

Description of iViewer TV Modulator

- 1 MC44BS373CA, from Freescale, programmable TV modulator works at 4MHz clock. video and audio baseband signal is modulated into a TV RF channel, from 416.25MHz to 440.25MHz.
2. 3 transistors, AT41511, AT41533, 2SC3357, is RF output circuit for buffering and isolating antenna.
3. An built-in antenna is used to transmitting TV RF signal. This antenna is has center frequency of 430MHz with bandwidth of 30 MHz.
- 4 EMC78P156, from Elan, an 8bit microcontroller to control TV modulator and set 4 TV channel, via I2c bus.
- 5 NJM2035, from NJR, modulates right and left audio signal to composite audio signal, a 15.74kHz pilot frequency is used for stereo identification.

- 6 LM358, from NSC, dual operational amplifier, for adding MPX and Pilot signal.
- 7 LM317, from NSC, linear regulator, output 5VDC.