

## Product Overview



LigoWave brings seamless 900 MHz point-to-point connectivity with the release of the LigoPTP 900-N connectorized radio. Hosting a powerful 25 dBm RF engine, this product enables carrier-class point-to-point operation in the 900 MHz spectrum for applications where line of sight is not available. This radio features an external N-connector for custom antenna application and is housed in a rugged, cast aluminum enclosure.

The LigoPTP 900-N showcases an optimized version of the LigOS software suite - a powerful core OS providing an array of management and security features not present in other WISP products on the market today. The LigoWave point-to-point products also feature selective repeat ARQ technology, an enhanced software feature that optimizes data traffic to provide very high throughput over high-bandwidth, long-range links even in the presence of interference. The LigoPTP 900-N is also compatible with RCMS, a centralized configuration, firmware, and statistics server offered by LigoWave for carrier class diagnostic and configuration management capabilities.

## Key Features

- Adjustable RF Output power
- Adjustable Channel Width capability for throughput optimization
- ARQ (Selective Repeat) for very high throughput
- True TCP throughput up to 40 Mbps
- 35,000 packets-per-second (PPS) ideal for VOIP backhaul applications
- Dynamic TDD for bandwidth optimization
- External N-Connector for custom antenna application
- Superior foliage-penetration properties
- PoE built-in for single cable installation
- Advanced security technologies
- Comprehensive management features
  - Web GUI
  - Command line management via SSH
  - RCMS server support for configuration
  - SNMP V1/2/3 with traps supporting MIBs: 802.1, 802.1x, MIBII
  - Syslog support
- Articulating Bracket Solution for multi-facet mounting

## Specifications

### WLAN Standard

Proprietary 900 MHz

### Radio Scheme

900 MHz: OFDM (64QAM, 16QAM, QPSK, BPSK)  
ARQ (Selective Repeat)

### Error Correction

FEC, ARQ (Selective Repeat)

### Frequency Range

868 MHz - 928 MHz (country dependent)

### Channel Size

5/10/20 MHz

### RF Output Power

25 dBm - Adjustable

### Receiver Sensitivity

Adaptive, varying between -92.0 dBm and -72.0 dBm according to modulation selected

### Power Supply

Power over Ethernet, 18V DC / 1.0 A  
On-board surge protect

### Antenna

External N-Connector

### Data Rates

Up to 40 Mbps at the Ethernet  
Dynamically variable with aggregate modulation range from 3.0 Mbps to 40 Mbps

### Operating Mode

Point-to-Point

### Security

Password Protection  
AES Encryption  
SSH Configuration Option

### Operating Environment

Temperature -20C - 60C  
Humidity 10 - 90% (non-condensing)

### Warranty

2-Years

### Certification

FCC