Abstract

Miniaturized structure and high directive gain performance of a patch antenna are primary requirements for modern wireless communication systems. In this paper, a novel design of dual band micro strip patch antenna with rectangular notch has been proposed for WLAN and WiMAX applications. For dual bands (3. 6 GHz and 5. 1GHz), proposed patch antenna shows quite satisfactory radiation and gain performance. Proposed antenna was designed, simulated and analyzed by using a finite element method based on high frequency structural simulator HFSS. The result exhibit that the antenna operates over the frequency ranges 150 MHZ (3. 52-3. 67GHZ), 284 MHZ (4. 92-5. 20GHZ) and suitable for WiMAX 2. 5/3. 5/5. 5 GHZ and WLAN (2. 4/5. 2/5. 8) and applications.

References


**Index Terms**

Computer Science

Wireless Communications

**Keywords**

Micro strip patch antenna  HFSS  Dual band  Notch  Return loss.