We demonstrated and presented Multi-band line feed microstrip patch antenna for wireless communication application. In proposed design, we introduced quad band antenna two rectangular slot of L-shape on patch and one rectangular shape slot on ground plane of antenna. The impedance bandwidth can be tuned by changing the ground plane geometry parameters (length and/or its width). The overall size of the antenna is 24mm×22mm×0.8mm including finite ground feeding mechanism. The antenna operates in four bands which are (3.3-3.6 GHz), (4.2-4.5 GHz), (6.9-7.2GHz) and (10.1-10.4GHz). Stable Omni-directional radiation patterns in the desired frequency band have been obtained.

References


Index Terms

Computer Science    Signal Processing
Keywords

Triple band Microstrip antenna, bandwidth enhancement, line feed technique.