

FCC ID: NDD9576280517

## Description of Operation

EUT is a [MINO Wireless PCI](#) with 11 channels. This device provided 1/2/5.5/11/6/9/12/18/24/36/48/54 Mbps of transmitting speed. The device of RF carrier is DQPSK, DBPSK, CCK and OFDM. The device adapts direct sequence spread spectrum modulation. The antenna is [Dipole](#) Antenna.

This [MINO Wireless PCI](#) is an IEEE 802.11b/g Wireless LAN adapter and it supports Atheros Super G mode (108Mbps only for channel 6). It allows your computer to connect to a wireless network and to share resources, such as files or printers without being bound to the network wires. Operation in 2.4GHz Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Division Multiplex-ing (OFDM) radio transmission, the [MINO Wireless PCI](#) transfers data at speeds up to 64/128-bit Wired Equivalent Protection(WEP) algorithm and the new industrial-strength WPA (Wi-Fi Protected Access™) security is used. In addition, its standard compliance ensures that it can communicate with any 802.11b/g network.

Product Details

EUT IS a 802.11g MIMO Wireless LAN PCI Card with IEEE 802.11b/g MIMO radio functions. Only the radio detail of WLAN is shown in the table below. For more detailed features description, please refer to the manufacturer’s specifications or user’s manual.

| Items                    | Description   |
|--------------------------|---|
| Product Type             | WLAN  |
| Radio Type               | Intentional Transceiver                                       |
| Power Type               | 5V DC from host   |
| Interface Type           | PCI   |
| Modulation               | DSSS for IEEE 802.11b ; OFDM for IEEE 802.11g                 |
| Data Modulation          | DSSS (BPSK / QPSK / CCK) ; OFDM (BPSK / QPSK / 16QAM / 64QAM) |
| Data Rate (Mbps)         | DSSS (1/ 2/ 5.5/11) ; OFDM (6/9/12/18/24/36/48/54)            |
| Frequency Range          | 2400 ~ 2483.5MHz  |
| Channel Number           | 11  |
| Channel Band Width (99%) | 11b: 14.60 MHz ; 11g: 16.36 MHz                               |
| Conducted Output Power   | 11b: 17.18 dBm ; 11g: 18.49 dBm                               |
| Carrier Frequencies      | 2412-2462 MHz   |
| Antenna                  | Dipole Antenna  |

Table for Filed Antenna

| Ant. | Antenna Type   | Connector | Gain (dBi) |
|------|----------------|-----------|------------|
| 1    | Dipole Antenna | RP-SM     | 2.0        |

The EUT has two antenna for signal reception and one antenna for high power signal transmission. The specification of each antenna is the same.