

ABSTRACT

At present natural disasters such as fires often occur in the capital even in the forest, usually fire notifications can only be known by each agency and do not reach the surrounding population except with the news especially from the agencies involved, making it difficult for the community to evacuate faster to avoid the disaster, From these problems raises an idea to create a fire monitoring system by using LoRa as a communication media integrated into Raspberry Pi as a data processor then the data is sent to the web using an internet connection, while sending Telegram notifications. From the results of the tests that have been done, the data is successfully sent by LoRa TX to the web if the temperature sensor exceeds 500, the system will give a notification to the telegram regarding the fire conditions in the forest. Sending data from LoRa to the web takes 10 seconds the application can display the location of hotspots.

Keywords: LoRa module, Raspberry Pi, telegram,