

Circuit description

8553T

8553T工作原理包括发射与接收两个过程。主控芯片 SN93331 会把放大的声音模拟信号进行数模转换，连同镜头芯片 GC0308 出来的图像数字一起打包后，把数据传送调制/解调电路 UR2 调制成射频信号，经过 SST12LP 放大电路及滤波 LC 电路后，从天线发送出去。

一旦相应的接收器收到这个信号，会进行核对编码后，返回应答信号给 8553T。

8553T 收到应答信号后，经过滤波及低噪放大（BFG425）处理，然后经过解调（UR2）进入主控识别，若识别正确后，8553T 会继续发送声音、图像信号。

There are transmitting and receiving procedure in 8553T working flow. First, MCU-SN93331 will quantify the amplified sound signal, pack them with digital video signal from-GO0308, then send to modulating/demodulating circuit(UR2) in order to corresponding RF signal. The signal will be amplified by SST12LP and go through filter LC, then emit by antenna.

Receiver will verify data and acknowledge 8553T once signal is received. If 8553T got the acknowledging signal, then signal will be preceded with filtering and low noise amplifying (BFG425). After that, signal will go on being demodulated and input to MCU to be recognized. 8553T will continue to transmit sound, video signal if correct.