

1 General Description

This specification provides general information regarding performance and integration of W2SW0011, a complete wireless subsystem featuring 802.11 b/g/n WLAN capabilities in a small form factor module. The W2SW0011 device is designed to simplify the process of adding wireless capability without lengthy design cycles or complex RF design. It is completely tested for functionality and performance along with coexistence with other wireless standards. A full menu of certifications will also be provided, simplifying the certification process for your end product while further reducing valuable time-to-market. Based on world-class silicon from Marvell, the W2SW0011 has been fully optimized for throughput and receive sensitivity using careful design practices. Software development resources are available to create drivers for unique processors and operating systems if needed, and to optimize the wireless subsystem for your application.

2 Features

- Compact design for easy integration: 15mm x 15mm
- LGA with 60 pins
- WLAN technology based on Marvell's 88W8786
- Certified radio
- Optimized RF and electrical design for better performance in co-existence with other wireless standards
- Operates in 2.4GHz ISM band
- ROHS Compliant
- Single supply of 3.3V
- SDIO HS up to 50 MHz, 4 bit
- 50-Ohm antenna launch
- Support for various operating systems
- 1, 2, 5.5 and 11 Mbps data rates for 802.11b (DSSS/CCK modulation)
- 6, 9, 12, 18, 24, 36, 48 and 54 Mbps data rates for 802.11g (OFDM modulation)
- 50 Mps for 802.11n, planned support for 150 Mbs in a later revision