

## Pic Microcontroller 16f877a Pin Diagram Explanation

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### **Pic Microcontroller 16f877a Pin Diagram**

In this tutorial we are using PIC 16F877A for demonstrating PWM generation using CCP module. PIC 16F877A contains two CCP modules. Circuit Diagram - Using internal PWM Module of PIC. In the below circuit four switches are provided for controlling the Duty Ratio of PWM generated by two CCP modules of the PIC Microcontroller.

### **Generating PWM with PIC Microcontroller - MikroC Pro**

Note: Older programmers that are labelled Serial or Parallel both send serial data to the PIC microcontroller through the PIC ICSP circuit. The 'Serial' or 'Parallel' description refers only to the interface used from the PC to the PIC ICSP circuit. Modern programmers such as the PicKit2/3 use a USB port.

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## **PIC ICSP In Circuit Serial Programming**

SPWM (Sinusoidal pulse width modulation) using pic16f877a: In this article I will discuss how to use microcontroller to generate sinusoidal pulse width modulation? how to use SPWM signal as a gating signals to MOSFETS of H bridge to get neat and clean sine wave output from h bridge after using LC filter?

## **SPWM generation using PIC16F877A microcontroller**

About MPU-6050. MPU-6050 is a chip manufactured by Invensense which combines 3 axis accelerometer and 3 axis gyroscope with an on-board digital motion processor. It also includes a embedded temperature sensor and an on chip oscillator. It is very accurate and consist of analogue to digital conversion hardware for each channel thereby capturing x,y,z channels at the same time.

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