

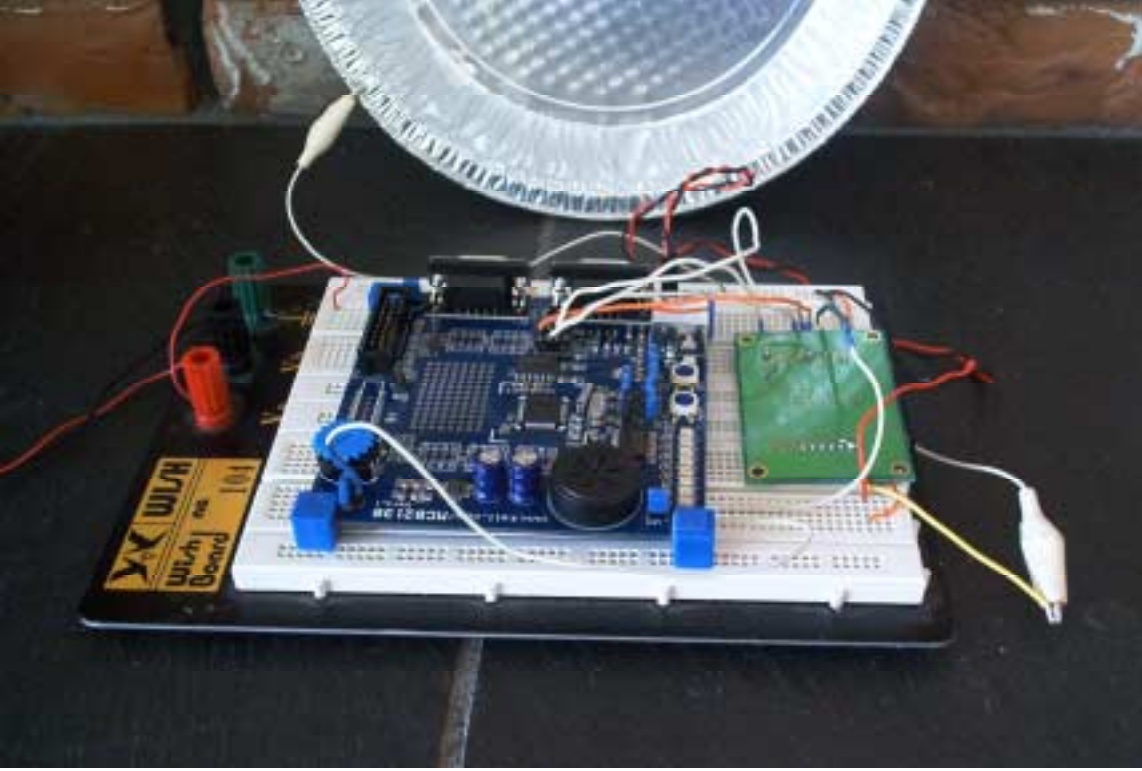
Abstract

The AR1794 project uses the Keil MCB2130 Microcontroller Board and a Freescale 33794 eFIELD imaging device to implement proximity detection with on-board digital audio playback.

It uses the Digital/Analog Conversion capabilities of the LPC2138 to play back several audio files stored in the on-chip flash memory of the MCU.

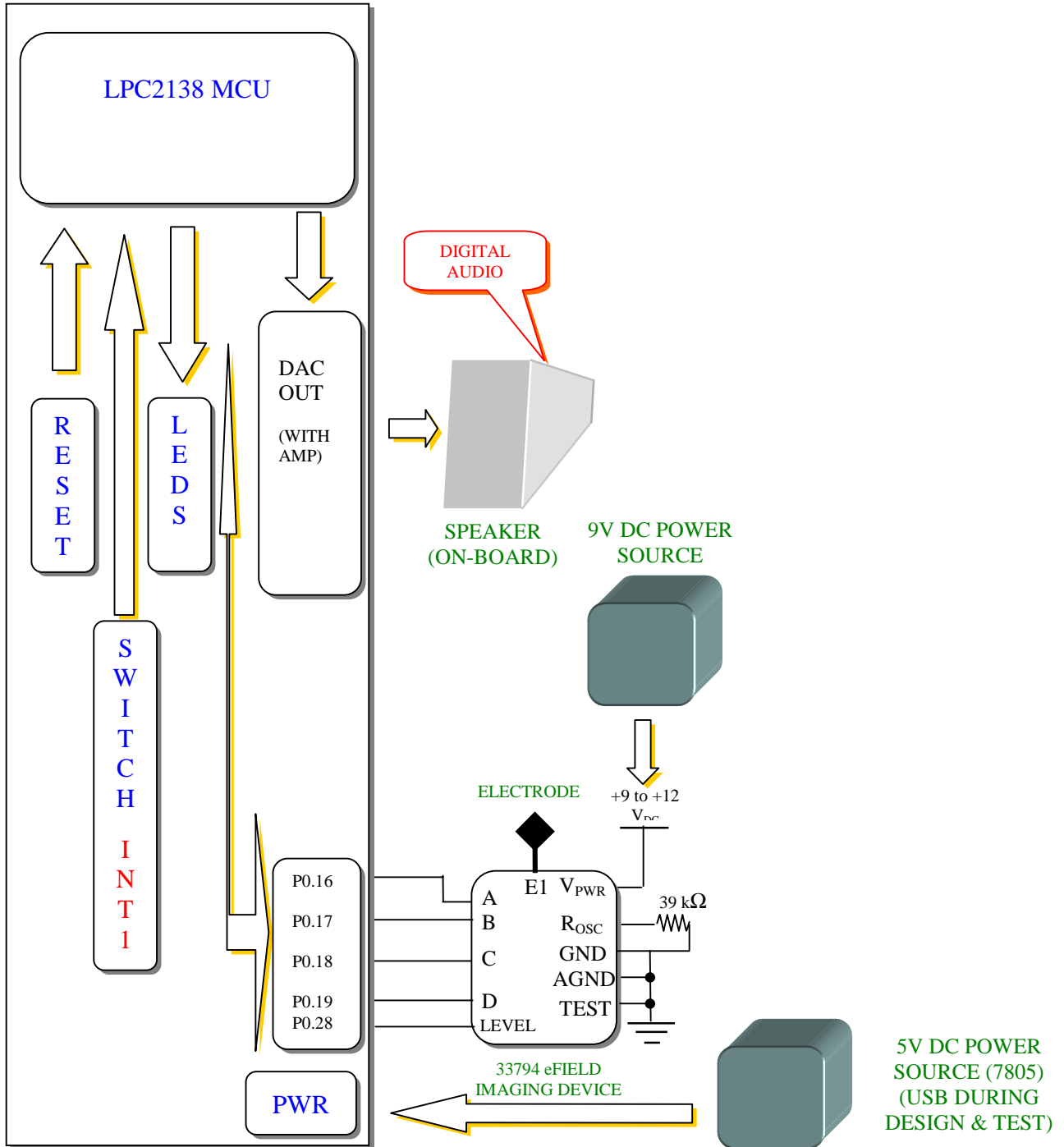
The flash is organized into 8 blocks of 64KB each allowing each block to store 4 seconds of 16-bit PCM-encoded audio data at 8kHz.

Wave files are stored into a Hex-386 file with the BIN2HEX converter.

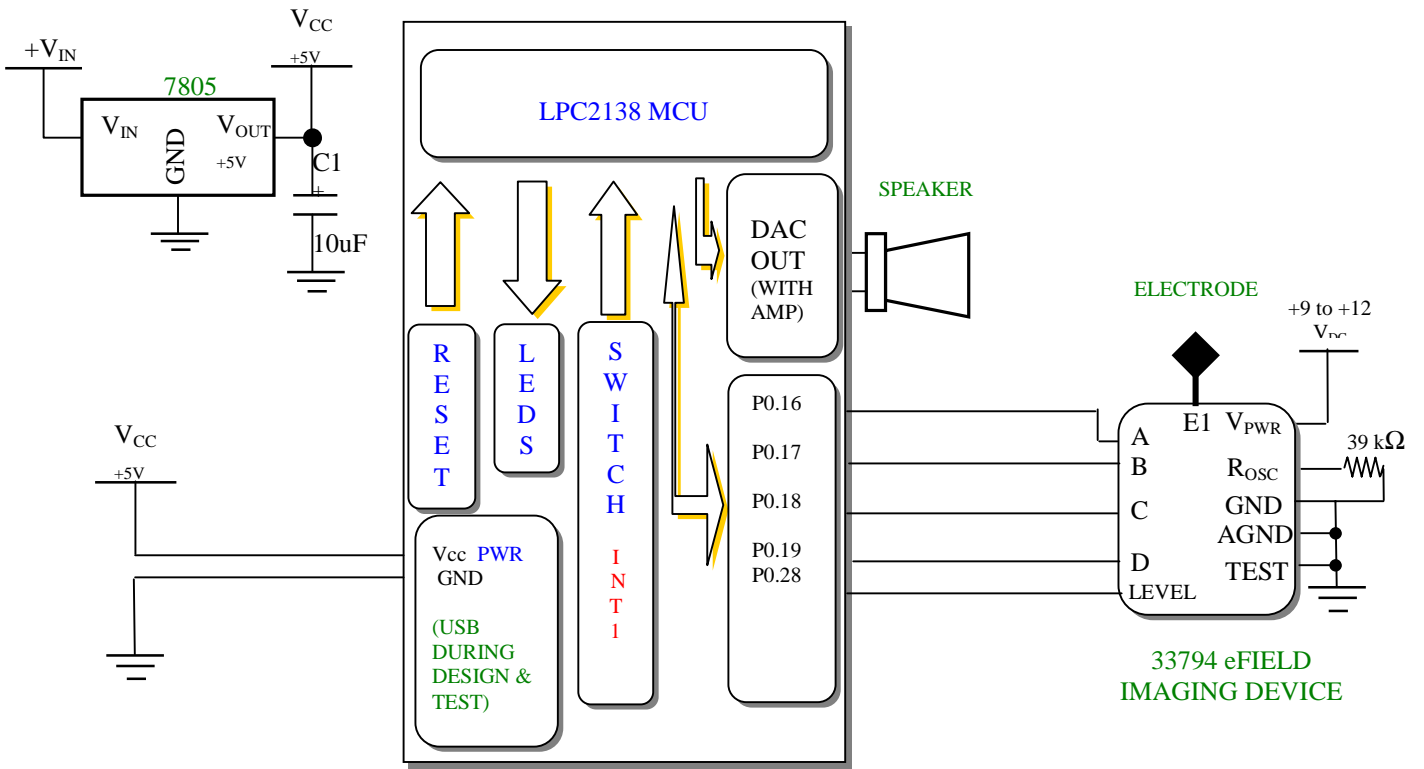


AR1794 – HARDWARE [block diagram]

MCB2130 BOARD WITH
LPC2138 MCU



AR1794 – HARDWARE [schematic diagram]



MCB2130 BOARD
WITH LPC2138
MCU