

Operational Description

This device is an 11N WLANADSL Router, which operates in the 2.4GHz frequency spectrum with throughput of up to 135Mbps which OFDM technique will be applied. If the signal to noise rate is too poor which could not support 135Mbps, the 11Mbps data rate with DSSS technique will be applied.

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

No.	Antenna Type	Gain (dBi)	Antenna Connector
1	Internal PCB	3.5	IPEX
2	Internal PCB	3.5	IPEX

2. The EUT must be supplied with a power adapter as following:

Brand:	TRUMP WAY
Model No.:	ZWS012GU1500080
Input power :	AC100-240V, 0.45A, 60Hz
Output power :	DC 15V, 800mA DC output cable (Unshielded, 1.2m)

3. The EUT was pre-tested in chamber under the following modes:

Test Mode	Description
Mode A	Level-set (Put on tabletop)
Mode B	Tower-set (Wall-mounted)

From the above modes, the worst case was found in **Mode A**. Therefore only the test data of the modes were recorded in this report.

4. The EUT incorporates a MIMO function with draft 802.11n. Physically, the EUT provides two completed transmit and two completed receivers.
5. The EUT is 2 * 2 spatial MIMO without beam forming function. The antenna configurations are two transmitter antennas and two receiver antennas, as there are 2 Internal PCB antennas. Spatial multiplexing modes for simultaneous transmission using 2 antennas, and for simultaneous receiver using 2 antennas.
6. 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.
7. The EUT complies with draft 802.11n standards and backwards compatible with 802.11b, 802.11g products.
8. 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.