

Circuit Description

The device is a small sized microcomputer that instantly converts your regular TV into a smart TV with embedded wifi and BT, Running android 4.0 OS, supporting HD MPEG2,H.264,VC-1 video decoder and OpenGL ES 2.0 and Open VG.

The voltage of the device is DC 12V.

Multimedia playing function consists of local playing and internet playing;

a, Local playing function means that MCU reading and decode the files from TF card or USB device. The MCU employs 32.768KHz and 24MHz oscillators.

b, Internet playing means that the device is connected to Internet via cat5E cable or 2.4G wireless. MCU read and decode the files from Internet, then send the decoded signal to HDMI port.

This device employs RK903 RF module. This module employs 32.768KHz and 26MHz clocks.

RK903 is the combo module for IEEE 802.11 b/g/n Wireless LAN with Bluetooth 4.0 .

It comprises single chip IEEE 802.11 b/g/n MAC/Baseband/Radio with integrated Bluetooth 4.0.

The Bluetooth 4.0 only employs GFSK modulation with 1Mbps transmission rate. It is only DTS device.

It does not support 4DQPSK and 8DPSK modulations.