

NOYRF835 Theory of Operation

General

This Product is Stereo Wireless Transmitter

Transmitter

ALC FUNCTION

The audio signal from Stereo Jack to U3, when the Audio Signal Level is higher than 0.7 V RMS Signal, U3 will limit the signal output.

Auto Power On /Off

The Audio Signal from the U3 pin 3, 7 to the Q3, Q4, When the Audio Signal is High Signal at 10mV, Q4 output the signal to the U5 pin 8 , U5 pin 9 output the signal to Q2,Q1 Transmitter Auto Power On. When the Audio Signal is at Lower Signal, Transmitter Auto Power Off.

Stereo Modulator

The Audio Signal from the U3 pin 3, 7 to the U2 pin 1, 18.

Frequency Modulation

U2 pin 13, 14 transmit the Audio Signal & 19KHz Pilot to adjust the VD1.

Frequency Select

SW1 Control the U5 pin 5, 6 U5 transmit the signal to the U6 pin 6 , 7 ,8

PLL V.C.O

Q5 Oscillate The 900MHz frequency from the emitter transmit to U6 pin 1 U6 pin 3 transmit the signal to control the VD1 & adjust the correct channel.

RF Amplified

Q5 emitter transmit signal to Q6, Q7 RF amplified to ANT.