

## FRS Technical Description:

### Transmitter:

The CPU programs PLL to lock tx VCO at wanted frequency when pressing Ptt key . High frequency will be enlarged by driver amp. and power amp. then will go to low pass filter and antenna switching network and to antenna. Audio signal will pass from Mic and Mic amp. to modulate to VCO.

### Receiver:

Wanted high frequency signal come from antenna ,switching network and low pass filter ,then enlarge by low noise amp. and then go to mixer with RX VCO to generate 1<sup>st</sup> IF signal to pass 1<sup>st</sup> IF filter. The 1<sup>st</sup> IF signal to mix with 2<sup>nd</sup> local OSC. To generate 2<sup>nd</sup> IF signal to enlarge by amp. and FM demod to recover audio signal. And then enlarge by audio amp. to speaker.