

WIRELESS A/V Transmitter&Receiver Operational Description

GM2400 is wireless tranceiver for AV to AV transmitting. It consists of transmitter(TXV2400) and receiver(TRV2400).

Main principle of GM2400 consists of two parts:

The 1st part is AV transmitting:external AV1 & AV2 signal is transmitted by CD4053 which is controlled by single chip EM78P447 to 2.4G transmitting module. 2.4G receiving module will convert the received signal to AV signal for AV input equipments such as TV set and so on.

The 2nd part is infrared remote feedback: remote control signal come from the user will be converted to digital signal by receiver TRV2400. Then the converted digital signal will be transmitted by ASK module of 433MHz after sampling coding of EM78P447. 433MHz receiving module of TXV2400 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.