

## FCC Statement

**Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.**

The device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is needed. Consult the dealer or an experienced radio/TV technician for help.



### **CAUTION:**

To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.

This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter

This device is intended only for OEM integrators under the following conditions:

The antenna must be installed such that 20 cm is maintained between the antenna and users. For laptop installations, the antenna must be installed to ensure that the proper spacing is maintained in the event the users places the device in their lap during use (i.e. positioning of antennas must be placed in the upper portion of the LCD panel only to ensure 20 cm will be maintained if the user places the device in their lap for use) and The transmitter module may not be co-located with any other transmitter or antenna. As long as the 2 conditions above are met, further transmitter testing will not be required.

However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

**IMPORTANT NOTE:** In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID can not be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

### **End Product Labeling**

This transmitter module is authorized only for use in devices where the antenna may be installed such that 20 cm may be maintained between the antenna and users (for example access points, routers, wireless ASDL modems, certain laptop configurations, and similar equipment). The final end product must be labeled in a visible area with the following: "Contains TX FCC ID: M4Y-AN622V01".

### **RF Exposure Manual Information That Must be Included**

The users manual for end users must include the following information in a prominent location  
"IMPORTANT NOTE: To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

### **Additional Information That Must be Provided to OEM Integrators**

The end user should NOT be provided any instructions on how to remove or install the device.

This device is going to be operated in 5.15~5.25GHz frequency range, it is restricted in indoor environment only.

# 1. Introduction

IEEE802.11 a/b/g/n dual band 2x2 Wireless Network Mini PCI Adapter is the perfect solution for your wireless network applications based on the IEEE 802.11n standard offering a data rate of up to 300Mbps in a wireless LAN environment.

AN-622 can easily integrate into a wide range of devices such as Access Point, Router, ATUR, Printer Server series, IP Camera series and Internet Video Server, etc. The new MIMO wireless miniPCI offers dramatic performance improvement and backward compatible over standard 802.11a/b/g wireless devices. It provides high-speed wireless connection with data rate up to 300Mbps (two streams) and connects to farther distance.

## 2. Features

.Dual band 802.11 a/b/g/n support 2Tx/2Rx to enable data rate up to 300Mbps link rate for 40MHz channel, six times the throughput of 802.11a and 802.11g.

.802.11n Draft 2.0 compliant Wi-Fi solution. Fully compatible with 802.11a/b/g legacy devices.

.Compatible with Wi-Fi Wireless Products and Services

.High system integration drives.

.Two UF-L Connectors for External Antenna

.Features WEP, WPA-AES hardware-based and TKIP security capabilities.

## 3. Hardware Installation

The following sections in this chapter describe how to install AN-622 Module

### 3.1. Installation Overview

**AN-622** wireless module is design for Access Point, Router, ATU-R, Printer Server series, IP Camera series and Internet Video Server only.

### 3.2. Safety Recommendations

**The safety guidelines are as follows:**

- λ Keep the board area clear and dust-free before, during, and after installation.
- λ Keep tools away from walk areas where you and others could fall over them.
- λ Do not wear loose clothing or jewelry, such as earrings, bracelets, or chains, that could get caught in the board.
- λ Wear safety glasses if you are working under any conditions that might be hazardous to your eyes.
- λ Do not perform any action that creates a potential hazard to people or makes the equipment unsafe.
- λ Never attempt to lift an object that is too heavy for one person to handle.

### 3.3. Maintaining Safety with Electricity

**Warning: Before working on a board or working near power supplies, unplug the power cord on AC units; on DC units, disconnect the power at the circuit breaker.**

**Follow these guidelines when working on equipment powered by electricity:**

- λ Do not work alone if potentially hazardous conditions exist anywhere in your work space.
- λ Never assume that power is disconnected from a circuit; always check the circuit.

**extension cables, frayed power cords, and missing safety grounds. λ If an electrical accident occurs, proceed as follows:**

- Use caution; do not become a victim yourself. – Disconnect power from the system.
- If possible, send another person to get medical aid. Otherwise, assess the condition of the victim and then call for help.
- Determine if the person needs rescue breathing or external cardiac compressions; then take appropriate action.

### **3.4 Installing a AN-622**

λ Remove the AN-622 module from its protective packaging.

λ Avoiding Electrostatic Discharge

Before you install the AN-622 module, ground yourself by touching a piece of metal to avoid electrostatic discharge (ESD). You should also take the following precautions to prevent damage to the AN-622 module:

λ Keep the AN-622 module in its antistatic-shielded bag until you are ready to install it.

λ Handle the AN-622 module by its edges.

Ensure antenna connectors are connected to the Model's board tightly.