

## Re: OT: Long range phone/intenet connection

**Source:** <http://sci.tech-archive.net/Archive/sci.electronics.design/2004-09/2956.html>

---

**From:** Charles Edmondson ([edmondson\\_at\\_ieee.org](mailto:edmondson_at_ieee.org))

**Date:** 09/14/04

Date: Tue, 14 Sep 2004 09:42:08 -0700

Richard wrote:

> *Charles Edmondson wrote:*

>

>>*I have found several purely internet extension*

>>*radios, but now would also like to include my phone*

>>*line on the same link. Would consider a VoIP*

>>*connection, if I can make it point to point...*

>

>

> *For the wireless link, look at point-to-point WiFi access points in*

> *bridging mode, using directional antennas plus WPA with Pre-Shared Keys*

> *for security. (You'll need an AP from Cisco or maybe Linksys to do*

> *this.) The biggest hazard then becomes interference. Search Cisco's*

> *site for docs on WiFi bridging, tips on antennas, etc.*

>

> *For voice, VoIP is probably the best bet for sharing one RF link. You*

> *should be able to find a couple low-end Cisco routers with VoIP support*

> *- the 1700 series should do it (check eBay). You'd need an FXS phone*

> *port module on one end and an FXO port on the other end to connect to*

> *the telco and phone set. The ports can be configured in "ring down"*

> *mode (effectively like a line extender over IP).*

>

> *Watch out for 911 issues - talk to the phone company about changing the*

> *site address to your property's real location, otherwise emergency*

> *services will show up at your in-town POP instead of your home, and may*

> *also be dispatched from the wrong agency (e.g., city fire vs. Rural*

> *Metro)*

Richard,

GREAT POST! Yep, that is exactly the type of stuff I need. I know the

802.11b repeaters I am looking at are going to be about \$1200 for the

pair. How much do you think the routers will run me?

And good catch on the 911 issues. That can be a real mess to get  
straightened out if not caught right away!

--

Charlie

--

Edmondson Engineering

sci.electronics.design: Re: OT: Long range phone/intenet connection

Unique Solutions to Unusual Problems