

题 目： 基于单片机的电脑机箱散热模块
 ontrol

摘 要

基于 AT89C52 单片机来实现计算机智能散热系统。根据本次设计的要求，系统需要兼顾稳定性、准确性和可靠性等原则。主控芯片采用 AT89C52 单片机，因为该芯片较为熟悉且功能齐全，温度测量部分选择 DS18B20 温度传感器来作为本次设计的温度传感器，与 PC 之间的通讯选择 RS-232 通信接口。采用模块化的设计思路进行本次设计，既对系统各部分按照各自的功能进行模块划分。当温度过高时，自动进行处理，实现智能化控制。

关键词 AT89C52 DS18B20 RS-232 模块化 智能化

ABSTRACT

Based on AT89C52 MCU to realize the computer intelligent cooling system. According to the design requirements, the system needs to take into account the principles of stability, accuracy and reliability. The main control chip USES AT89C52 microcontroller, because the chip is familiar with and has complete functions. DS18B20 temperature sensor is selected as the temperature sensor of this design in the part of temperature measurement. For communication with PC, rs-232 communication interface is selected. The modular design idea is adopted to carry out this design, which divides each part of the system into modules according to its respective functions. When the temperature is too high, automatic processing, intelligent control.

KEYWORDS AT89C52 DS18B20 RS-232 modules Intelligent

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