



## Wireless Accessories

RLE's Wi-MGR wireless sensor network manager is a powerful tool. We provide several accessories to maximize its capabilities and ensure a seamless installation and reliable system operation.

### Wi-PR Point Repeater

The Wi-PR is a 418 MHz RF receiver with an integrated 900 MHz transmitter. The Wi-PR provides a means for extending the range of 418 MHz battery-powered sensors and controls into a mesh network of 900 MHz wireless point repeaters (Wi-PRs) and Ethernet-connected servers and managers.

It receives error-checked data packets from wireless 418 MHz sensors, processes the data, and then transmits the data to RLE 900 MHz devices. Multiple repeaters can coexist and communicate with the Wi-MGR wireless sensor network manager and other Wi-PR mesh repeaters.

### 900 MHz Antenna

This antenna is suited for applications which require an unobtrusive, tamper-resistant antenna solution - such as wireless vending, traffic, and security installations. The antenna's co-ax feed is available with SMA or RP-SMA terminations.

## Features

### Point Repeater

- Wireless with compact enclosure
- Moisture-resistant coating
- Complies with Part 15 of the FCC rules

### Antenna

- Unobtrusive
- Tamper resistant
- Indoor / outdoor
- Adhesive or permanent mount

## Benefits

- Easy installation
- Wi-PR is simple to relocate and has a FCC-certified transmitter
- Reliable communication
- Durable for moist environments

# Monitoring & Notification

[www.rletech.com](http://www.rletech.com)

## Wi-PR Specifications

<b>Power</b>	5VDC @ 300mA. Includes a (US) 110-120VAC to 5VDC power adapter.
<b>Transmission</b>	
Frequency	418 MHz receiving
Range	900 MHz spread spectrum transceiver mesh repeater Up to 1300 ft. (396m) indoors
<b>Operating Environment</b>	
Temperature	32°F to 158°F (0°C to 70°C)
Humidity	5% to 90% RH, non-condensing
<b>Storage Temperature</b>	-40°F to 185°F (-40°C to 85°C)
<b>Dimensions</b>	
Enclosure	3.3" W X 3.3" H X 1.4" D (83.82mm W x 83.82mm H x 35.56mm D)
<b>Weight</b>	6.44 oz. (182.6g)
<b>Mounting</b>	Wall mount or free-standing (for ease of relocation)
<b>Certification</b>	FCC Part 15, Class B; FCC ID: OUR9XSTREAM

## 900 MHz Antenna Specifications

<b>Center Frequency</b>	916MHz
<b>Recommended Operating Frequency</b>	900-930MHz
<b>Wavelength</b>	1/4-wave
<b>VSWR</b>	<1.9 typ. at center
<b>Impedance</b>	50 ohms
<b>Connector</b>	RP-SMA or SMA

**Note:** Electrical specifications and plots measured on 24"x 24" reference ground plane.

