

# Re: VHF Remote Radio Questions

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*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.basics/2005-08/msg00046.html>

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- *From:* Kitchen Man <nannerbac@xxxxxxxx>
  - *Date:* Sun, 31 Jul 2005 20:09:16 -0700
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On Sat, 30 Jul 2005 18:51:54 +0100, Fred Abse  
<excretatauris@xxxxxxxxxxxxxxxxxxxx> wrote:

>On Fri, 29 Jul 2005 19:07:00 -0700, Kitchen Man wrote:

>

>> I want to move a base station of a mobile radio system to a remote  
>> location where I hope to get better coverage, but I want to keep the  
>> mic and channel control in the present location. I have access to  
>> either an RS-232 or a DS0 line, whichever I wish to use, and the line  
>> length is less than 10 miles. The frequencies are currently allocated  
>> and on the air, so there are no problems with the bureaucracy.

>

>I think you'll find that the base station location is specified on the  
>license. I don't think there's a jurisdiction in the world that will let  
>you relocate without proper authorization. It's all part of frequency  
>use planning. They might well want a frequency change for the new location.

Thanks for your concern, but I believe I mentioned that any  
bureaucratic hurdles should not be a problem.

> I have

>> been researching VHF modems, but am unclear about design applications.  
>> Our present transmitter is operating at 50W. I was hoping for a  
>> little insight about how to go about setting up this system, and  
>> possibly some recommendations about what equipment offers the best  
>> option for implementing this type of a setup. I need to implement a  
>> selectable two-channel system. Thanks for your time and suggestions.

>

>You need a leased voice frequency line, a proper controller at the office  
>end, and proper remote interface equipment at the base station end.  
>Alternatively, you might use a UHF or microwave link. This all needs  
>approved equipment and is pretty damn' expensive.

As I mentioned, I can use either a DS0 or an RS-232 line, both of  
which exist and are available for the project. Microwave and UHF are  
out, as there is no line of sight. This is why I did not mention  
those alternatives. "Proper" equipment is the reason I made the post;  
I was hoping someone with specific knowledge could point me to same.

## Re: VHF Remote Radio Questions

>If you need to ask these questions, it suggests to me that you don't know  
>enough about what you're trying to do to be competent, or legally  
>authorized.

Your answers suggest to me that you would rather preach than offer assistance. Have you never met an engineer who needed help with a technical task? The fact that I need to ask these questions only points out a lack of specific familiarity with specific equipment.

>Consult a properly licensed engineer with the proper knowledge and test  
>equipment.

All's well. I believe that I have dreamed up a solution while camping out this weekend. Kind of how a properly licensed engineer might solve a problem – throw out feelers for suggestions, then ponder the problem while relaxing a bit on holiday. The fending off of unconstructive criticisms is all part of the day's work, I suppose.

Thanks anyway. Oh, and I do have a bit of TE lying about. No worries, mate.

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- *Follow-Ups:*

- ◆ *Re: VHF Remote Radio Questions*

- ◇ *From:* Don Bowey

- Prev by Date: *Re: switching circuit with multiple power sources*
- Next by Date: *Re: switching circuit with multiple power sources*
- Previous by thread: *Air conditioner contactor snubber.*
- Next by thread: *Re: VHF Remote Radio Questions*
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