

Re: Acoustic Modem For A Hobby AUV

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 - *Date:* Thu, 06 Jul 2006 18:36:34 GMT
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<pbdelete@xx> wrote in message
[news:44ad51aa\\$0\\$486\\$cc7c7865@xxxxxxxxxxxxxxxxxxx](mailto:news:44ad51aa$0$486$cc7c7865@xxxxxxxxxxxxxxxxxxx)

I'm building an AUV for hobby use, however I'm having trouble whe it comes to communications. So far I've considered sending DTMF tones through 2, 2 way radios, and encoding sets of numbers on R/C equipment but neither will travel/penetrate far enough (<3m).

It needs to be a duplex system capable of transmitting 32 on/off comands and 8 values (0-255) through about 100m of water.

So far I've found lots acoutic modems except they are more for industrial use and so are rather high-spec compared to what I need.

You proberbly know that atomic subs use very low frequency less than 3 kHz asfair to send to a submarine. Maybe slightly higher frequencies would be ok in this case.

As for acoustic, maybe you could either try to use a modem + waterproofed speaker/mic. If that won't work you might have to implement your own algorithm.

And I guess I'd then have to apply some form of filter to get rid of echoes etc?

Michael

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