

Product Overview



LigoWave brings seamless 900 MHz point-to-point connectivity with the release of the LigoPTP 900-13 integrated radio. This product features a powerful, 25 dBm RF engine coupled with an integrated 13 dBi panel antenna, enabling carrier-class point-to-point operation in the 900 MHz spectrum—perfect for achieving long range wireless links in applications where line of sight is not available.

The LigoPTP 900-13 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 900-13 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

- High output power (25 dBm) - adjustable
- 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
- 13 dBi Integrated Panel Antenna
- 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 GHz: 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

Integrated 13 dBi Panel

3 dB Beamwidth (Vertical/Horizontal)

42 deg/42 deg

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)

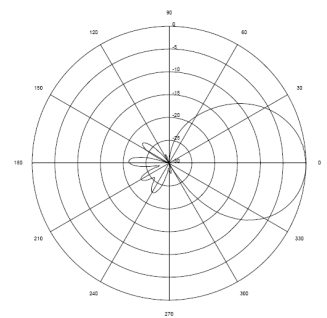
Warranty

1-Year

Certification

FCC

RF Patterns (Vertical)



RF Patterns (Horizontal)

