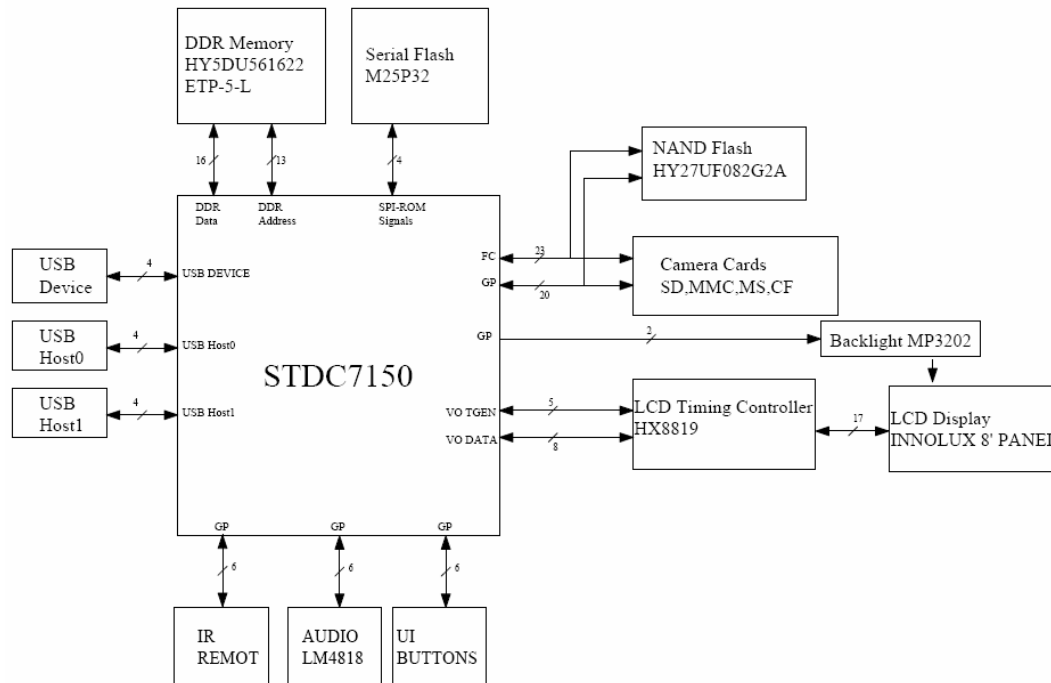


Digital photo frame operational principle



Digital photo frame was made up of several parts including: cpu, ddr, nor flash, nand flash, t_con, led panel, card reader, USB interface, remote control and power supply.

The power supply will power each part for them working, voltage including 5.0V, 3.3V, 2.5V, 1.8V, All the working instruction is programmed in Nor flash. After power supply powers other parts for them working, CPU will get the instruction from Nor flash and work accordingly. For example, based on the Nor flash instruction, CPU will get and decode mp3 file from NAND FLASH, transferring to RGB and PWM signals. The RGB signals will be programmed by T_CON and then will be displayed on LED panel. And the RGB signals will be transferred to voice signal by D/A, which will be amplified before working via loudspeakers.

Meanwhile, the ports of card readers or usb interface can make photo frame read more picture files and mp3 files from the capacity device. Besides, USB interface can be plugged into by the USB wireless card, the function of the transferring signals of which will enable the frame be connected to the wi-fi internet.

The end-users can operate digital photo frame via button control or remote control.

For wireless network card, the working frequency is 40MHz, frequency modulation is OFDM, the frequency of antenna emission is 2.4120-2.4835GHz, the attenuation coefficient of antenna is 2db.