

## Circuit Description

This device is a small pocket-sized microcomputer that instantly converts your regular TV into a smart TV.

This device powered from USB cable to mini USB socket(con3),and the voltage is DC 5V-5.5V. multimedia playing function consists of direct playing and wireless playing;

a, Direct playing function means that MCU reading and decode the files from TF card or NANDFLASH. The MCU employs 32.768kHz and 24MHz oscillators.

b, wireless playing function means that MCU send the decoded signal to wifi module(RTL8188).The wifi module which employs 40MHz oscillator transforms the signal to 2.4GHz wireless signal and output to space via a PCB printed antenna. The WiFi RF module supports IEEE802.11 b/g/n(1T1R) standards.

Then the signals are transformed into digital video and audio signals which display on the TV via HDMI(J27) port.