Abstract

The design of a simple miniaturized triple band antenna for wireless local area network (WLAN) covering 2.7/5.5-GHz operating band and worldwide interoperability for microwave access (WiMAX) application covering 3.6-GHz operating band is presented in this paper. The proposed printed-type antenna is based on a 1.6 mm-thick FR4 epoxy substrate with dimensions 25mm × 38 mm. It has a circular split-ring slot enclosed inside a rectangular patch. The inclusion of the split-ring slot and the H-shaped slot in the partial ground plane gives resonance at two additional frequencies. The characteristics of the proposed antenna have been calculated using simulation software IE3D. Simulated results are verified with measurements. Good agreement between measured and simulated results is achieved.
Circular Slot Loaded Miniaturized Triple-Band Antenna for WLAN/WiMAX Applications

References


Index Terms

Computer Science Wireless

Keywords

Circular Slot  H-shaped Slot  Partial Ground.