

Embedded Systems Interfacing Assignment 06

Due: 17 October 2013

Problem 01: PIC24F0KA200

Find the data sheet for the PIC24F04KA200. Answer the following questions.

1. How many pins does this PIC have?
2. For every application which pins need to be connected? For example, which pins supply power to the chip?
3. Identify which pins can be used as inputs, either analog or digital.
4. Identify which pins can be used as outputs, signifying whether the pin is digital or analog.

Problem 02: Blinky

Write a program that uses the *PORTA* pin *RA0* to cause an LED to blink at a frequency of $2Hz$. To which pin will you connect the LED? Can you connect the LED directly to this pin? How should you connect the LED? Compare this program (for the PIC24F04KA200) to a similar program to accomplish the same task for the PIC24FJ128GA010.