WLO-14700TM

4.7-4.9GHz TDMA MIMO Ethernet Radio, W/ 2 x Ntype connectors

Carrier Grade TDMA MIMO | **4.7-4.9GHz** | **80Mbps @40KM PTP** | **High Security 128-bit AES**
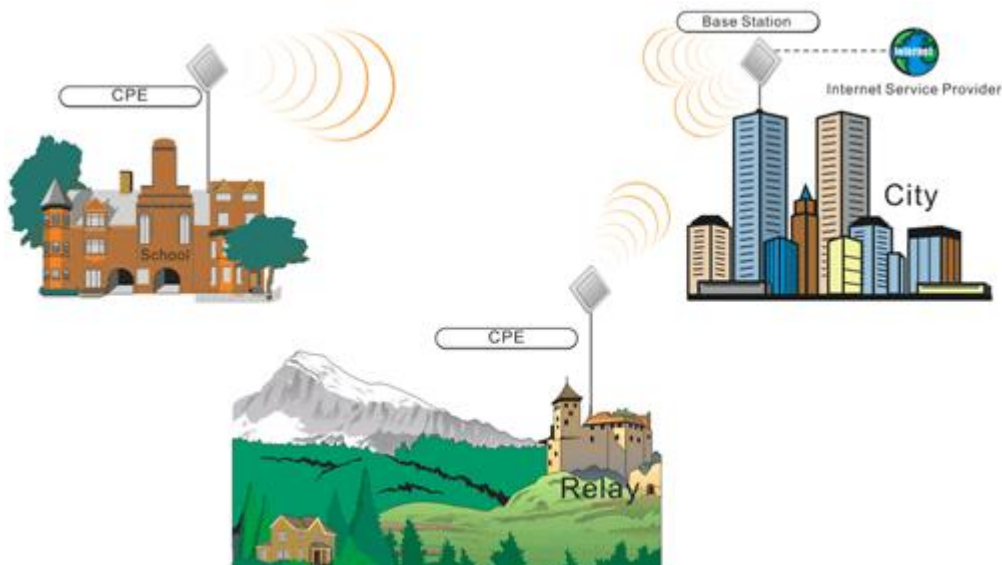
IEEE802.3at POE | **IP67 Rated Waterproof**

PheeNet Super High Throughput Wireless Backhaul are adopting Wireless TDMA MIMO technology to provide an affordable and reliable rural connectivity.

All of products are high-performance outdoor-deployable wireless bridge that provides wireless connectivity between multiple network locations.

With the high throughput and long-distance transmission, it is the appropriate Wireless backhaul solution for WISP, Telecom Carriers, Service Providers and Enterprises.

Application

Features

■ Actual reachable testing range up to 40km
■ High throughput up to 80Mbps
■ Support Bridge (PTP, PTMP)
■ High security (AES 128bit)
■ Ease of Installation (Real time Link Test for Local and Remote RSSI)
■ Transmit Power Control
■ Channel Bandwidth Control
■ Management VLAN
■ IP67 Rated Waterproof Metal Outdoor Enclosure with Vent Design

Specification

Wireless	
Standard	Proprietary TDMA + MIMO
Frequency Band	4700-4900MHz
Modulation	64QAM 3/4, 64QAM 2/3, 16QAM 3/4, 16QAM 1/2, QPSK 3/4, QPSK 1/2, BPSK 3/4, BPSK 1/2
Data Rate	Adjustable rates range for transmission data rates for MIMO single stream mode and dual stream mode
Channel Bandwidth	Advanced bandwidth: 5MHz, 10MHz, 15MHz, 20MHz, 30MHz, 40MHz, 52MHz Narrow bandwidth: 2.5MHz, 3MHz, 3.5MHz, 4MHz, 6MHz, 7MHz, 8MHz (Not ready now, by FW update)
Security	Authentication: Open System, WPA, WPA2 Data Encryption: TKIP, AES 128bit
Sensitivity	-92 dBm
Output Power	23dBm
Transmit Power Control	5 levels
Operating Mode	CPE Base Station
Software Features	Link Test Tool (Real Time Local and Remote RSSI) Spanning Tree (STP) Management VLAN NTP Client VPN Pass-Through (IPSec, PPTP, L2TP) Response Time <5ms

Management	Web-Based management Support command line over SSH Remote firmware upgradeable Support SNMP V2c, V3(private MIB, 802.11 MIB) CLI Backup / Restore System Log Remote Log Server for Event log Hardware Watch Dog Show wireless network topology in geographic map Dual firmware images to automatic recover last firmware image in case power drop in FW upgrade

Hardware	
Processor	Qualcomm Atheros AR7161
Flash	16MB
SDRAM	64MB
LED Indication	Power, Ethernet ,Wireless, RSSI (5 LEDs)
Antenna Connectors	2 x N type Female Connectors
Ethernet	10/100/1000BASE-TX auto-negotiation Ethernet port x 1 (RJ-45 connector) Auto MDI/MDI-X enabled, IEEE802.3at Power Over Ethernet Compatible
Environment	Operating Temperature: -30 ℃ ~ 80 ℃ Storage Temperature: -30 ℃ ~ 85 ℃ Humidity: 100%(non condensing)
Power Supply	802.3at POE (Injector enclosed)
Waterproof	IP67 Certificated
Mounting	Wall Mount, Pole Mount, Optional Pole Mount for Light Pole
Dimensions	259 (L) x 250 (W) x 75 (H) mm

● Spec. could be changed without further notice