

## Specification

### Standards

- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.11n

### Wireless Signal Rates

- IEEE 802.11b: 11, 5.5, 2 and 1Mbps
- IEEE 802.11g: 54, 48, 36, 24, 18, 12, 9 and 6Mbps
- IEEE 802.11n: (20 MHz BW) 75Mbps

### Security

- 64/128-bit WEP
- WPA/WPA2 —Wi-Fi Protected Access
- WPA/WPA2-PSK (Pre-Shared Key)

### Radio and Modulation Type

- DBPSK, DQPSK, CCK, OFDM, 16-QAM, 64-QAM

### Channels

For product available in the USA/Canada market, only channel 1-11 can be operated. Selection of other channels is not possible.

### Wireless Frequency Range

- 2.4GHz ISM Band (2412M-2462MHz)

### Wireless Operating Range

- Indoors: Up to 328 feet (100 meters)
- Outdoors: Up to 1,312 feet (400 meters)

### Bandwidth

- 20MHz

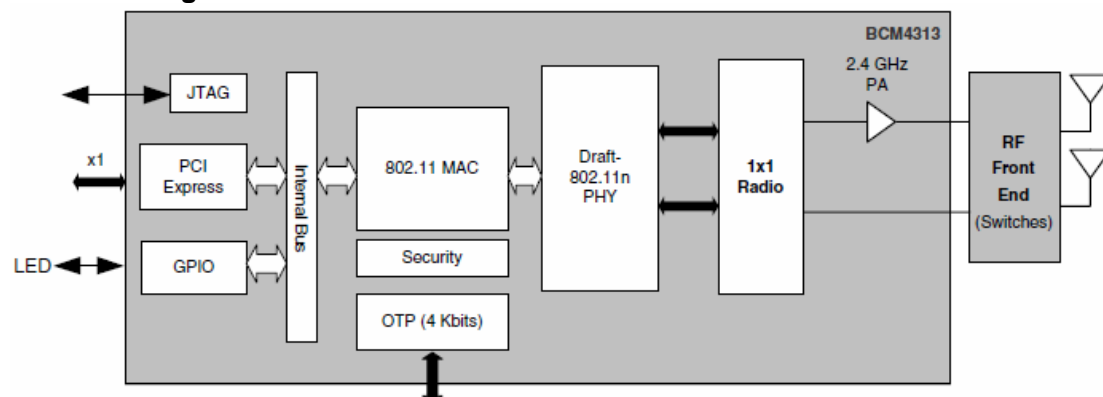
### Output power

- 20dBm(MAX)

### Antenna

- 3dBi fixed omnidirectional antenna

### Function Diagram





The BCM4313 has a wide dynamic range, direct conversion receiver. It employs high-order, on-chip channel filtering to ensure reliable operation in the noisy 2.4 GHz ISM band. The excellent noise figure of the receiver makes an external LNA unnecessary.

#### **TRANSMITTER PATH**

Baseband data is modulated and upconverted to the 2.4 GHz ISM band. Linear on-chip power amplifiers are included, which are capable of delivering a nominal output power exceeding +15 dBm while meeting the IEEE 802.11g specification. The TX gain has a 65 dB range with a resolution of 0.125 dB.