

## Re: VHF Remote Radio Questions

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*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.basics/2005-08/msg00068.html>

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- *From:* Don Bowey <[dbowey@xxxxxxxxxxx](mailto:dbowey@xxxxxxxxxxx)>
  - *Date:* Sun, 31 Jul 2005 21:51:15 -0700
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On 7/31/05 8:09 PM, in article 7i3re118ctn3t5bhmbebis5k040sn9qfjt@xxxxxxx, "Kitchen Man" <[nannerbac@xxxxxxxxxxx](mailto:nannerbac@xxxxxxxxxxx)> wrote:

> On Sat, 30 Jul 2005 18:51:54 +0100, Fred Abse  
> <[excretatauris@xxxxxxxxxxxxxxxxxxxx](mailto: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

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> those alternatives. "Proper" equipment is the reason I made the post;  
> I was hoping someone with specific knowledge could point me to same.  
>  
>> 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.

I may be able to help, but I need you to define what you call a DS0. DS0 is only a 64kbit/s capability or capacity. Are you trying to say you have a channel in a digital facility available to you? If so, what type of channel unit does it have? What are the characteristics of the voice frequency interfaces to the TX and RX and how is the TX currently keyed?

Don

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- ***Follow-Ups:***

- ◆ ***Re: VHF Remote Radio Questions***

- ◇ *From: Kitchen Man*

- ***References:***

- ◆ ***Re: VHF Remote Radio Questions***

- ◇ *From: Kitchen Man*

- Prev by Date: ***Re: Shock Pen (Shocking Device) Please help!***

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