Operation description

Audio L and R channels are sampling at 48K rate and are represented with 16-bits respectively by A/D converter, which produces the I2S data. The I2S data then is fed to SOIC for encoding, FSK-modulation, frequency conversion, and amplification. RF signal between SOIC and antenna is separated to two paths: transmission and receiving (by two RF switches). Transmitted RF Signal from SOIC is following by a power amplifier to increase output power and transmission distance.

RF signal between Antenna and SOIC is separated to two paths: transmission and receiving (by two RF switches). Received RF Signal from antenna is fed to SOIC to perform amplification, frequency conversion, FSK-demodulation, and data decoding. Decoded data format is I2S. The I2S data (48K, 16bits) is fed to D/A converter to play back analog audio L and R channel.