ZipLink Series

Wireless POTS & Ethernet Extenders

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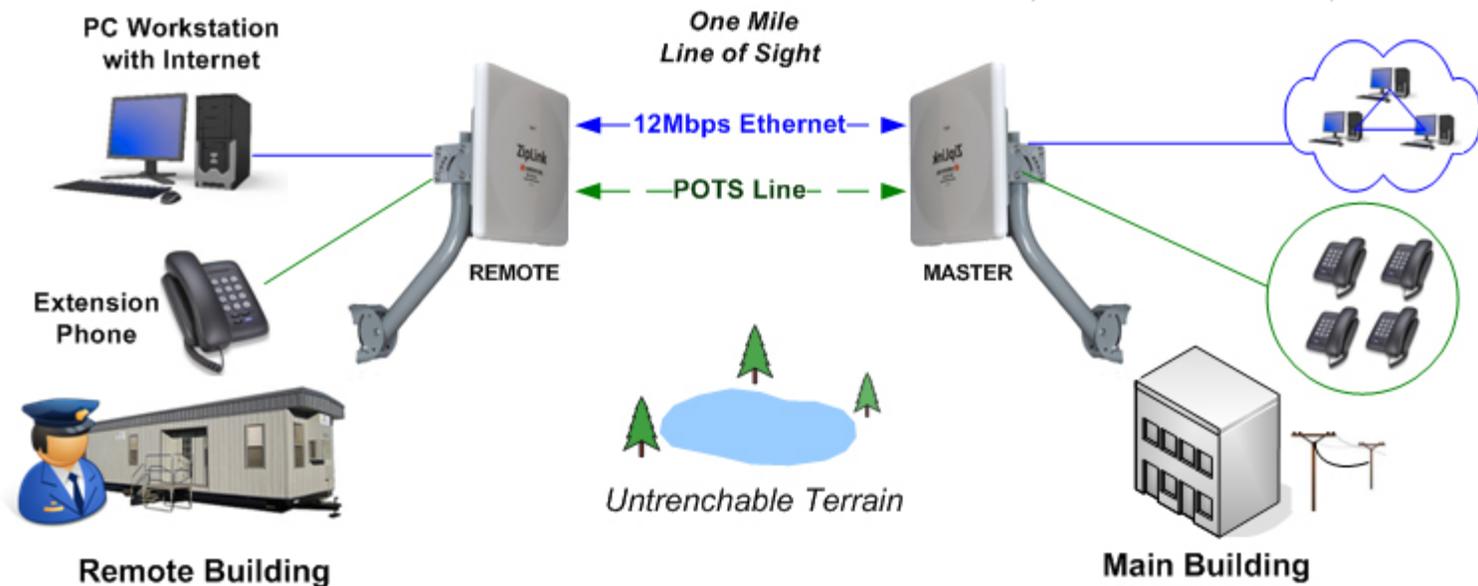
Don't Trench it---*ZIP* it!

When businesses expand, it is sometimes necessary to provide phone and internet connectivity from the main office to remote structures for a variety of purposes, such as security, communication, or monitoring.

Two typical connectivity options are **1) Aerial cabling;** and **2) Trenching.** However, unsightly aerial cables can ruin the scenic value of real estate and trenching can be expensive, intrusive to daily operations, or just plain impossible.

Don't let "Last Mile" obstacles derail your installation project or bust your budget.

Avoid trenching to hard to reach remote sites with the **ZipLink** 5.8GHz Ethernet Radio, a Wireless Phone Line & Ethernet Extender from Multi-Link. The ZipLink is a fast, affordable alternative to trenching cables through impassable terrain or across parking lots, streets, or concrete aprons. A typical trenching job would cost $3,500 to get started and average $200/hr in operations costs thereafter. At a fraction of the cost, the ZipLink could be installed and running in a few hours.

ZipLink-1 System

POTS lines and Ethernet connections are extended up to one mile line-of-sight by an encrypted 5.8GHz direct sequence radio signal. The ZipLink is an all-in-one solution that houses all electronics in a rugged NEMA-4 rated outdoor antenna enclosure. Tough enough for permanent installations in demanding conditions (-40°F to130°F), ZipLink is also ideal for temporary jobsites and can be reused again and again.

Available in Four Models:

ZipLink-1: Extend a Single analog POTS line AND 12 Mbps of Ethernet up to a mile

ZipLink-2: Extend Two analog POTS lines AND 12 Mbps Ethernet up to a mile

ZipLink-E: Extend 40 Mbps Ethernet up to a mile

ZipLink-X: Extend 80 Mbps Ethernet up to 3 miles

NEW **ZipLink-X200**: Extend 200 Mbps Ethernet up to 3 miles

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Key Benefits

- *NO trenching costs or delays - SAVE $$$!*

- *NO need for surveys or right of way maps*

- *NO direct burial or aerial cable*

- *NO radio experience necessary**

- *NO permits or licenses required*

- *Fast Installation*

- *Military grade encryption*

 * *Installer needs to be familiar with basic cabling techniques and standards*

ZipLink Features

- *WPA-PSK 256 bit AES encryption*

- *RJ11 Direct connect*

- *VoIP Grade Ethernet*

- *Public 5.8GHz Radio Band; Direct sequence for higher data throughput and minimal interference*

- *Complete working system in a box*

- *Outdoor rated*

A word about the 5.8 GHz Radio Band

The ZipLink operates at the 5.8GHz frequency of the the Industrial, Scientific, and Medical (ISM) radio bands—reserved internationally.

The shorter wave (5.17 cm) of the 5.8GHz signal is inherently resistant to radio and electrical interference as well as "rain fade". Typically, the 900MHz and 2.4GHz radio frequencies are far more crowded and can be disrupted by other equipment functioning in the same band.
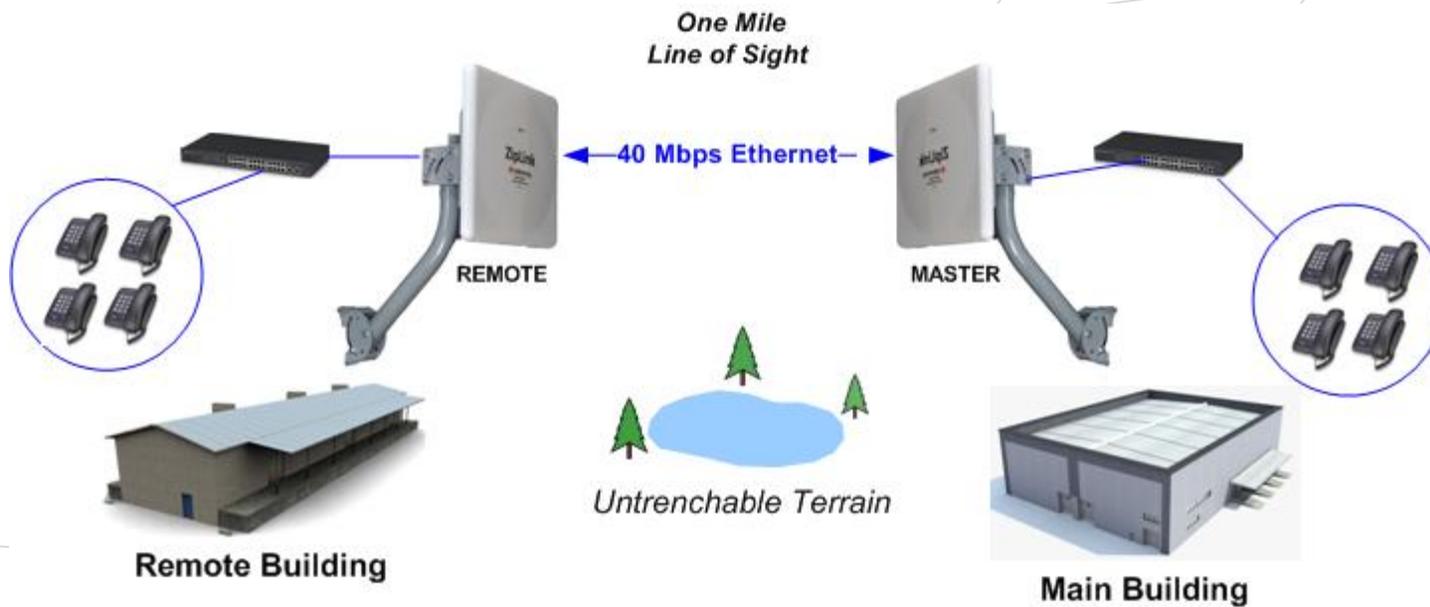
5.8GHz can also deliver higher data rates and pass through smaller openings between the two antenna points. In general, products using the higher frequencies are more compact and have better efficiency, e.g. smaller form factor antenna units.

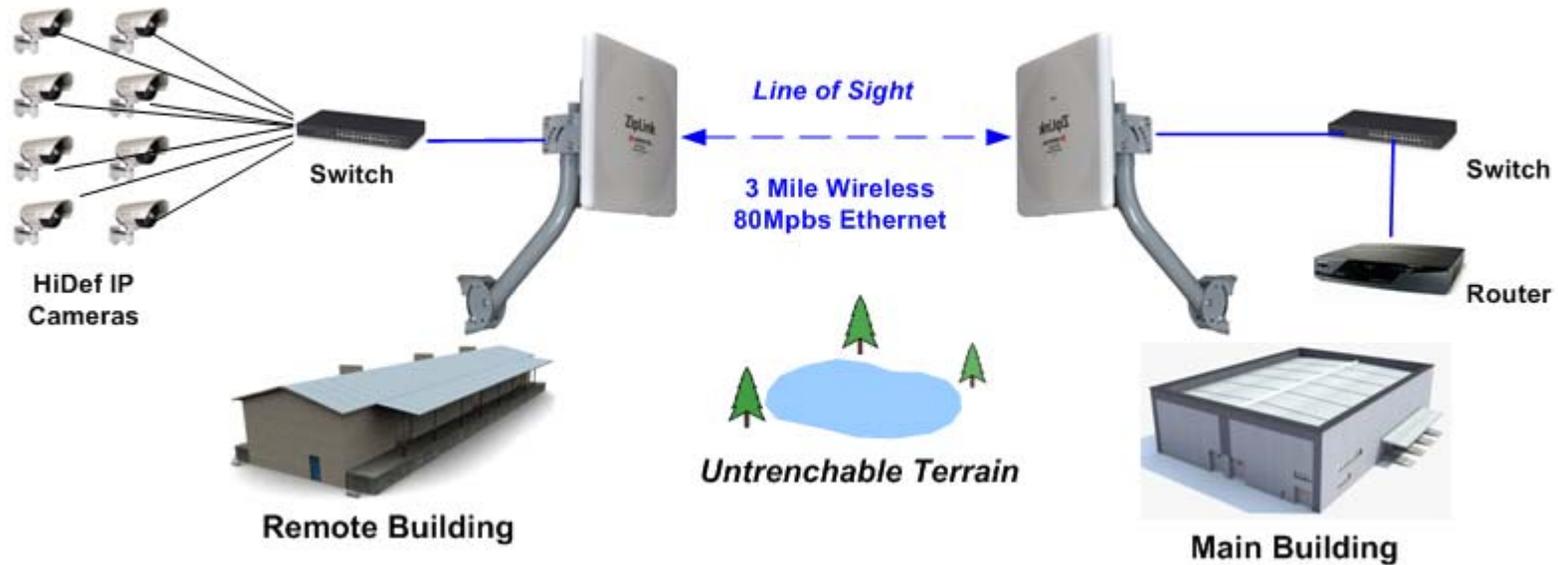# Consider a few "Last Mile" applications:

- Utility Substations

- Environmentally Sensitive or Protected Areas

- Temporary or Emergency Communication Restoration

- School/Work Campuses

- Point-of-Sale System/Credit Card Terminals

- Fuel Tank/Card Lock Systems

- Truck Stops

- Horse Farms

- Golf Courses

- Vineyards

- Marinas/Boat Docks

ZipLink-E for VoIP Connectivity

One Mile
Line of Sight

◄—40 Mbps Ethernet—►

REMOTE

MASTER

Untrenchable Terrain

Remote Building

Main Building

The ZipLink-E provides Ethernet bandwidth to accommodate 100's of VoIP calls at the same time, with remaining bandwidth left for internet access. Building structures can be up to a mile away.

ZipLink-Xtreme for Video Surveillance

Depending on resolution, frame rate, compression, and other variables the ZipLink-Xtreme can deliver connectivity to up 10 Hi-Res IP cameras.

ZipLink-Xtreme's 80 Mbps bandwidth can also support hundreds of VoIP connections plus office internet, or a midsize LAN with room to spare.
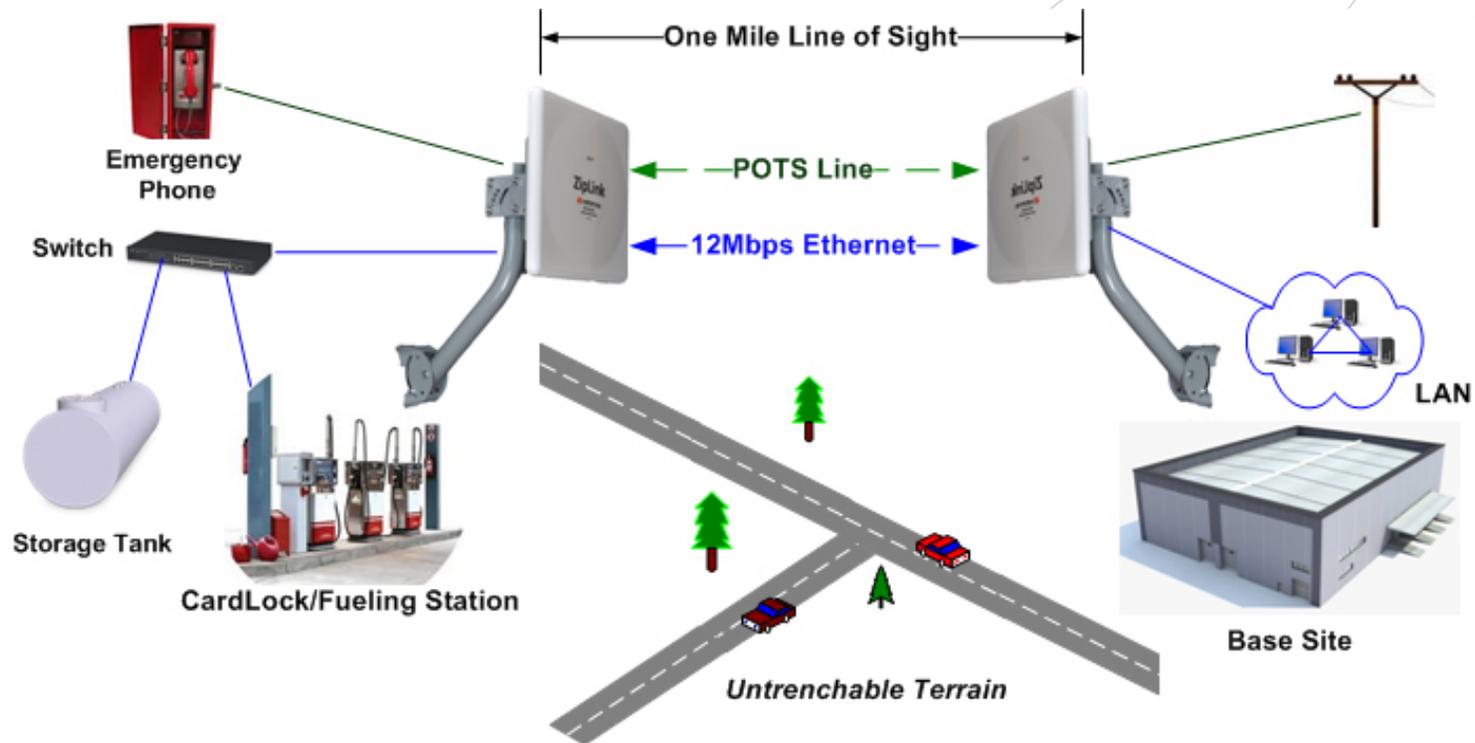
What's in the box?

ZipLink ships as a complete working system

• **MASTER and REMOTE end radios; Pre-configured as working pair**

• **2 x power adapters (POE injectors for ZipLink-E and Xtreme models)**

• **2 x 100 ft. of outdoor Cat 3 cable (Cat 5e for ZipLink-E and Xtreme models)**

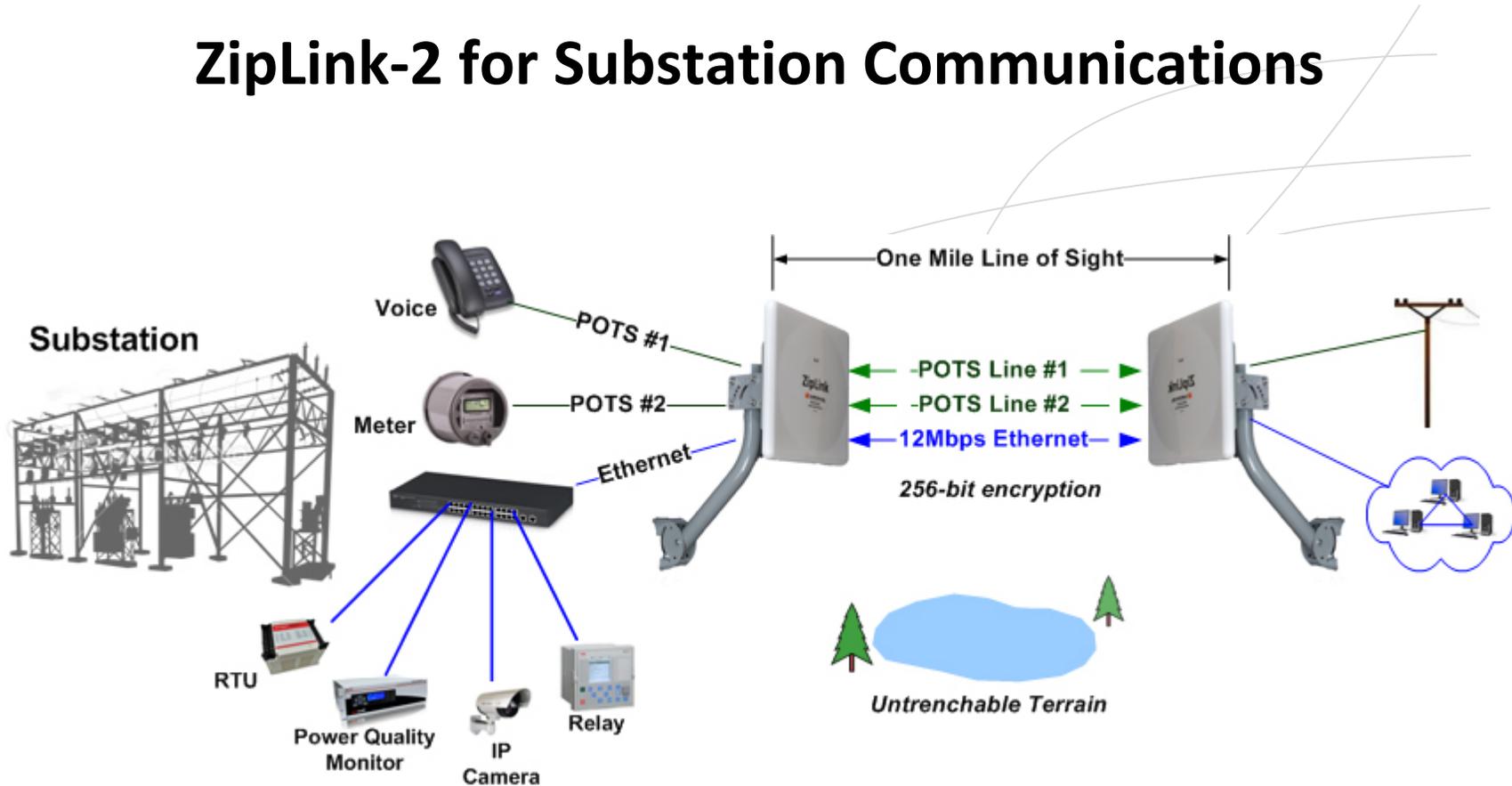• **2 x wall pole mount and brackets & all necessary screws, nuts, lock washers**
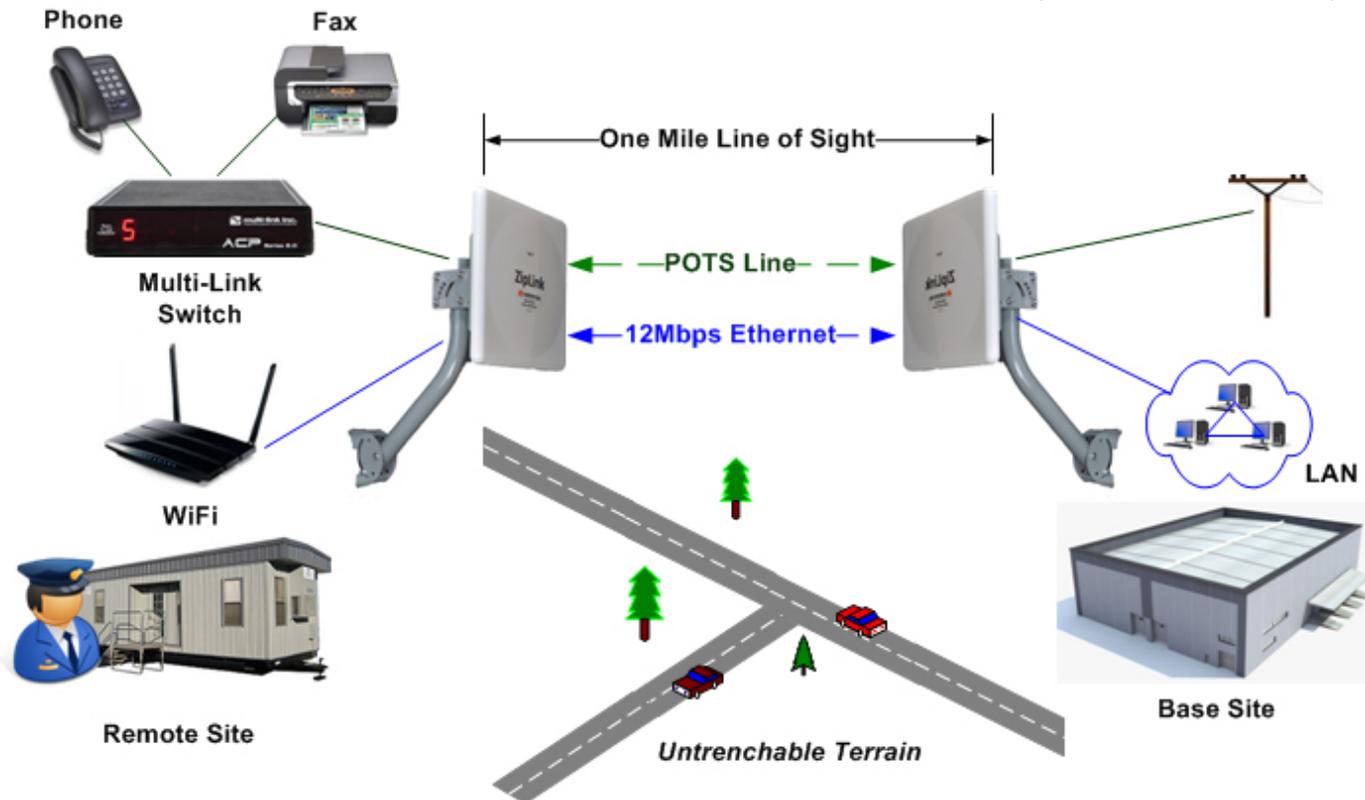
ZipLink-1 for Fleet Fueling Station

In addition to the ZipLink providing normal dial tone for phones, it can support "hotline" phone applications as well. All transmissions are encrypted, providing an <u>extra layer of security for credit card transactions</u>.

ZipLink-2 for Substation Communications

Since the POTS connection is wireless, there is no need to install a high voltage telecom interface to stop ground potential rise from damaging the PSTN.

ZipLink-1 for Job Site

The ZipLink can support internet, phone, and fax connections for temporary job sites, construction trailers, and guard houses. Line-sharing switches (ACP, The Stick) can expand telephony device interface.

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