

Design of an MP3 player on STM32 kit via USB

Nguyen Xuan Tu

Abstract: This is a capstone project focused on designing and implementing an MP3 player system based on an STM32 microcontroller kit connected via USB. This project aims to meet the practical demand for the widespread use of digital music today. The main objective is to build an efficient solution for converting and storing MP3 audio files in digital form, while providing the ability to play music directly through the system from a USB file. The research method combines theory with experimentation to ensure the high applicability of the product. The expected results will contribute to the development of digital audio technology and enhance the user experience in the field of digital entertainment.

Keywords: STM32, USB, MP3 player, system design, audio digitization