

ABSTRACT

Wran (wireless regional area network) is the wireless technology that provides wide bandwidth. Wran can digunaan to access the Internet at high speed. In its communication, the important part is the antenna as a signal transformer. One type of antenna being developed now is microstrip.

Microstrip antenna is the utilization of the device as a microstrip antenna. The advantages of this antenna is its small, easy and cheap manufacturing. However, the drawback is the small bandwidth. While the technology needed wran wide bandwidth so that at the end of the project using the SCFC. Cut Step Method Of Four Corners (SCFC) is a method of cutting the four corners of a rectangular path or rectangular patches to create the desired bandwidth. It is expected that this method premises VSWR is close to 1, so that the antenna can be made ultrawideband.

At the end of this project has been made planar ultrawideband antenna at 450 MHz Working Frequency - 850GHz with VSWR <2, the gain> 2 dbi, return loss <-10 dB, omdirectional radiation pattern, with elips polarization.

Keyword : Microstrip, UWB, WRAN