

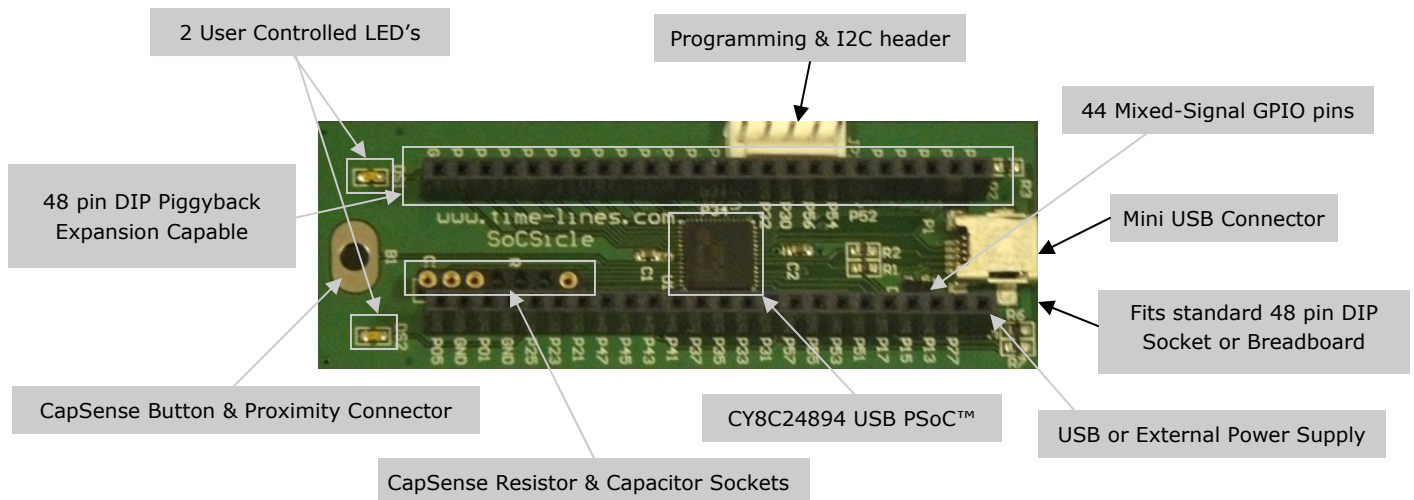
SoCSicle™ Education and Development Board

Product Datasheet

The SoCSicle Education and Development board is a versatile mixed-signal processor that is also a full speed USB device. Based on the Cypress Semiconductor CY8C24894 PSoC™ mixed-signal processor, the SoCSicle™ is designed to assist in rapid prototyping for experienced embedded developers, assist educators in teaching analog and digital theory, and provide hobbyists mixed signal development capability with minimal computer language skills required.

The SoCSicle™ design is a traditional 48 DIP form factor. It can be seated into a solderless breadboard, or 48 pin .600 DIP socket, or inserted into special function boards such as the SoCSicle™ MOBO (motor control board) designed for controlling small robots and motors through the use of the PSoC Express™ Design Studio. It also has full piggyback capability for upcoming add-on project boards, sensor boards, and co-processing boards.

SoCSicle™ has built in ADC, DAC, Multiple Clocks, I2C, SPI, and Sensor Drivers support, and requires no external clock crystal. A partial listing of driver support is listed later in this document.



SoCSicle Beginner's Kit Contents

- SoCSicle™ Development Board & Getting Started CD
- "The Beginner's Guide to PSoC Express" book and project CD
- CapSense™ Resistors and Capacitors that accompany SoCSicle Project CD.
- PSoC Express™ Design Studio for rapid prototype and development.
- PSoC Designer™ Development IDE
- HI-TECH 45 Day Evaluation and LITE Compiler
- Eagle CAD 4 LITE Version
- B2 SPICE Circuit Analysis Tool LITE Version
- Discount Coupons good for discounts on the purchase, upgrade, or maintenance of HI-TECH PSoC Professional Compiler.

Included Projects

State machines, *If then Statements*, *If then Else Statements*, *I2C Master Interface*, *I2C Slave Interface*, *Light Sensors*, *CapSense™ Button & Proximity Detection*, *Temperature Sensors*, *Serial E2Prom Interfaces*, *Pulse Width Modulation*, *LED's*, *Seven Segment Displays*, *LCD Displays*, *I2C Displays*, *Distance Detection*, *Potentiometers*, *Voltage Inputs*, *Frequency Inputs*, *Frequency Output*, *Digital Inputs*, *Banked Outputs*, *USB Interfacing*, and much, much, more...