

Operational Description

This device is a Mobile Wireless Router, which operates in the 2.4GHz frequency spectrum with throughput of up to 150Mbps which OFDM technique will be applied. If the signal to noise rate is too poor which could not support 150Mbps, the 11Mbps data rate with DSSS technique will be applied.

1. There is one antenna provided to this EUT, please refer to the following table:

No.	Brand No.	Model No.	Gain (dBi)	Cable Loss (dBi)	Net Gain (dBi)	Antenna Type	Connector
1	WHA YU GROUP	C037-511023-A (NP-9072)	2.9	0.27	2.63	PCB antenna	MHF

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

Brand:	D-Link
Model No.:	CF1505-B
Input power :	AC100-120V, 04A, 50-60Hz
Output power :	DC 5V, 2.5A DC output cable (Unshielded, 1.5m)

3. The EUT's appearance has two different colors , which are identical to each other in all aspects except for the following information:

No.	Color	Difference
1	Black	For marking requirement
2	White	

4. The EUT could be applied with one 3G Card and following three different models could be chosen; therefore emission tests are added for simultaneously transmit between wireless LAN and 3G function. The emission tests have been performed at the worst channel of both WLAN and 3G, and recorded in other report. <only for test, not for sale>

Item	Brand name	Model name	FCC ID
1	HUAWEI	E220	FCC ID: QISE220
2	HUAWEI	E169	FCC ID: QISE169
3	HUAWEI	E180	FCC ID: QISE180

The EUT was pre-tested in chamber with above 3G Cards, the worst case was found in model: E180. Therefore only the test data of the mode was recorded in this report.

5. The EUT incorporates a SISO function with 802.11b, 802.11g, 802.11n. Physically, the EUT provides one completed transmitter and receivers.

6. The EUT is 1 * 1 spatial SISO without beam forming function. The antenna configuration is one transmitter antenna and one receiver antenna, as there is 1 PCB antenna. There is one transmitter and one receiver.
7. The EUT complies with 802.11n standards and backwards compatible with 802.11b, 802.11g products.
8. The EUT, operates in the 2.4GHz frequency range, lets you connect IEEE 802.11g or IEEE 802.11b and 802.11n technique devices to the network.
9. When the EUT operating in 802.11n, the software operation, which is defined by manufacturer, MCS (Modulation and Coding Schemes) from 0 to 7.
10. 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.