

TECHNICAL DESCRIPTION

WLAN Function Description

This WLAN device support 1x1 single input, single output (SISO) with single spatial streams IEEE802.11 a/b/g/n WLAN standards.

Operation of each part is based and explained in a module RF Block diagram. By using the reference signal currently used by the internal clock, Stable RF signal and the table baseband clock are generated. Sleep clock supplied by external input 32.768KHz.

The WIFI 11 b/g/n operates at 2412-2462MHz and WIFI 11a/n operates at 5150-5250MHz and 5725-5825 which are compliant to FCC requirement.

Antenna Type: PIFA

Antenna Gain table:

2.4GHz 2400-2500MHz	5.2GHz 5150-5350MHz	5.8GHz 5725-5850MHz
2.44	0.53	0.71

Bluetooth Function Description

Bluetooth function is fully compliant with Bluetooth specification 4.2.

Bluetooth basic rate use GFSK modulation, where an instantaneous data rate of 1 Mbit/s is possible. Bluetooth Enhanced Data Rate (EDR) adopts $\pi/4$ -DPSK and 8DPSK schemes, each with 2 and 3 Mbits/s respectively. Bluetooth Low Emerge (BLE) adopts GFSK schemes with 1Mbits/s and 2Mbits/s.

Operation of each part is based and explained in a module RF Block diagram.