

Circuit Description for SV-01-TX 2.4G Wireless Transmitter

The SV-01-TX is separate into two parts:

1. Transmitter control Portion
2. 2.4G RF transmitter module

1. Transmitter control portion

This portion is mainly for power supply circuitry and signal path.

The video and audio signal enter the PCB through the RCA connectors and then pass through the control PCB to the 2.4G transmitter module.

The power on/off switches on the control PCB control the power supply for the product.

The 4 selection slide switch on the control PCB allows user to select the right channel frequency and pass the channel selects information to the RF transmitter module.

2 2.4G RF transmitter module

The core of the RF transmitter module is the U1. U1 is a single chip PLL frequency synthesizer. Control data from MCU U2 is entered via the I2C bus, select the oscillator frequency. The output of U1 is feed to control the Q5,Q6 and Q8 which form a RF mixer circuitry.

Video signal from control board is passed to the RF mixed. Audio signal A1 is pass to a modulate circuit Q1 and Q2, which modulate the A1 audio signal to a 6Mhz carrier. An optional audio channel A2is pass to a modulate circuitry Q3 and Q4 which modulate the A2 audio signal to a 6.5Mhz carrier.

The video signal, together with A1 and A2 signal are entered the RF mixer and through the RF circuitry sent the signal to the dipole antenna to broadcast the signal.

STRATEGIC VISTA (BVI) LTD.

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