

ABSTRACT

Technology is developing rapidly in the current era, along with the development of this technology, more and more research is being carried out to advance technology and human civilization. One of the research conducted is on wireless tracking systems using long-distance communication. The researchers conducted this study, one of which aims to prevent vehicle loss by monitoring the researchers' vehicles. Research on this wireless tracking system uses GPS (Global Positioning System) technology as a system to show a location and lora (Long Range) as location data transmission. Lora sends data from the Node to the Gateway and forwarded to the internet. The result of this research is a system that helps users to monitor the user's vehicle. The results of the implementation of sending data from the Node to the Gateway show that the distance is directly proportional to the data loss and the signal strength (RSSI) is weakened.

Keywords: GPS (*Global Positioning System*), lora(*Long Range*)