Abstract

A very compact microstrip fed dual band antenna is designed for WLAN and WiMAX application. The antenna offers a wide bandwidth of 1.28GHz from 2.396GHz to 3.678GHz. The antenna resonates at around 2.53GHz and 3.37GHz defined by 10dB return loss which covers WLAN (2.4GHz) and WiMAX (3.5GHz). The antenna has a rectangular patch with dual inverted L-Shaped strips and is fed by a cross shaped strip line. Defected Ground Structure is used in this antenna. The designed antenna has a small size of 18.6 X 30.1. The structure is symmetrical along vertical axis.

References

A Compact Dual Band Monopole Antenna using Defected Ground Structure

Jersey: John Wiley.
- Yazi Cao, Member, IEEE, Bo Yuan, and Gaofeng Wang, Senior Member, IEEE &quot;A Compact Multiband Open-Ended Slot Antenna for Mobile Handsets&quot; IEEE antennas and wireless propagation letters, Vol. 10, pp. 353-357, Aug. 2011.
- Jui-Han Lu, Senior Member, IEEE, and Wen-Chieh Chou &quot;Planar Dual U-Shaped Monopole Antenna with Multiband Operation for IEEE 802.16e&quot; IEEE Antennas and Wireless Propagation Lett., Vol. 9, PP. 1006-1009.
- Wen-Chung Liu, Senior Member, IEEE, Chao-Ming Wu, and Yang Dai &quot;Design of Triple-Frequency Microstrip-Fed.

Index Terms

Computer Science

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Keywords

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