

# Capacitive Touch Sensing Controller Touted as Easy-to-Implement



Cypress Semiconductor Corp. announced a new CapSense capacitive touch-sensing controller that enables designers to achieve mechanical button replacement (MBR) without having to write firmware or learn to use new software tools. The device leverages the company's SmartSense auto-tuning algorithm, which eliminates the requirement for system tuning. The accompanying design toolbox provides detailed resources to ensure optimal interface performance, and advanced system debug features allow taking designs directly to production for significantly shorter time-to-market. The controller offers desirable touch-sensing with ultra-low power consumption to extend battery life in a wide range of handheld products, and is appropriate for consumer, communication, white goods, lighting, industrial and medical applications. The hardware-configurable CY8CMBR2044 CapSense Express Mechanical Button Replacement controller operates from 1.7 V to 5.5 V and offers low overall power consumption with supply current in run mode as low as 15  $\mu$ A per button and deep sleep current of 100 nA. The device also features a built-in failure analysis feature with serial data out for debug, speeding the design-in process.

### Cypress Semiconductor Corp.

408-943-2600, [www.cypress.com](http://www.cypress.com) [1]

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