

Operational Description

This device is a Wireless Lan Card, the maximum data rate could be up to 54Mbps which OFDM technique will be applied. If the signal to noise ratio is too poor which could not support 54Mbps, the 11Mbps data rate with CCK technique will be applied.

The transmitter of EUT (Wireless Lan Card) is powered from host equipment. The antennas used in this product are as below:

No.	Antenna Type	Gain (dBi)	Connector Type	Antenna gain include cable loss
1	$\lambda/4$ Dipole	2.25 dBi	SMA Reverse	No
2	$\lambda/4$ Dipole	2.24 dBi	I-PEX	Yes
3	$1/4\lambda$ Dipole Sleeve	2.1 dBi	RP-SMA (M)	No
4	$1/4\lambda$ Dipole Sleeve	2.1 dBi	RP-SMA (M)	No
5	$1/4\lambda$ Dipole Sleeve	2.1 dBi	RP-SMA (M)	No
6	PCB	1.14 dBi	I-PEX	Yes
7	$1/4 \lambda$ Dipole Sleeve	2.1 dBi	SMA Reverse	No
<p>I Antenna 1,3,4,5 could choose antenna cable 1,2,3; Antenna 7 could choose antenna cable 4,5 (refer to table below)</p> <p>I From above antennas, antenna 2 and 6 were chosen for final test.</p>				

There are five antenna cables provided to above antennas:

No.	Brand Name	Model No.	Cable length (cm)	Cable loss (dBi)
1	WAN SHIH	SOW1294A1	11.66	0.71
2	KIN SUN	6603070205-105	10.5	0.5
3	WAN SHIH	SOW1916A1	11.9	0.57
4	WAN SHIH	THW1572A1	9	0.52
5	WAN SHIH	SAW0085A2	16	0.69

The other instruction, please have a look at the users manual.