ABSTRACT

Small size, easily fabricated and broad bandwidth are characteristics of antenna which is used for wireless applications. Microstrip antenna is an antenna that has meet the characteristics, except the broad bandwidth. In order to enhanced bandwidth, this final project investigates a technique that is used to enhance bandwidth by using identical dual patch antenna microsrtip with air gap that can work at frequency 2,4-2,5 GHz which is applied on Wireless Local Area Network. At frequency range of 2400 - 2510 MHz the appropriate measurement result is VSWR ≤ 1,5. The radiation pattern of the antenna is unidirectional and also its polarization is eliptical polarized. The reachable gain of this antenna until 12 dBi. Coaxial feed is used and HFSS v 9.2 as the simulator software at this final project

Key word : Microstrip antenna, WirelessLAN, Coaxial feed,