

## Operational Description

This device is a Wireless-N Broadband Router, which operates in the 2.4GHz frequency spectrum with throughput of up to 270Mbps which OFDM technique will be applied. If the signal to noise ratio is too poor which could not support 270Mbps, the 11Mbps data rate with DSSS technique will be applied.

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

No.	Gain (dBi)	Antenna Type	Antenna Connector
1	2.0	Dipole	NA
2	2.0	Dipole	NA
3	1.8	PCB monopole	NA

2. The EUT incorporates a MIMO function with 802.11b, 802.11g, draft 802.11n. Physically, the card provides two completed transmit and two receivers.
3. The EUT is 2 \* 2 spatial MIMO without beam forming function. The antenna configuration are three transmitter antennas and three receiver antennas , as there are 2 dipole antennas and one PCB monopole antenna. Spatial multiplexing modes for simultaneous transmission using 2 antennas, and for simultaneous receiver using 2 antennas.
4. The EUT complies with draft 802.11n standards and backwards compatible with 802.11b, 802.11g products.
5. The EUT operates in the 2.4GHz frequency spectrum with data rate up to 270Mbps.
6. 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.