

题目：基于 ARM 的多功能数码相框设计

摘 要

描述了一种基于ARM-Cortex_M3核心的MiniSTM32开发板设计的数码相框，主要包含SD卡，TFT LCD液晶显示屏和MP3音频解码器，图片存储在SD上卡，通过SPI方式与STM32开发板通讯，系统从SD卡上获取图片后然后处理，最后发送到TFT彩色屏幕上显示。VS1003/VS1053解码器用跳线与开发板连接，在图片开始播放的同时播放音乐，音乐是存储在SD卡里的，被音频解码器解码之后通过耳机或者外放播放出来。以此实现数码相框的基本功能。

关键词：数码相框；ARM-Cortex_M3；MP3 音频解码器；TFT 液晶显示；SD 卡

Abstract

Describes a digital photo frame based on the ARM-Cortex_M3 core MiniSTM32 development board design, mainly comprising SD card, TFT LCD screen and MP3 audio decoder, picture stored on the SD card, communication with the STM32 development board through SPI, the system obtains the picture from the SD card and then processes it, and finally sends it to the TFT color screen display. The VS1003/VS1053 decoder is connected to the development board with a jumper to play music while the picture starts playing, the music is stored in the SD card, decoded by the audio decoder and played out through headphones or external releases. In order to achieve the basic functions of digital photo frame.

Key Words: Digital photo frame;ARM-Cortex_M3;MP3 audio decoder;TFT LCD display;SD card

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