

# 運用於 WLAN/WiMAX 行動通訊裝置之平面式單極天線設計

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## 摘要

本論文根據現今小型化多媒體行動裝置的發展趨勢，提出多操作頻帶之平面式單極天線設計，並將天線分別應用在膝上型電腦、行動電話、USB無線網路卡三種不同行動通訊裝置的系統接地面上，也都能提出一因應的解決方案來達到適用於未來的WLAN (Wireless Local Area Network；無線區域網路) / WiMAX (Worldwide Interoperability for Microwave Access；微波存取全球互通)無線通訊系統規範，同時也能維持良好的輻射特性。

關鍵詞：平面式單極天線；膝上型電腦；行動電話；USB無線網路卡；無線區域網路(WLAN)；微波存取全球互通(WiMAX)

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