

Operational Description for Wireless Router, FCC ID: JVPAWL700

(1) The EUT is Wireless Router, FCC ID: JVPAWL700, Model AWL700. The EUT that contains five RJ-45 Ports, wireless module AWL100 and an external antenna is wireless router. It provides multiple users wired connection via four LAN ports and wireless connection via antenna to access LAN (Local Area Network). By connecting EUT WAN (Wide Area Network) port to an xDSL/cable modem, the computers on the network can share the access to internet by using a signal WAN IP in home or office. All the IP address can be setup and managed by software program provided by manufacturer. The EUT is intended to fix at high position to get better transmission quality through wireless access. AC-DC switching power adaptor provides EUT 5V/2A from 100~240VAC and internal power circuit will generate 3.3V from external adaptor. The signal type and information being sent is direct sequence spread spectrum with CCK (Complementary Code Keying) modulation. The transmit duty cycles is 100% duty cycle because of direct sequence spread spectrum but not frequency hopping. The antenna where the radio signal carrying network data transmitted and received is approximately 18 cm in length (9 cm is external) connected to wireless module AWL100. The specifications about EUT are listed as below:

Parameter of Technical Spec.	Description
1. Channel No. /Control Mode	11 Channels controlled by software
2. Operating Fundamental Frequency	2412~2462MHz
3. Operating Temperature /Voltage Range	0~40°C, DC 3~3.6V
4. Power Input of Receiver	DC 3.3V from 5V DC power adaptor
5. Power Input of Transmitter	DC 3.3V from 5V DC power adaptor
6. Transmitting Bandwidth	5MHz
7. Transmitter/Receiver Antenna Type	External Antenna
8. Modulation Type	CCK
9. Bit Rate	11Mbit/s
10. Chipping Rate	11Mchip/s
11. Data Rate	11Mbps
12. Spreading Rate	11
13. Pulse Repetition Rate	N/A