

Wireless XGA TV Box Operational Description

TV5600 is wireless transceiver for TV or AV to VGA transmitting. It consists of transmitter(TXV2428) and receiver(TRV5600).

Main principle of TV5600 consists of two parts:

The 1st part is AV transmitting: AV signal which was converted from CATV signal by tuner and intermediate frequency amplifier or external AV1 & AV2 signal is transmitted by CD4053 which is controlled by single chip EM78P447 to 2.4G transmitting module of TRV5600. 2.4G receiving module will convert the received signal to AV signal and then convert to VGA signal by IC of AV319. What's more, external input signals such as AV, Y/C, YPbPr can also be converted to VGA signal by IC of AV319.

The 2nd part is infrared remote feedback: remote control signal come from the user will be converted to digital signal by receiver TRV5600. Then the converted digital signal will be transmitted by ASK module of 433MHz after sampling coding of IC of AV319. 433MHz receiving module of TXV500 will demodulate the remote signal and then single chip EM78P447 will decode it. At last, the remote signal will be transmitted to infrared signal transmitting equipment.