary the trace length to BTN4

- Place the provided 1 mm overlay over the kit

Note: Reset the kit using SW2 switch after changing any parasitic capacitance values. The button performance remains the same due to SmartSense Auto-tuning

For the latest information about this kit and to download kit software and hardware files, visit http://www.cypress.com/go/CY3280-MBR3

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