



Farm Works – Farm Sync

Wireless Antenna Mounting and Connection Instructions

You will need the following items:

1. **Wireless router with removable antenna / s**
 - a. We recommend Linksys wireless routers.
 - b. Model: WRT54GS ~\$80 (G) or WRT300N ~\$130 (N)
 - i. N will have more range and will be faster, but mobile units must be capable of using N
2. **Omni-directional high gain antenna**
 - a. We recommend purchasing: **HG2415U-PRO** from the following site:
 - i. http://www.hyperlinktech.com/web/antennas_2400_out_omni.php
 - ii. This will include mounting hardware for the antenna.
 - iii. ~\$130
3. **You will need to determine the appropriate connection to your routers antenna port at the following site:**
 - a. http://www.hyperlinktech.com/web/radio_to_connector_list.php
 - b. If your router does not have a removable antenna, it will need replaced.
4. **Coax with sufficient length to connect to the Omni-directional antenna mounted outside and to the wireless router indoors.**
 - a. You can purchase the desired coax length from this site:
 - i. http://www.hyperlinktech.com/web/cable_feed400.php
 - b. You can purchase the coax with the correct ends installed or purchase adapters separately. You can use this site to help determine your adapter part number and type:
 - i. <http://www.hyperlinktech.com/web/connectors/adapters.php>
 - ii. Cable: 50 ft. ~\$50 – 100 ft. ~\$120
 - c. Adapter if needed: ~\$5

Complete package excluding router: \$180 to \$250 (\$260 - \$380 with a router)

• General Connection Directions to Connect Router:

1. Open packages and remove antenna, cable, and adapters from packaging.
2. Remove existing antenna from router.
3. Determine correct adapter needed (if any) to connect antenna cable to router.
4. Connect adapter (if needed) to router then antenna cable to adapter.
5. Route antenna cable to bottom of antenna avoiding kinks or areas where cable may be damaged or scarred.
6. Do not tie cable to electric wires or other antenna cables.
7. Coil excess cable and securely fasten along the route with cable ties.
8. Connect opposite end to the bottom of antenna.

• General Guidelines on Where to mount:

- Highest point possible
- Clear of obstructions (mount above obstructions)
- Things to avoid:
 - Trees, power lines, two-way radio antennas
- Make sure you have enough antenna cable to reach antenna location from router.

Note: If longer distances from your router to your antenna are required, you may consider an Outdoor Wireless Access Point. Please ask for more details.

- *General Guidelines on How to mount:*
 - When mounting, be sure to follow including mounting instructions provided with antenna.
 - Always mount antenna vertical.
 - Do not cover the drain holes on the bottom of the antenna. They provide drainage.
 - Using two provided clamps, slide clamps over gold sleeve. Tighten set screw on first clamp half way up sleeve and the second clamp below it. Always use both clamps.
 - A Lightning arresstor may be purchased separately if required:
 - i. http://www.hyperlinktech.com/web/coaxial_lightning_protectors.php

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