

## Introduction

The Teletics ZipLine is a wireless system that allows up to two standard analog (POTS) phone lines and an ethernet LAN (internet) connection to be quickly installed between two buildings or locations up to 1 mile / 1.6 kilometers apart.

The ZipLine is designed to be easy to install. You will need the following tools:

- Power Drill / Screwdriver w/ Phillips bits
- 10mm nut driver / wrench
- Wire fish line

## Box Contents

The Teletics ZipLine box contains the following:

- 2 ZipLine Outdoor Radios, LINE & PHONE
- 2 power adapters
- 2 Antenna Mounts

## Cabling

Each ZipLine radio comes equipped with 30 Meters / 100 feet of outdoor rated cable which runs from the ZipLine to the Power / POTS Breakout Box, which is usually mounted in the customer's telco room.

The cable is used for the phone connections as well as power. YOU MAY SHORTEN THIS CABLE IF YOU WISH, BUT YOU MAY NOT LENGTHEN IT.

There are two connections coming out of the ZipLine. The precabled connection has the POTS lines and power, the middle connection is for Cat5e data.

## Installation

Mount the ZipLine Radios as high up as possible on both buildings. The radios must "see" each other without obstructions between them, and since radio travels in a "football" shape between antennas, you must not only have a direct path between the antennas, but the path also must be wide enough, as determined by the distance between the radios:

Radio height required by distance between radios			
Distance (mi./km)	.25 / .40	.5 / .80	1 / 1.6
Minimum Height( ft/m)	10 / 3	14 / 4.3	19 / 6

For example, if you have two buildings a half mile apart, the ZipLine radios should be 14 feet above the ground, plus the height of anything else that is in between the buildings. So, if there are delivery trucks moving between the radios, they need to be 14 above the height of the trucks, so about 30 feet up. Same rule applies for trees, etc.

There are two ZipLine radios included in each kit. There is one **LINE** unit and one **PHONE** unit. **The PHONE unit needs to be connected to a Phone at the "remote" end. The LINE unit needs to be connected to the PBX, Key System, or POTS LINE at the "main" location.**

Dial tone is locally generated on the PHONE unit, so if you reverse the radios, you will not get dial tone at the phone end. The fastest way to check if you have the correct radio at each end is to look at the color of the cable gland on the ZipLine. **PHONE ZipLine radios** have **BLACK** cable glands on the telco cable. **LINE Zipline radios** have **Beige** cable glands on the telco cable:

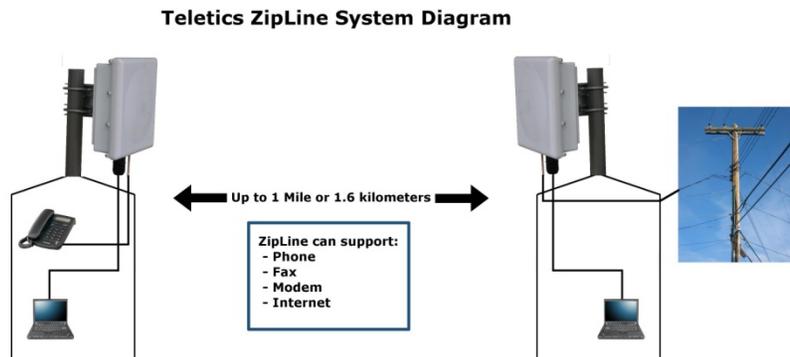


Beige (LINE) Radio



Black (PHONE) Radio

## System Diagram



## Startup / Testing / Alignment

Once you have completed the installation, try to get both radios pointing at the other as best as you can. It is essential that the radios are mounted in such a way that the cabling comes out the bottom (towards the ground).

There is a utility on the CD shipped with the ZipLine called TUtil that allows you to set the antennas to their best alignment. The manual for TUtil is on the CD.

Once the antennas have been aligned, you may test the system by dialing in and out of the phone at the remote end. You do not need to do anything different than you would for any other phone that is on the system, with one exception. If your phone system requires you to dial "9" for an outside line, you need to dial the entire phone number with the leading 9 at one time, ie. 919165551212, instead of "9" (Wait for dial tone), then the number.

## Technical Support

Support can be obtained by calling your local dealer or at

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

# ZipLine

## Quickstart Installation Manual

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