A compact rupee shaped CPW-fed antenna with dual-band operation for worldwide interoperability for microwave access (WiMAX) and wireless local area network (WLAN) applications is proposed in this paper. The antenna has a very simple structure and a compact size of 17 X 17.5 X 1.6 mm³. A prototype is fabricated and then tested. The measured impedance bandwidth at VSWR 2:1 is 700 MHz from 3.2-3.9 GHz and 870 MHz from 4.7-5.1 GHz.
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57 GHz which covers the 5. 2/5. 8 GHz WLAN and 3. 5/5. 5 GHz WiMAX bands. The measured and simulated results are found to be in good agreement.

References

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Index Terms

Computer Science

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Keywords

Cpw-fed  Compact Antenna  Wimax  Wlan.