ABSTRACT

Wifi (Wireless Fidelity) is a wireless communication technology that is widely used today, whether in offices, shopping centers and cafes. WiFi use the antenna as a receiver and sender information.

In this final project designed and realized microstrip dual-band antenna using a U-shaped slot for Wifi applications. The substrate used is FR4 with a value of relative permittivity 4.4, using Single Feed Proximity rationing techniques .To determine the dimensions of the antenna before it is realized, performed theoretical calculation and optimization process with the simulator.

For this antenna simulation process, the authors use the CST Studio Suite 2010. The results of realization showed that the antenna works at a frequency of 2.382-2.434 GHz and frequency 3.563-3.638 GHz. The radiation pattern of this antenna is a unidirectional antenna with elliptical polarization linear approach.

Keywords: Microstrip,Dual Band, Slot u, Wifi