# Pic16f877a Microcontroller Test Solutions

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**PIC microcontroller PICF877A ADC Tutorial using MPLAB and XC8**

The microcontrollers program was simulated by using M-IDE software as shown in Fig.2. MIDE-51 is freeware Integrated Development Environment (IDE) for MCS-51 microcontroller. The full package already comes with: Assembler: ASEM-51 by W.W.Heinz (v1.3) C compiler: SDCC: Small Device C Compiler (v2.5.4)

**PIC16F877A-I/P Microchip Technology | Mouser**

PIC16F877a is a 40-pin PIC Microcontroller and is used mostly in Embedded Projects and Applications. Few of its features are as follows: It has five Ports on it starting from Port A to Port E. It has three Timers in it, two of which are 8 bit Timers while 1 is 16 Bit.

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Interfacing ADC0808 with 8051 Microcontroller ADC in PIC Microcontroller PIC16F877A: There are many types of ADC available and each one has its own speed and resolution. The most common types of ADCs are flash, successive approximation, and sigma-delta. The type of ADC used in PIC16F877A is called as the Successive approximation

ADC or SAR in ...

**PIC Microcontroller Projects and Tutorials**

The PIC microcontroller PIC16f877a is one of the most renowned microcontrollers in the industry. This microcontroller is very convenient to use, the coding or programming of this controller is also easier. One of the main advantages is that it can be write-erase as many times as possible because it uses FLASH memory technology.

PIC16F877A-I/P Microchip Technology | Integrated Circuits ...

Microcontroller PIC16F877A is one of the PICMicro Family microcontroller which is popular at this moment, start from beginner until all professionals. Because very easy using PIC16F877A and use FLASH memory technology so that can be write-erase until thousand times.

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It uses the popular PIC 16F877A microcontroller. The temperature sensor is DS18S20. The DS18S20 communicates through the one-wire protocol. The PIC16F877A communicates with the DS18S20 with the one-wire protocol and gets the information for the temperature and displays it on the LCD. The temperature range of this circuit is -55'C to +125'C.

*Battery Monitoring System using Microcontroller*

Servo Motor Control With PIC Microcontrollers

There are different ways to generate the 50Hz PWM signal required by the servo motor using a microcontroller. Speaking about PIC microcontroller, the first thing that should pop-up in your mind is the CCP PWM hardware module inside the microcontroller itself.

**PIC16F877A - Microcontrollers and Processors**

Download PICSimLab - PIC Simulator Laboratory for free. PICSimLab is a realtime emulator for PIC and Arduino. PICSimLab is a realtime emulator of development boards with integrated MPLABX/avr-gdb debugger. PICSimLab supports some picsim microcontrollers and some simavr microcontrollers.

Introduction to PIC16F877a - The Engineering Projects

Interfacing DHT11 with PIC16F877A for Temperature and Humidity Measurement. Temperature and Humidity measurement is often useful in many applications like Home Automation, Environment Monitoring, Weather...

PIC16F877A Introduction & Features | EmbeTronicX

PIC16F877A Newer Device Available PIC16F18877. Status: In Production. View Datasheet View Comparisons View CAD Symbols Features: 2 PWM 10-bit 256 Bytes EEPROM data memory ICD 25mA sink/source per I/O Self Programming Parallel Slave Port

**PICSimLab - PIC Simulator Laboratory download ...**

If the PIC17C42 is used in extended microcontroller mode and if all the code resides on-chip, then the cost may further be reduced by using only one external SRAM instead of two. The block diagram is shown in Author: Amar Palacherla Microchip Technology Inc. Figure 4. The 16-bit data stored in the external RAM is organized as low byte followed ...

**Temperature sensor using PIC16F877A microcontroller**

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### Tahmid's blog: Temperature Sensor (DS18S20 + PIC16F877A)

Since RAM is temporary data, its content is always erased when the microcontroller is shut down. Use of Flash Memory in Microcontrollers. Flash Memory is a type of non-volatile memory that, unlike RAM, retains its data for an extended period, even if the microcontroller is turned off. This keeps the saved program that you might have uploaded to ...