

Circuit Description

Q1 the 2414 MHz crystal oscillator drives the base of Q2 the final/ buffer amplifier. Summed into the same base (Q2) is the modulation provided by IC1. The output of Q2 has the matching network consisting of L1, L2, C1, and C2 that limit the harmonic content and effect the proper coupling of the antenna to the output stage.

Antenna, Ground, and Power Source

The antenna consists of a 45cm long telescoping chrome over brass tubing. There is no external ground connection. The ground is only that of the printed circuit board. Electric current is supplied by a 12 Volt primary storage cell.

Operational Description

RCM106 wireless transmitter module intended for in 2.4GHz wireless A/V signal Sender and Receive set as RF output modulator, which converts the FM video and audio signal into the RF signal fo TV or Monitor. This device has a built in antenna. And this device can also be seemed as a portable device with the monitor and can use within 80 feet indoor or 300 feet if without obstruction. You can fixed the device on a table or wall by screwed the mounting base. To fix the device, please follow the installation. And please make sure the supervision and monitor are set at same band before in use.

Specifications:

video System	NTSC
Transmitter frequency	2.411~2.471 GHZ
Max Range	300feet
Transmitter Antenna	Directional
Transmitter Sensitivity	odbm FCC
Indoor/Outdoor	Indoor Only
Number of Channels	4
Modulation duty cycles	7:3
Frequency Control	IIC PLL
Video input Level	1Vp-p
Differential Gain	±8%
Audio Input Impedance	1.4K
A/v Signal Level Ratio	27dB
Output RF level	100mW
Video Input Impedance	1.3K
Video Modulation	3MHz
Differential Phase	±8%
Audio Modulation	40KHz
Power Consumption	DC 12V 350mA