W2CBW0015
WiFi + Bluetooth™

Wi2Wi — Wireless 2 Wireless

Product Brief

General Description

This specification provides a general guideline on the performance and the integration of W2CBW0015, a complete wireless subsystem featuring full 802.11 b/g/n WLAN + BT capabilities in a small form factor module solution. Both radios are fully tested for co-existence. A set of certifications will also be provided. Based on world-class silicon from Wi2Wi partner Marvell, the W2CBW0015 has also been fully optimized for throughput and receiver sensitivity through careful design practices. It is a complete 802.11 b/g/n WiFi solution that includes the crystal, switch, all filtering, local memory for MAC address storage and diagnostics capability. State-of-the-art software development resources are available to create drivers for unique processors and operating systems, if needed.

Features

- WiFi b/g/n
- Bluetooth 3.0
- Compact design for easy integration: 9.5mm x 9.5mm x 1.4mm
- 81 Pad LGA surface mount package
- Bluetooth & WLAN technology based on Marvell's 88W8787
- Optimized RF and electrical design for better performance in co-existence with other wireless standards
- Operates in 2.4 GHz ISM band
- WEP, WPA, WPA2 (WiFi Protected Access)
- ROHS Compliant
- Fully integrated co-existence solution
- MicroAP support
- For single Antenna application

Applications

- Video Streaming and Telephony
- Video Conferencing
- WiFi Enabled Security Cameras
- Internet-Enabled Consumer Devices
- Warehousing and Logistics Handhelds
- Automotive Aftermarket
- Medical Imaging, Monitoring & Equipment
- Industrial Handhelds
- M2M Applications
- VoFi and Other Smart Phones

Target Specifications

- Package Dimensions
    9.5mm x 9.5mm x 1.4mm
- Power Ratings
    < 200 mA
- Temperature Range
    -30°C to +85°C
- Interfaces - WiFi
    SDIO
- Interfaces - BT
    SDIO
- Transmit Power
    WiFi up to 15 dBm
    BT up to 10 dBm (Higher than Class 2)