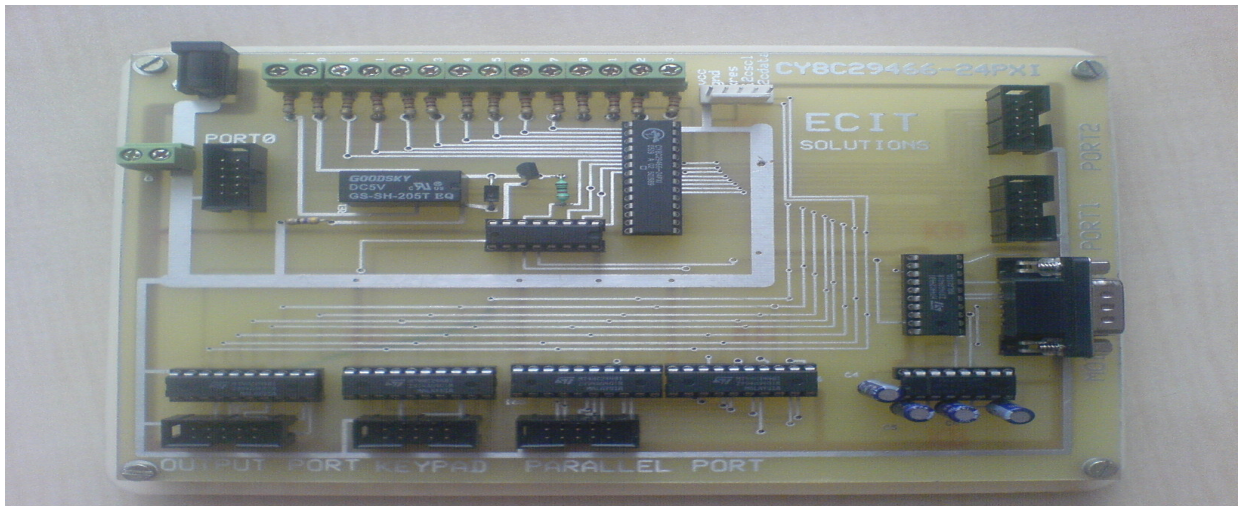
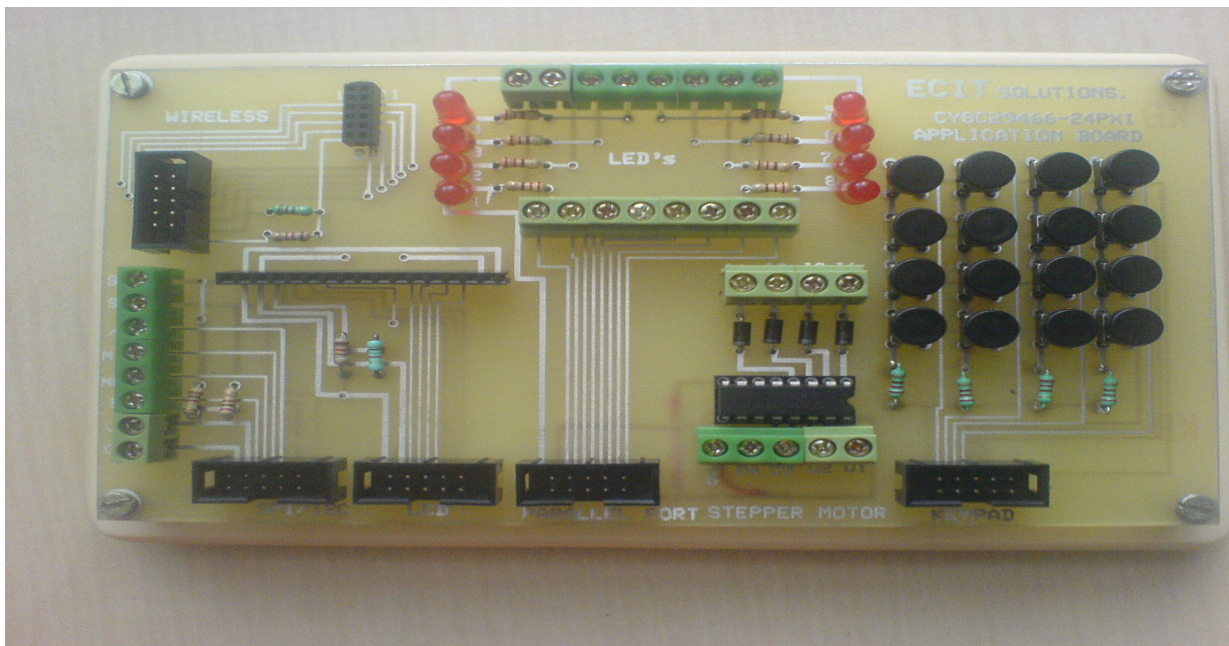


## PSoC Development Kit



**Controller Board**



**Application Board**

## Overview

Cypress' **PSoC mixed-signal arrays** are programmable systems-on-chips (SoCs) that integrate a microcontroller and the analog and digital components that typically surround it in an embedded system. A single PSoC device can integrate as many as 100 peripheral functions with a microcontroller, saving users design time, board space and power consumption.

The PSoC Developmental Kit is designed to educate the students in understanding, designing, evaluating, testing and modifying various user modules in an easy manner. This kit provides hands on practical experience on PSoC at one place and save the time and money without compromising the standard.

**Supports all PSoC Mixed-Signal Array families, including automotive viz CY8C25/26/27/29XXX devices.**

### Kit Includes:

- PSoC Controller Board
- PSoC Application Board with LCD Module, Matrix Keypad
- PSoC Designer Software CD
- 28 Pin CY8C29466-24PXI PDIP PSoC Device
- MiniProg Programming Unit
- USB 2.0 Cable
- User Manual



This inexpensive developmental kit allows a user to program PSoC devices via the MiniProg programming unit and will program PSoC devices directly on the controller board, or on other boards via a 5-pin header. This programming unit is small and compact, and connects to a PC via a provided USB 2.0 Cable.



Features:

### **Controller Board**

CY8C29466-24PXI PDIP PSoC IC

5-pin header for programming

General I/O ports (Port 0, Port 1, Port 2)

DB-9 connector with MAX 232 IC

10 pin Box type connectors for interfacing

Power Terminals for Analog applications

Buffer ICs, Relay 5VDC

Power pin for DC adaptor

### **Application Board:**

Matrix Keypad Module

14 pin header for LCD Module

LED Arrays with power terminals

Power Terminals for SPI / I2C

12 pin connector for Wireless Module

Driver IC for Stepper Motor



## **APPLICATIONS:**

1. Liquid Crystal Display Module
2. Matrix Key Pad
3. Parallel Port Communication
4. Modem/ Serial Communication
5. Serial Peripheral Interface/ I2C
6. Wireless Communication
7. Stepper Motor
8. Analog Applications

Many other analog & digital applications can be implemented by directly using the general I/O port pins which are provided in the controller board. They are

A/D Converters

Timers

D/A Converters

Counters

Filters

PWMs

Amplifiers

UART Module

Comparators

DTMF Dialer



Embedded Core  
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