

## Operation 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, 12V, 1.2V, all the working instruction is programmed in nor flash. After power supply power so their parts for them working, CPU will get the neither 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 program 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 car readers or USB interface can make photo frame read more picture files and video & audio files from the capacity device.

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