# App Note 3334: Interfacing a MAX6900 RTC with an 8051-Type Microcontroller

*This app note provides example hardware and software for interfacing the MAX6900 with an 8051-type microcontroller.*
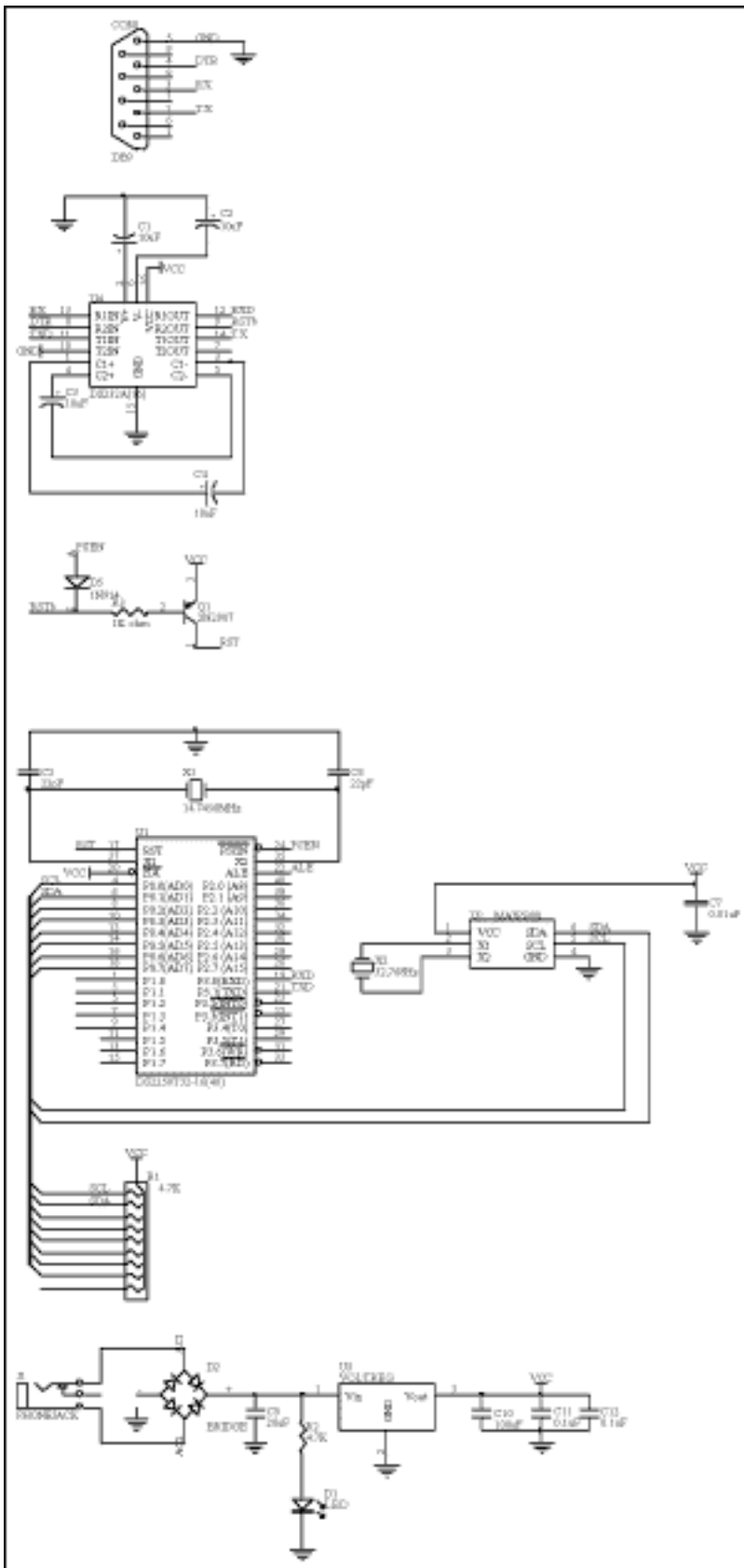
## Description

This app note shows how to interface a MAX6900 $I^2$C-Compatible RTC (real-time clock) to an 8051-type microcontroller (µC) 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 $I^2$C bus. The MAX6900 operates as a slave device on the same bus.

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

*Figure 1. Schematic of Daughter Card*

**Figure 2. Code Listing** (Download ZIP file)

**More Information**

MAX6900: QuickView -- Full (PDF) Data Sheet -- Free Samples