Kata Kunci: Bluetooth 2.1, EDR, Interphone, Headset

ABSTRACT

Conversation between two or more people usually can be a saturate

deterrent when doing a job in a very long time. In riding a motorcycle for

example, sometimes a lot of people who like to communicate but do not pay

attention to the situation around. Communicate with friends or anyone even

received a phone while driving is actually not very good because it can disrupt

concentration.

The final project using Bluetooth 2.1 connection as the primary device for

receiving telephone and as Interphone (intercom). Where is the bluetooth module

as a DAC (Digital to Analog Converter), ADC (Analog to Digital Converter) and

the antenna as a bluetooth transmitter and receiver signal. Input of the analog

signal from the microphone will be processed by the ADC, while the output of the

processed digital signal from DAC will be converted into voice through the

speakers. The voltage source from the battery is processed in the output of

3.3VDC regulator where required by the module. In this final project also uses

LEDs and switches. LED is used as a sign that the module is in the process, then

the switch is used as a control volume and to turn on or turn off the module. The

switch can also be used to receive calls directly.

The output of this final project work is a device that can connected to a

mobile phone that has Bluetooth 2.1 connectivity for headsets but input sound

from microphone was not clear and devices that serve as an intercom between

rider and pillion and tools that can help motorcyclists to receive or make calls to

cellular phones. The frequency from this device is between 20Hz to 20kHz

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