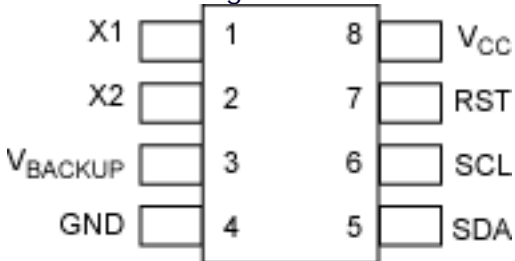


APPLICATION NOTE 3482

# Interfacing a DS1388 Real-Time Clock with an 8051-Type Microcontroller

*Abstract: This application note demonstrates how to interface a DS1388 to an 8051-type microcontroller with software written in C. Basic interface routines are illustrated by example code. The microcontroller used in this example is the DS2250.*

## DS1388 Pin Assignment



## Description

This application note demonstrates how to interface a [DS1388](#) real-time clock to an 8051-type microcontroller and provides example code showing basic interface routines. The microcontroller used in this example is the [DS2250](#), and the software is written in C.

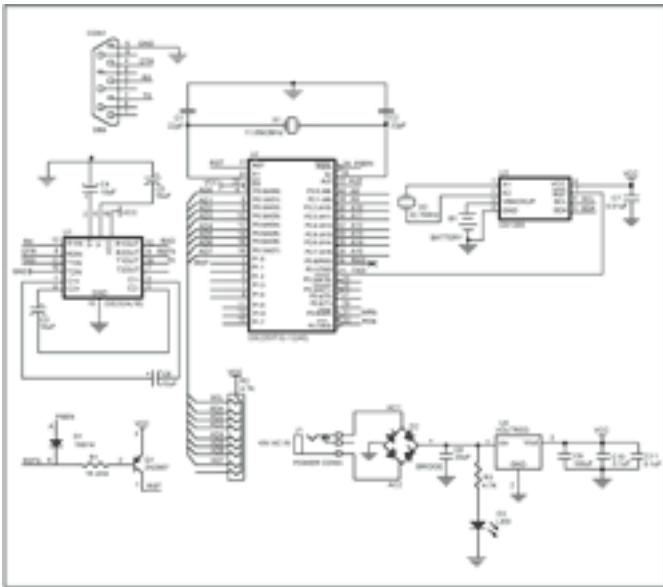
## Operation

The program uses two general-purpose port pins on the micro to operate as a master on the I<sup>2</sup>C bus. The DS1388 operates as a slave device on the same bus.

The software is shown in **Figure 1**. A schematic of the circuit is shown in **Figure 2**.

*Figure 1. Program Listing*

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Figure 2. Schematic.

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