

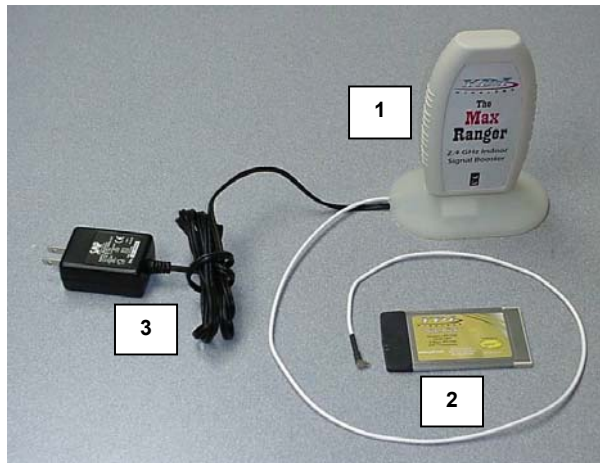
## Introduction

The Max Ranger is an antenna with an integrated bi-directional amplifier used to extend the indoor range of 802.11b Wireless LAN cards. The Max Ranger is designed to be used with YDI/Agere PCMCIA WLAN cards that can be inserted into any suitable device such as an Access Point, YDI Ethernet Converter (EC), or even a laptop computer. It is easy to install and ready to work "right out of the box". The internal antenna is horizontally polarized for optimum RF connection to other WLAN cards which typically are also horizontally polarized. It features over 300 mW (+25 dBm) of transmit power (EIRP). It is FCC Part 15 Certified for license-free operation with our Sidekick and Sapphire WLAN cards, and is capable to work in a temperature range of 0°C to +50°C.

## Max Ranger Kit Contents

1. Antenna with integrated bi-directional amplifier and RF cable terminated in antenna connector for the YDI/Agere WLAN card
2. YDI Sidekick Wireless LAN card
3. 110/220 VAC to 5 VDC wall mount power supply

**Figure 1 – Max Ranger Kit**

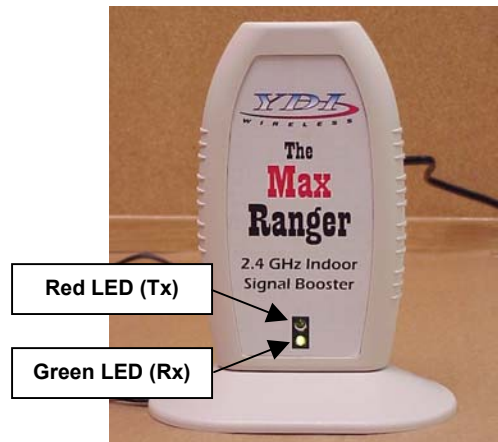


## LEDs

Two LEDs are present on the front of the Max Ranger (see Figure 2):

- The Red LED flashes when the Max Ranger transmits data
- The Green LED indicates that the Max Ranger is in receive mode

**Figure 2 – Max Ranger LEDs**



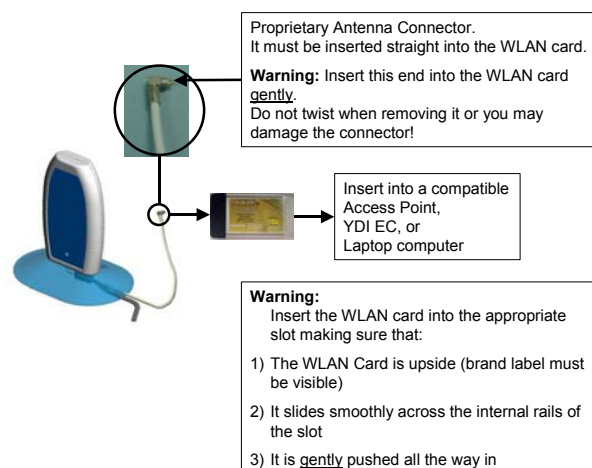
## Installation

The Max Ranger radio unit can be placed near the computer or device on a tabletop.

1. Remove the small black plastic cap from the proprietary antenna jack of the WLAN card with your finger nail or a small screwdriver.
2. Plug the RF cable that is attached at the bottom of the Max Ranger to the proprietary antenna jack on the WLAN card as shown on figure 3.

**CAUTION:** The antenna connector is a tight push-on fit.

**Figure 3 – Connecting the Max Ranger to the WLAN Card**



3. Plug the DC power connector into the jack at the bottom of the Max Ranger as shown on Figure 4. Push the cable into the notch in the base to insure the Max Ranger is stable on the tabletop.
4. Plug the power supply into a standard wall outlet.

**Figure 4 – Plugging the DC Power Connector into the Bottom Jack of the Max Ranger**



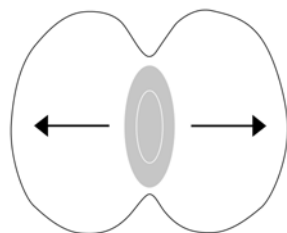
## Operation

1. To find the best position for your Max Ranger, YDI recommends to use the Signal Strength Indicator found on the Link Test screen of the Wireless Client Manager for your WLAN card. You can also use the YDI Client Manager for EC. For a detailed explanation on how to use each software, please refer to the User's Manual of your specific product.
2. Aim the Max Ranger by turning it back and forth until the maximum signal strength is reached.

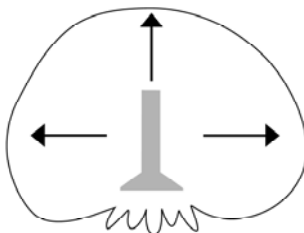
## Antenna Patterns

The Max Ranger boosts the signal the most in the front and back directions (Figure 5a) as well as out of the top (Figure 5b). The weakest signal will be at the bottom and sides.

**Figure 5a**  
**Top View Showing the Strongest Signal Facing the Flat Parts**



**Figure 5b**  
**Side View Showing the Maximum Coverage Area Out of the Top and Sides**



## Technical Support

Your primary source of assistance is the dealer from which you purchased this product. The YDI support staff should only be contacted directly if you purchased this product directly from YDI.

**NOTE:** Before you contact Technical Support, please make sure that you have read and thoroughly understood all instructions outlined on this manual.

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| YDI Wireless           | Tel.: 703-205-0600                                     |
| 8000 Lee Highway       | Fax: 703-205-0610                                      |
| Falls Church, VA 22042 | E-mail: <a href="mailto:tech@ydi.com">tech@ydi.com</a> |
| USA                    | <a href="http://www.ydi.com">www.ydi.com</a>           |

The latest software and User's Manuals can also be found at:

<http://www.ydi.com/support/downloads.php>

<http://www.ydi.com/support/documents.php>

## FCC NOTICE

This antenna/transmitter device complies with FCC radiation exposure limits set forth for an uncontrolled environment when installed as directed. The antenna used for this transmitter must be installed and operated with a minimum separation distance of at least 20 centimeters (8 inches) from all persons during normal operation, and must not be co-located or operating in conjunction with any other antenna or transmitter. Users and installers must adhere to the antenna installation instructions and transmitter operating conditions in order to comply with the FCC's RF exposure requirements.

This 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.

**NOTE:** The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

The Max Ranger is certified by the FCC for use with the PC24E-11-FC/R series of YDI Wireless LAN cards made by Agere.

To see all our FCC certified systems, please visit:

<http://www.ydi.com/deployinfo/fcc-info.php>