

## **Theory of Operation**

### 1. Product description

The model Wavit 11 wireless LAN(referred to as the EUT in this report) is a Direct Sequence Spread Spectrum wireless. The EUT provides wireless communications between computers. The EUT is designed to be connected into the 10 BASE-T of desktop computer with cable. The EUT communicate with other wireless LAN using the frequency range from 2.412GHz to 2.462GHz. The EUT is supplied a power by AC adapter.

### 2. Specifications

Item	Specification
Frequency	2,400 -2,483.5MHz
Channel	11
Modulation	CCK (Complementary Code Keying)
Interface	10BASE-T
Data Rate	11Mbps/5.5Mbps/2Mbps/1Mbps
Receive Sensitivity	-83dBm(11Mbps, FER=8x10 <sup>-2</sup> )
Output Power	15dBm
Temperature Range	0-40 Celsius
Standards	ARIB STD-T66 IEEE 802.11b
Supply Voltage	5.0V
Consumption Current	TX: 600mA RX: 330mA
Size	65(W) x88(D) x 29.9(H) mm, Antenna is excluded
Weight	110g

### 3. Frequencies and Channel number

Frequency (MHz)	Channel number	Frequency (MHz)	Channel number	Frequency (MHz)	Channel number
2412	1	2437	6	2462	11
2417	2	2442	7	2467	Not used
2422	3	2447	8	2472	Not used
2427	4	2452	9		
2432	5	2457	10		