

PSoC(R) CapSense

Developer Kits

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Register today for the PSoC(R) World Tour 2006: <http://www.cypress.com/seminars/psoc> . **This free seminar will provide insight into designing with PSoC CapSense -- the highly reliable and easy - to - implement solution for capacitive touch sensing.**

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Replace dozens of breakable mechanical switches and controls with touch - sensitive, on - screen controls that are simpler, cheaper and more reliable than their mechanical counterparts.

PSoC CapSense is the future of buttons, sliders, and touchpads - economical, reliable, and available NOW.

Capacitive sensing is fast becoming the solution of choice for front - panel display and media control applications. Increased durability, decreased bill of materials (BOM) and a clean, minimalist appearance make this elegant interface attractive to a wide range of designs." With CapSense technology, a finger on the interface forms an electrical connection with embedded sensors, which work with the PSoC device to translate data about the finger's position into various system control functions. Cell phone users can slide a finger along their screen to change the volume of a call, the brightness of the screen, or the loudness of a ring tone without having to end the call and click through complicated menu structures. In notebook computers, a "touchpad" sensors have already replaced external mice for cursor movement. Applications abound in consumer, industrial, white goods, automotive and medical devices - in short, any area where durability, ease - of - use and price are a major consideration.

"CapSense is a smaller, cleaner, more flexible solution to implement control functions in any sort of electronic device," said Rich Kapusta, PSoC and WirelessUSB(TM) marketing director for Cypress. "In portable consumer devices - particularly cell phones, PDAs, and notebook computers - CapSense provides an attractive interface and product differentiation that adds real value to the system. At the same time, CapSense designs are cheaper and easier to manufacture than ones using thumb switches and potentiometers. Both the manufacturer and consumer come out ahead."

Design Tools

? [CSR User Module supported in PSoC Designer Version 4.2 SP3](#) (Available Now.)

Demonstration Kits

- ? [CY3220 - FPD](#) Includes an 8 - Button Front Panel Display Board with LCD
- ? [CY3220 - Slider](#) Includes a 16 - Switch Slider Board Demonstrating Interpolation

Application Notes

- ? [AN2233a](#) - Capacitive Switch Scan
- ? [AN2277](#) - Capacitive Front Panel Display Demonstration
- ? [AN2290](#) - CapSense Slider Demonstration (Coming Soon!)
- ? [AN2292](#) - Layout Guidelines for PSoC(R) CapSense
- ? [AN2355](#) - Calibrating CapSense with the CSR User Module
- ? [AN2360](#) - Power Consumption and Sleep Considerations in Capacitive Sensing Applications

8 New! [PSoC Example Projects for the CY3212 - CapSense Training Kit](#) . [Click here](#) to access." (You can download the schematic below.)

Hardware Description:

Supported devices include CY8C21234, CY8C21334, CY8C21434, CY8C21534, CY8C21634, CY8C24794 and CY8C24894.

Item ID: [DK10059](#)
Related Products: [PSoC Mixed - Signal Array](#)
Related Part Numbers: [CY8C24894](#)
Related Applications: None

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