W2CBW0016i

WiFi + Bluetooth™

SiP Module - Industrial Temperature Apr 2012 Rev 1.21

Product Brief

For the latest collaterals, please visit the Extranet Portal at http://www.wi2wi.com/mgr/

General Description

This specification provides a general guideline on the performance and the integration of W2CBW0016i, a complete wireless subsystem featuring full 802.11 b/g/n WLAN + BT capabilities in a small form factor module solution, for industrial operating temperatures (-40°C to +85°C). 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 W2CBW0016i 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

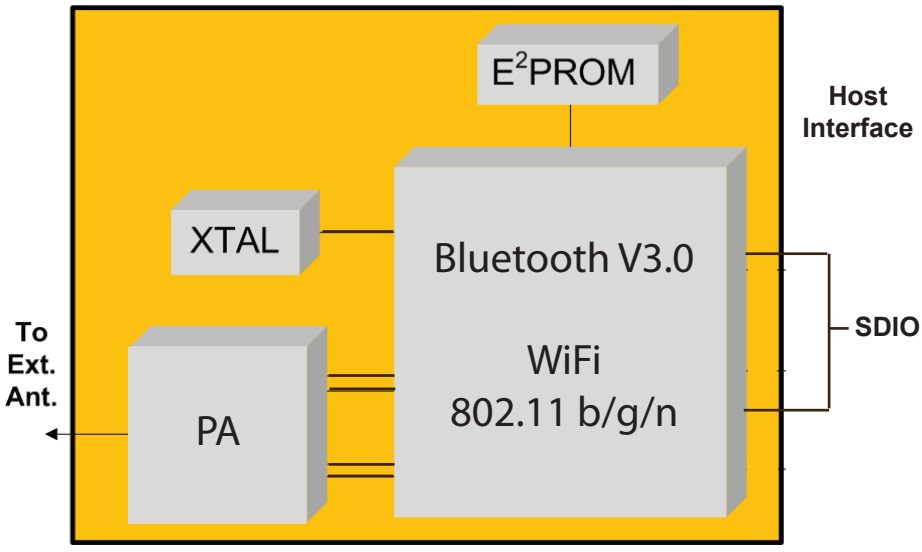
- WiFi b/g/n
- Bluetooth 3.0
- Compact design for easy integration: 12mm x 12mm x 1.4mm
- 100 Pad LGA surface mount package
- Bluetooth & WLAN technology based on Marvell's 88W8787
- Optimized RF and electrical design for better performance in co-existence with other wireless standards
- Operates in 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
- Defense & Government Applications
- Ruggedized Systems Applications
- 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
  - 12mm x 12mm x 1.4mm
- Power Ratings
  - < 200 mA
- Temperature Range
  - Industrial: -40°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)



Wi2Wi Inc. 2107 N First Street Ste 540, San Jose, CA 95131
USA Tel: +1 408 416 4000 FAX: +1 408 416 4201
Email: sales@wi2wi.com Website: www.wi2wi.com