CY8CKIT-050 PSoC5® Development Kit
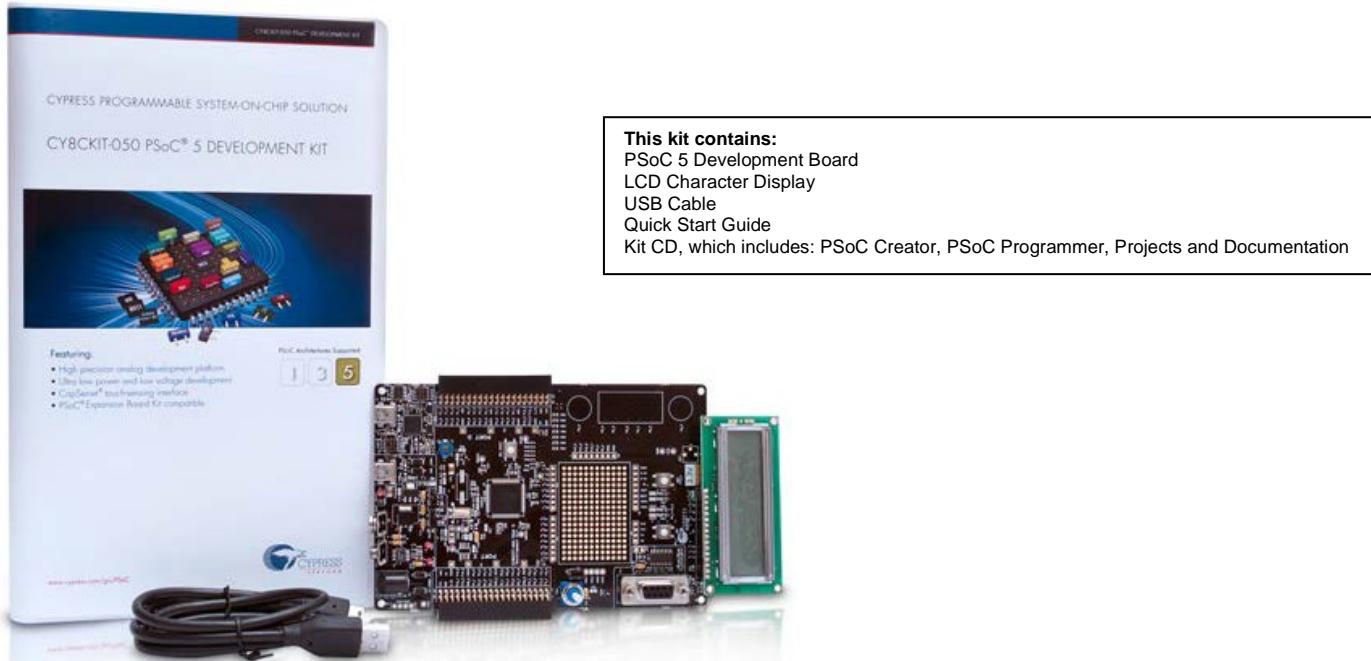
Last Updated: 06/06/2011

Cypress's PSoC programmable system-on-chip architecture gives you the freedom to not only imagine revolutionary new products, but the capability to also get those products to market faster than anyone else. This kit enables you to evaluate, develop and prototype high precision analog, low-power and low-voltage applications powered by Cypress's CY8C55 high precision analog device family. Additionally, this kit supports the PSOC Expansion Board Kit ecosystem as a compatible host platform.

This kit is for PSoC 5 development specifically.

This kit is specifically designed for analog performance. The noise floor on these kits is very low. Care has been taken to separate the analog and the digital domain, separate regulators are also available. Separate ground planes are provided. We have achieved ENOB very close to 20 bits on this kit. Provision has been provided to add an external precision voltage reference if needed.

Besides the analog, this kit is also meant to demonstrate the low power operation of PSoC5. The PSoC5 chip is soldered to the board, this way the leakage currents are reduced significantly compared to the CY8CKIT-001. Special terminals are provided to enable the boost converter operation without many modifications. Jumpers have been provided to remove power to RS232 converter, Potentiometer and to have a single regulator for Analog and digital domain and evaluate the low power operation of PSoC5.

It has got an onboard programmer (Cypress U S B chip based), which lets you program PSoC3/PSoC5 without connecting Miniprog3. Provision has been provided to program using Miniprog3 as well.

> **This kit contains:**
> PSoC 5 Development Board
> LCD Character Display
> USB Cable
> Quick Start Guide
> Kit CD, which includes: PSoC Creator, PSoC Programmer, Projects and Documentation

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