

ABSTRACT

WiMAX is a technological standard from Metropolitan Area Network (MAN), made as solution for limited spectrum of frequency also wired network. It had known as 802.16, introduced since 2001 by Institute of Electrical and Electronics Engineers (IEEE) and have had upgraded to 802.16e in early 2003 which support up to 75Mbps of data and covered 50km wide area.

In order to use this service, antenna is needed, which operate at it's frequency allocation. Antenna should have certain gain, correct directivities, accurate and more efficient.

This antenna have four-sided shape and two layers, called biquad antenna. It operates at 2300 Mhz - 2381 Mhz range of frequency with VSWR \leq 1,3. It is omnidirectional antenna with linier polarization. It's gain is 6.565 dBi.

Keyword : Biquad Antenna, Wimax.