

# HelloWorld\_Blinky Example Project

## 1.00

## Features

- Prints “Hello World” on LCD.
- Blinks LED in hardware.

## General Description

This project provides an introduction into the process of creating a design in PSoC Creator. It accomplishes the simple tasks of printing “Hello World” on an LCD and blinking an LED using a PWM component.

## Development Kit Configuration

The following configuration instructions provide a guideline to test this design. For simplicity, the instructions describe the stepwise process to be followed when testing this design with the PSoC Development Kit (CY8CKIT-001) board, but can be generalized for the PSoC 3 Development Kit (CY8CKIT-030) and PSoC 5 Development Kit (CY8CKIT-050) as well.

1. Set LCD power jumper J12 to ON position and leave the rest of the board at default configuration.
2. Connect P0\_0 to LED1 on the development board.
3. Ensure that the Character LCD is connected to header P18 on the development board.

## Project Configuration

The TopDesign schematic looks as shown in Figure 1 below. The Character LCD is configured in its default mode. The PWM is connected to a 250 Hz clock and its period is set to 255 to give an approximate 1 Hz PWM output. The compare value is kept at 127 so that the PWM output has a 50% duty cycle. See Figure 2.

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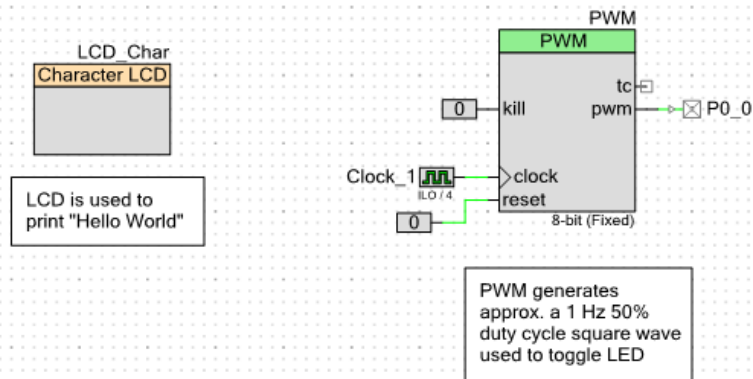


Figure 1. TopDesign schematic

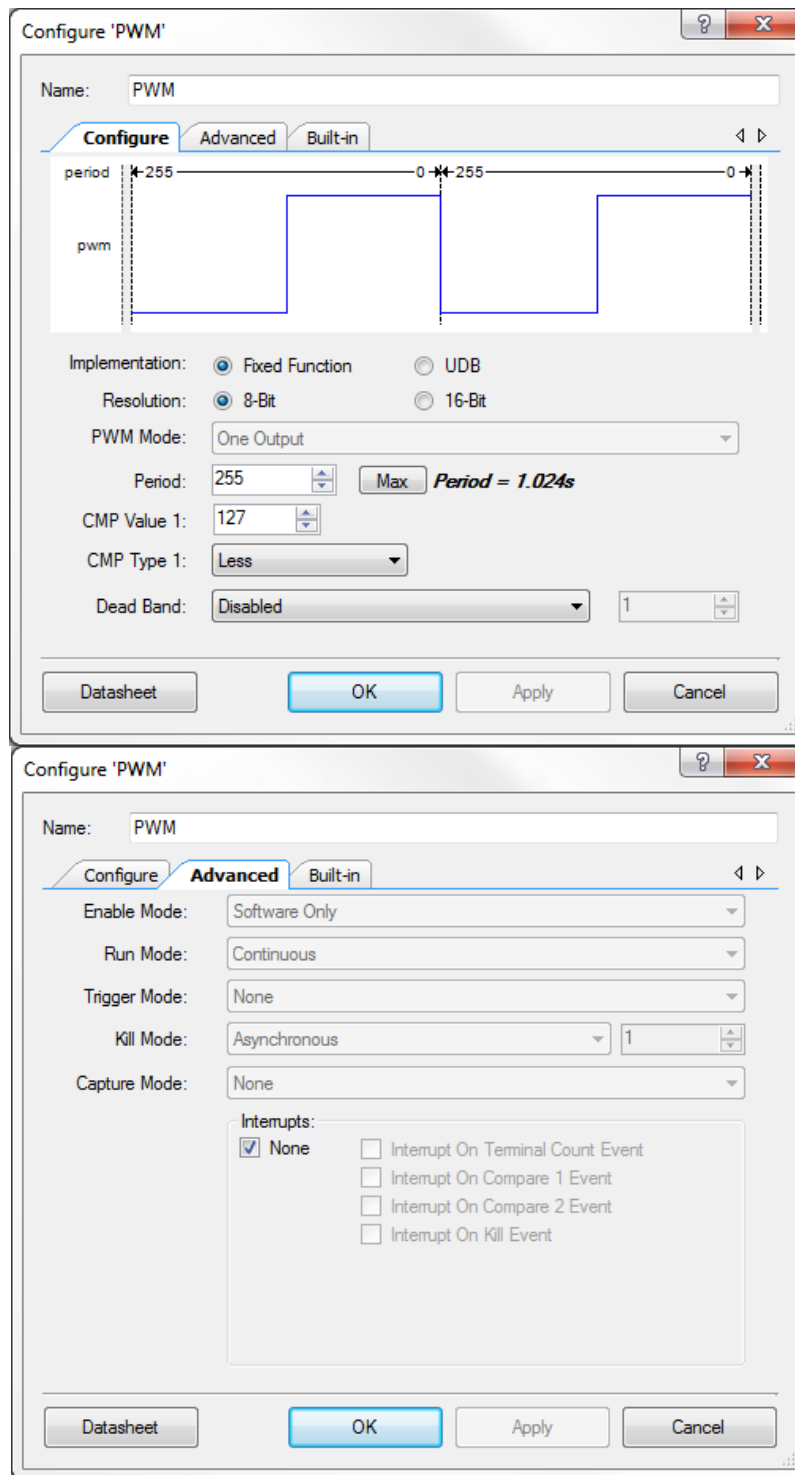


Figure 2. PWM component configuration

## Project Description

In the main.c file, the PWM and LCD components are started and “Hello World” is printed on the LCD.

## Expected Results

“Hello World” is displayed on the LCD and the LED blinks at approximately 1Hz.



Figure 3. Expected output on LCD

## Related Material

### Example Projects

- Timer
- Counter
- ADC\_DMA\_VDAC

### Application Notes

- [AN54181 - PSoC® 3 - Getting started with a PSoC 3 design project](#)

### Training

- [PSoC 3 and PSoC 5 101: Introduction to the Architecture and Design Flow](#)
- [PSoC 3 and PSoC 5 102: Introduction to System Resources](#)
- [PSoC 3 and PSoC 5 103: Introduction to Digital Peripherals](#)



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