

# Abstract

This system is developed in Altera Quartus II software and coded in Verilog HDL. Altera DE2-70 offers the free design architecture and the flexible applications for the designers in every way.

This project uses “Altera DE2-70” development panel, LTM touch screen, and “Quartus II” software to design electronic book

The content of the design includes : the book change, RGB image display, LFSR Divider...etc.

Besides, it takes advantage of “Nios II” to Install the game screen (background, character ... others), and use Mirco SD card to burn into the game's music. And the picture is design bu “Corel Painter”

To fulfill the requirement of real-time image processing, Verilog-HDL language is used to write the control program and implement the design by hardware.