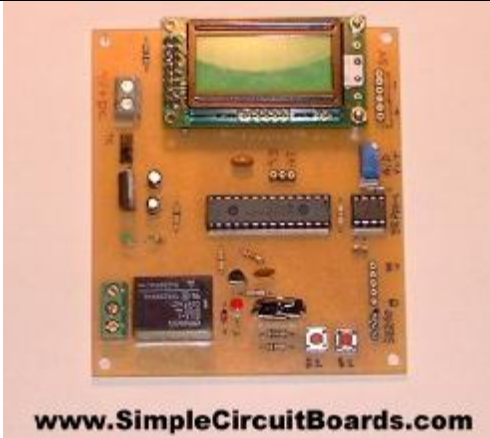


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Demo Board for PIC16F876A



Are you just learning how to program PIC Microcontrollers with PICBasic Pro? Here is a nice demonstration board that will show you how to use a PIC16F876A to control an LCD, servo motor, and relay as well as how to perform and display 10-bit A/D conversions and use an EEPROM. This is a board that I wish I had when I was first getting started. Comes with example software in PICBasic Pro. Requires 9-24VDC at 200mA (min).

Details:

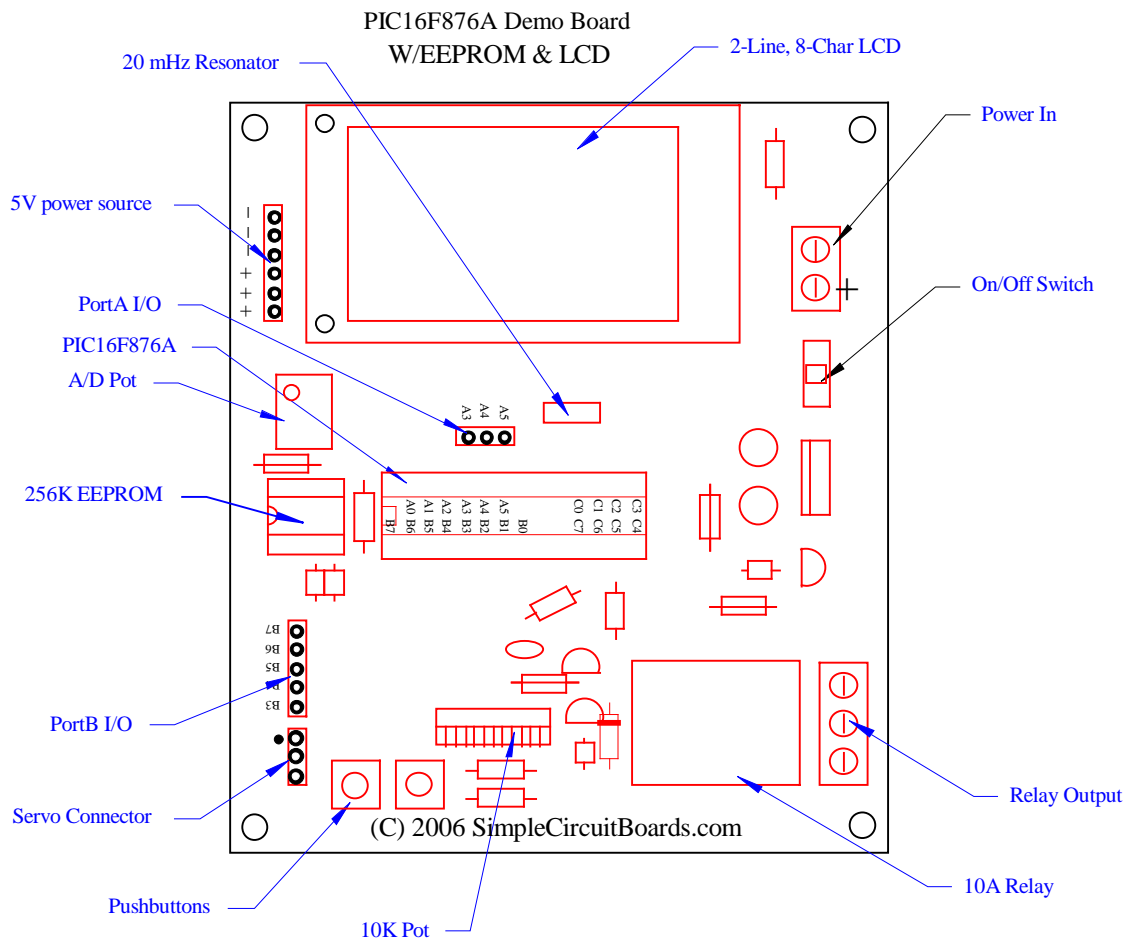
As mentioned above, this board was designed to demonstrate how to do a lot of different tasks with the PIC16F876A. The board comes with the microcontroller, a 256K EEPROM and a 2-line X 8-char. backlit LCD. With this board, you can learn how to:

- Control the onboard 10A relay
- Read a pushbutton
- Control a servo motor (servo not included)
- Display information on the LCD
- Do A/D conversion (10-bit)
- Store and retrieve data on an EEPROM
- Store and retrieve data from PIC memory

Included with the board are example programs in PICBasic Pro that will show you how to do all of the above. One program shows you how to read a voltage (0 – 5V supplied by on-board potentiometer) and display the decimal 10-bit result (0-1024) and convert it to mV (0-5000). Another demonstrates how to control a servo in real time, log the motion to the on-board EEPROM and then replay the servo motion from memory. You can modify these programs for many different purposes. The I/O pins not used for the demonstrations are available for you to experiment with.

Board Layout:

Below is a diagram showing component placement.

**Specifications:**

- Input Power: 7.5 – 24 VDC
- Current Draw: 200 mA
- Board Dimensions: 3.5 x 4.0 inches

Disclaimer:

These boards are designed for educational use only. In no circumstances should these circuit boards be used in critical situations where failure could mean injury or property damage.

Please check out the other circuit board designs that I offer at www.SimpleCircuitBoards.com. Here are just a few examples:

- Thermocouple Amplifiers
- 8-Bit Digital to Analog Converter
- DC to DC Converters
- TTL-Driven Relay Boards – 1 Amp and 10 Amp

- Voltage Amplifier Board
- Water Level Monitors and Control Boards
- Motor Control Boards
- Programmable Relay boards
- Programmable Servo Controllers

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