

SkyZhone Carrier Class Metro Wi-Fi

Finalist for NXTcomm's Excellence in Technology Innovation Award



Z H O N E



**Models 1200, 1203, 1224, 1400, 1404,
1424, 1600, 1604, 1624**

Several promising metro Wi-Fi projects have recently become well-publicized failures, driven by narrow application support, poor technical performance, and high costs. The value of a wide array of municipal and commercial applications for metro Wi-Fi remains, nonetheless — so the question is, how can you more successfully seize this opportunity for revenue growth and subscriber retention?

The answer is SkyZhone. We've developed a metro Wi-Fi system designed to leverage your telco assets to deliver true carrier class, high-capacity, high-reliability, and low-cost service. SkyZhone incorporates a unique

combination of industry firsts, including built-in DSL backhaul, line powering, 802.11n plus MIMO, and full MSAP integration,

Over 700 service providers deploying Zhone's multi-service chassis can generate Wi-Fi revenues with a simple line card addition and access points. New Zhone deployments launching Metro Wi-Fi can leverage the same network assets for FTTx, EFM, IPTV, data, voice and video service expansion.

Philadelphia

Houston

Chicago

Wireless
Silicon Valley

Commercial and Municipal Applications

Municipal Policy, Automation, Safety

- Mobile government workforce
- Emergency response, security
- Devices (cameras, meters)
- Digital inclusion

Commercial

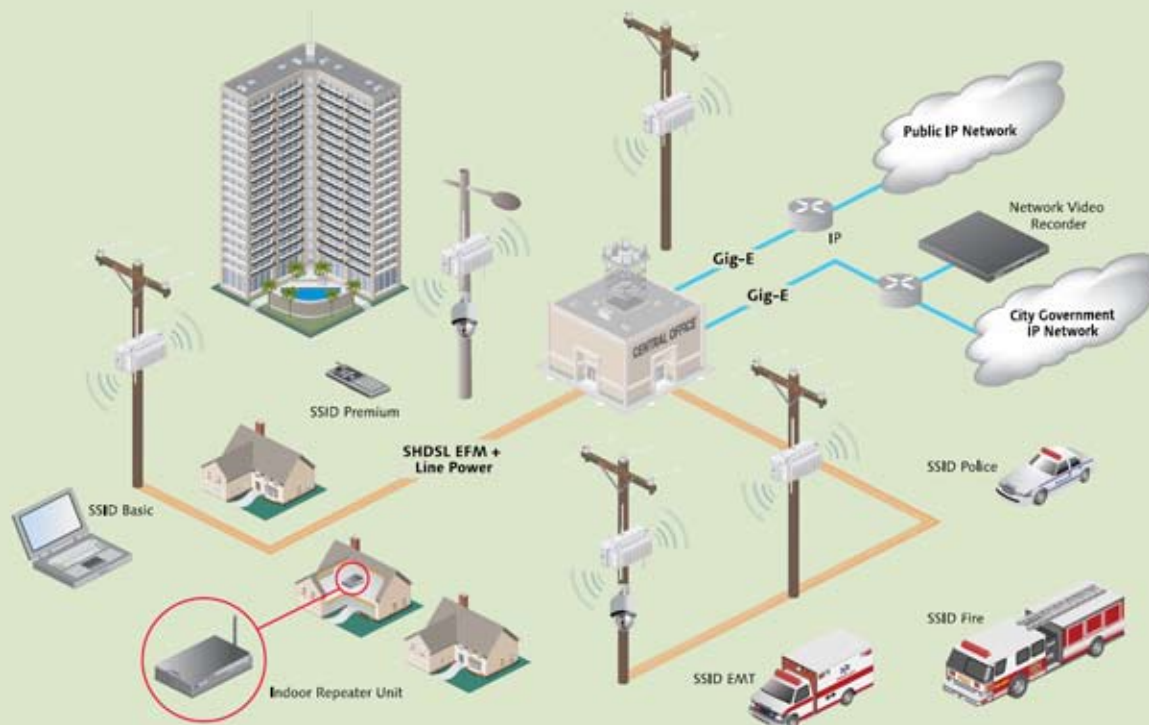
- Value-added service for local broadband customers
- Mobile businesses
- Service for transient population
 - College students
 - Resorts
 - General hotspot users
- Under- or unserved low-cost broadband access



SkyZhone Feature Overview

- **Telco-grade Reliability.** SkyZhone is engineered to provide carrier class uptime as public safety applications demand reliability. Line powering facilitates ongoing operation—even during extended AC power outages.
- **Superior Network Coverage and Performance.** An all-MIMO antenna design produces exceptional user device connectivity at distances up to **50% greater than alternative architectures.**

- **Supports True Multi-Service Environments.** A uniquely scalable solution for municipal, public safety, and consumer needs.
- **Supports Bandwidth Intensive Applications.** Up to 22 Mbps of capacity per radio and low system latency—surveillance, video, voice, and gaming applications perform to user expectations.
- **Ethernet Port for Video Surveillance Applications**

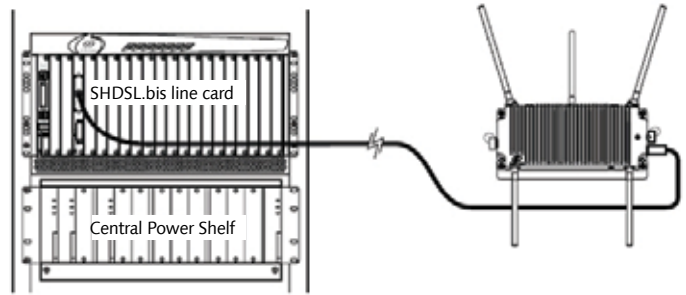


MALC – SkyZhone Central Office Aggregator

SHDSL Backhaul with Span Powering

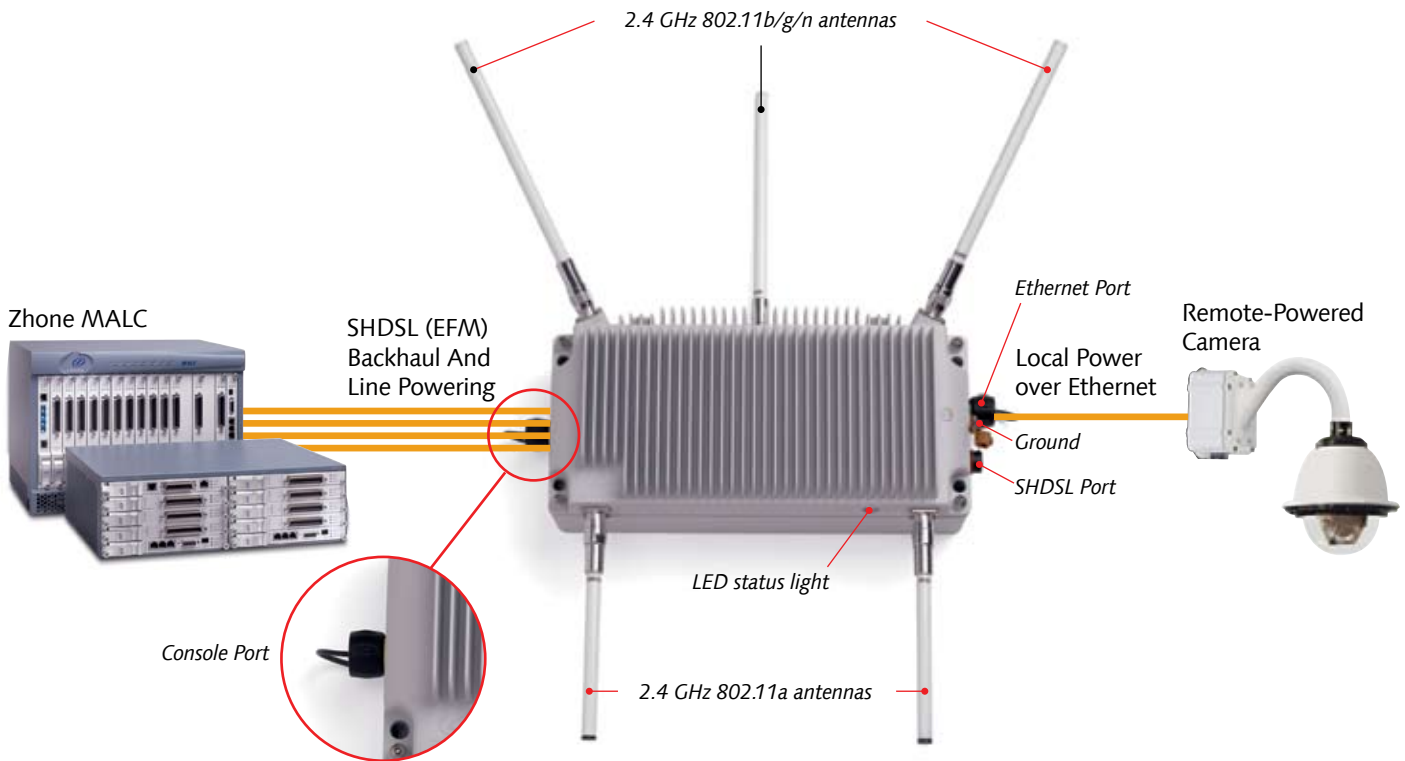
SkyZhone Wi-Fi is fully integrated into Zhone’s MALC Multi-Service Access Platform (MSAP) to deliver of any type or mix of residential and business services over copper or fiber. MALC supports core POTS and TDM services, and has all the functionality built-in for enhanced IP services including Wi-Fi, IPTV, EFM, and VoIP.

MALC is offered in a range of compact, hardened chassis supporting densities from 24 to 960 ports per shelf. Line cards, cabling, provisioning and management are common to all chassis so the MALC integrates metro Wi-Fi into a larger, converged access network.



Central Office Installation

SkyZhone Access Point



SkyZhone Advantages at a Glance

| | |
|-------------------------|------------------------------------|
| Wired Backhaul | Reliable 20 Mbps per AP |
| Line Powering | Telco-grade uptime, easier siting |
| 802.11n + MIMO | Better coverage, higher data rates |
| MSAP Integration | Simple, low-cost deployment |
| 2.4, 4.9 GHz | Broader application support |



Price List

| Access Points | | Line Powered, EFM-SHDSL Backhaul | | | |
|------------------------------------|---|----------------------------------|---------|-------------------|------------|
| | Description | 802.11b/g | 802.11a | Uplink | List Price |
| SkyZhone-1224 | Single Radio, 2.4 GHz | 2.4 GHz | | 4xSHDSL EFM | 4,995 |
| SkyZhone-1424 | Single Radio, 4.9 GHz | | 4.9 GHz | 4xSHDSL EFM | 4,995 |
| SkyZhone-1624 | Dual Radio, 2.4 and 4.9 GHz | 2.4 GHz | 4.9 GHz | 4xSHDSL EFM | 5,995 |
| Access Points | | AC Powered, EFM-SHDSL Backhaul | | | |
| | Description | 802.11b/g | 802.11a | Uplink | List Price |
| SkyZhone-1204 | Single Radio, 2.4 GHz | 2.4 GHz | | 4xSHDSL EFM | 4,995 |
| SkyZhone-1404 | Single Radio, 4.9 GHz | | 4.9 GHz | 4xSHDSL EFM | 4,995 |
| SkyZhone-1604 | Dual Radio, 2.4 and 4.9 GHz | 2.4 GHz | 4.9 GHz | 4xSHDSL EFM | 5,995 |
| Access Points | | AC Powered, Wireless Backhaul | | | |
| | Description | 802.11b/g | 802.11a | Uplink | List Price |
| SkyZhone-1200 | Single Radio, 2.4 GHz | 2.4 GHz | | Wi-Fi or Ethernet | 4,595 |
| SkyZhone-1400 | Single Radio, 4.9 GHz | | 4.9 GHz | Wi-Fi or Ethernet | 4,595 |
| SkyZhone-1600 | Dual Radio, 2.4 and 4.9 GHz | 2.4 GHz | 4.9 GHz | Wi-Fi or Ethernet | 5,595 |
| Mounting Kits | | | | | |
| SkyZhone-Pole Mount-Kit | Pole mount kit for the access point (call for wall or strand options) | | | | 249 |
| SkyZhone Cables | | | | | |
| SkyZhone-CBL-Console-5ft-9pin | 5 Foot Console Cable with DB9 connector (call for 30ft options) | | | | 79 |
| SkyZhone-CBL-Console-1x04-5ft-9pin | 5 Foot Console Cable (for SkyZhone 1x04 models) with DB9 connector (call for 30ft options) | | | | 79 |
| SkyZhone-CBL-Ethernet-5ft | 5 Foot Ethernet Cable (call for 30ft options) | | | | 79 |
| SkyZhone-CBL-Ethernet-Power-5ft | 5 Foot Ethernet and Power Cable (call for 30ft options) | | | | 79 |
| Line Power Supply | | | | | |
| CSM3536-Shelf | Line Power Shelf (1 controller slot and 12 power module slots) | | | | 1,245 |
| CSM3536-Control- Module | Control Module (1 per power shelf required) | | | | 350 |
| CSM35-Power- Module | Power Module 135 Volt (each supports 2 SkyZhone units) | | | | 795 |
| CSM3536-CBL-DC-Power | Power Module Cable (one per Line Power Module required) | | | | 39 |
| CSM3536-CBL-MALC-Line-Power | MALC SHDSL Line Card Adapter Cable (one per line card required) | | | | 99 |
| CSM3536-CBL-8820-Line-Power | 8820 SHDSL Line Card Adapter Cable (one per line card required) | | | | 99 |
| MALC Line Cards | | | | | |
| MALC-EFM-SHDSL-24-NTP | SHDSL-EFM 24 Port Line Card with Line Power option | | | | 8,500 |
| 8820 Line Cards | | | | | |
| 8986-B1-000 | SHDSL-EFM 24 Port Line Card | | | | 5,995 |
| AC DC Power Converter | | | | | |
| 8800-F3-900 | 1300W AC/DC Converter for 8820 W/1 P/S and 1PWR Cord (Only required by non-telco customers not having 48VDC at locations where MALC or 8820 and the Line Power Shelf would be installed) | | | | 3,295 |

For a complete list of SkyZhone part numbers, configuration assistance, white papers, case studies, or a demo, contact:



PSI at 201-488-6000 or
Zhone at 847-252-2905