

ABSTRACT

In industry music, audio effects are widely used in analog audio signal processing. For example in the use of guitar effects on electric guitar. The guitarist uses multiple audio effects to enhance sound quality. An audio effect can be divided into four types : effects audio based signal amplitude, effects audio based time delay, effects audio based distortion, effects audio based response frequency (filter digital). In the conventional audio effects used a pedal mounted on the instrument audio effects. Then how to merge multiple audio effects and enable audio effects without using the pedal as in a conventional audio effects.

On this project, designed a control system with a wireless transceiver looper. Looper is useful to assemble some audio effects. In making this tool takes the RF transceiver and microcontroller Atmega-8. RF transceiver is useful for serial communication wirelessly, so that the looper can activate wirelessly. While the microcontroller functions to process data. When the pushbutton pressed, microcontroller will execute the command to send commands via RF transceiver, looper can be activated by wirelessly.

The results of the design and realization of transceiver on the looper system, the system can work well where the transmitter can send signals wirelessly to the receiver and output on the looper in accordance with the input that has been given.

Keywords : RF Transceiver, Mikrokontroler, Looper