# Operational Description

This device is an 802.11n WLAN PCI CARD, which operates in the 2.4GHz frequency spectrum with throughput of up to 300Mbps which OFDM technique will be applied. If the signal to noise rate is too poor which could not support 300Mbps, the 11Mbps data rate with DSSS technique will be applied. The transmitter of EUT is powered by host equipment.

**Note:**

1. There are two antennas provided to this EUT, please refer to the following table:

| Transmitter Circuit | Antenna Type | Gain (dBi) | Cable Loss (dB) | Net Gain (dBi) | Antenna Connector |
|---|---|---|---|---|---|
| Chain(0) | Dipole | 4 | 0.6 | 3.4 | SMA Straight Plug Reverse |
| Chain(1) | Dipole | 4 | 0.6 | 3.4 | SMA Straight Plug Reverse |

2. The EUT is 2 * 2 spatial MIMO (2Tx & 2Rx) without beam forming function. The antenna configurations are two transmitter antennas and two receiver antennas, as there are 2 Dipole antennas. Spatial multiplexing modes for simultaneous transmission using 2 antennas, and for simultaneous receiver using 2 antennas.

3. The EUT complies with draft 802.11n standards and backwards compatible with 802.11b, 802.11g products.

4. When the EUT operating in draft 802.11n, the software operation, which is defined by manufacturer, MCS (Modulation and Coding Schemes) from 0 to 15.

5. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.