

ABSTRACT

Examples of development in the field of technology is the development system SDR (*Software Defined Radio*). SDR is a computing technology with computer is used as a tool to process the signal decoding, can be briefly described communication system are in the form of hardware components and controlled by computer software. Currently available hardware SDR much smaller and relatively cheap price, called RTL-SDR R2832U. SDR system implementation is intended to facilitate the communication of audio and video. Thus the system is built using the application GNURADIO and GR-DVBT on the Linux operating system for the decoding process. The function of this system is to insert information in the form of MPEG2 video format or MPEG-TS signal is captured in a specific frequency. by using a device that is capable of being a transmitter USRP. And RTL-SDR device is capable of being the receiver. The data sent decoding and RTL-SDR will decoding signal received from the USRP. The received signal will be translated into the computer and then generate output images and sounds.

Keywords: SDR (Software Defined Radio), RTL-SDR, GNURADIO, GR-DVBT, USRP.