

## Operational Description for Access Point, FCC ID: JVPAWL500

- (A) The EUT is Access, FCC ID: JVPAWL500, Model AWL500. The EUT that contains one RJ-45 Port, wireless module AWL100 and an external antenna is an Access Point in Wireless LAN application. It provides multiple computers equipped with wireless LAN card to access LAN (Local Area Network) wirelessly via EUT antenna and share access to WAN (Wide Area Network) by connecting EUT RJ-45 port to an xDSL/cable modem 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. 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 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      | 2412.0MHz~2463.4MHz                |
| 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                                |