

题目：基于指纹识别的上课点名系统

**Title: Student Attendance System Based on
Fingerprint Identification**

摘 要

该系统以 STM32f103zet6 单片机作为系统的核心,由指纹模块、LCD 显示屏模块、RTC 模块、W5500 网卡模块、SD 卡模块等模块组成。该系统实现了: W5500 网卡模块通过网线连接路由器,分配 MAC 地址, IP 等实现上网功能,实时更新 SD 卡内的指纹库; 指纹模块采集指纹,并将指纹信息与 SD 卡内的指纹信息进行对比; 点到的时间由 RTC 模块提供; 刷指纹成功与否, 时间等信息通过 LCD 模块显示; 一节课的点到信息包括学生的姓名、点到的时间、任课的老师、是否迟到或者旷课等。这些信息先保存到本地,统计结束则通过 W5500 网卡模块发送至服务器。

关键词: STM32f103zet6 单片机; W5500 网卡; SD 卡; 指纹

Abstract

The STM32f103zet6 SCM is the heart of the NC Power, which is made up of Fingerprint module, LCD display module, RTC module, W5500 network card module, SD card module and so on. The system realizes: W5500 network card module connects router through network line, distributes MAC address, IP, etc. to realize online function, and updates fingerprint database in SD card in real time; fingerprint module collects fingerprints and compares fingerprint information with fingerprint information in SD card; the time of arrival is provided by RTC module; the success of fingerprint brushing or not, the time and other information are displayed by LCD module; the point of a lesson is displayed by LCD module. The information includes the name of the student, the time of arrival, the teacher, whether he is late or absent from class, etc. The information is saved locally first, and the statistics are sent to the server through the W5500 network card module.

Keywords: STM32f103zet6 monolithic integrated circuit; W5500 network card; SD card; fingerprint

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