

## **ABSTARCT**

The technology from day to day has been able to change the pattern of human life in nearly all the earth's surface. Along with the development of human activities are increasingly mobile it also required a pattern of increasingly advanced technology and more accessible. Various innovations had offered to meet the needs of the community technology services. Nowadays television is one requirement that must be met. With the television we have actual information. So the presence of television today is not only at home but the car was there. However, because when the car in motion with a certain speed and in transit through the building or trees so that the display is not good .Television service is due to power fluctuations in receiver. So itneeded a device that uses an implementation technique that can improve the power received at the antenna recipients.

Divesitas antenna is a method that is enabled to overcome the presence of fading, where fading is a phenomenon that occurs in wireless communications that lead to lower quality of communication transfer. With this method can meet the needs of the user to communicate data packets. On the other hand the user can move by using the means of transport with particular speed and in urban areas. One of the commonly used means of transportation is a car. Where the user during the trip you want to enjoy data transfer services including driving a car at a certain speed and in urban areas are blocked by tall buildings.

In this Final project, designed and created an implementation of antenna diversity on the car that functioned to repair the power received from the television antenna. Where implementation of this diversity combiner using. With this method can improve the quality of the images on a television screen so that the display image on the screen more clearly.

Key words: diversity antenna, fading, wireless communication, user