

**Cellular Modem**  
**Originated by Steven Hartz (U. Alaska) on Tue, 2 Apr 2013**

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Can anyone recommend a cellular modem solution for the SIKULIAQ? I would be interested in a quad band system but, am open to suggestions.

Best Regards

Steven Hartz

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**Reply From: James Caison (BIOS) on Wed, 3 Apr 2013**

Hi Steve,

I wasn't sure if by modem you meant the little portable data-only units that plug into a USB port or something more robust like a fixed cellular terminal. Since I know something about fixed terminals I'll comment on them.

Back in the mid 2000's, when I worked in yachting the Telular SX5e/5T and an Ericsson F251M were the de facto terminal units for worldwide voice and data coverage on all bands. With this setup the yachts would have fixed USA and European phone numbers with data on both.

Telular has some new models to choose from with new features, including quad band GSM (SX7T). Couple this with a Comrod AC16 or Digital Antenna 865C external antenna and it makes a nice package that can be integrated into a PBAX for voice and into the network for data.

[http://www.getwirelessllc.com/Telular\\_SX7-Terminal.php](http://www.getwirelessllc.com/Telular_SX7-Terminal.php) The SX7

If you expect 3G data speeds make sure the HSPD frequencies are compatible with your carrier as GSM freqs give you voice and 2G(EDGE) speeds only. I don't know much about 4G or LTE.

For distributing available signal throughout the vessel, for those using their own cell phones or portable modems, I have had good performance from the Wilson Electronics signal boosters.

<http://www.wilsonelectronics.com/store/index/category/47/large-areas>

YMMV,  
James

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James Caison

Marine Technical Services Manager  
R/V Atlantic Explorer  
Bermuda Institute of Ocean Sciences

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**Reply From: Toby Martin (OSU) on Thu, 4 Apr 2013**

Hey Steve,

We have had good luck with AirLink. Wecoma (and now Oceanus) has an AirLink Raven Broadband router.

Last year we had great results from an AirLink GX440 LTE in a buoy.

Toby

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**Reply From: William M. Byam (UDel) on Thu, 4 Apr 2013**

Steve,

We have also been using the Airlink products. This is a link to the latest and greatest.

Bill

[http://www.industrialnetworking.com/Manufacturers?search=ls300&utm\\_content=byam%40udel.edu&utm\\_source=VerticalResponse&utm\\_medium=Email&utm\\_term=AirLink%20C2%AE%20LS300&utm\\_campaign=Rugged%20AirLink%20LS300%20Cellular%20Gateway%20Now%20Shipping%20from%20INS](http://www.industrialnetworking.com/Manufacturers?search=ls300&utm_content=byam%40udel.edu&utm_source=VerticalResponse&utm_medium=Email&utm_term=AirLink%20C2%AE%20LS300&utm_campaign=Rugged%20AirLink%20LS300%20Cellular%20Gateway%20Now%20Shipping%20from%20INS)

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**Reply From: "Powell, Christopher M. (ODU) on Thu, 4 Apr 2013**

We just bought a GX440, just arrived last week, but I haven't installed it yet. Glad to hear about the good reviews!

Christopher Powell  
Equipment Manager  
Dept of Ocean, Earth and Atmospheric Sciences  
Old Dominion University

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**Reply From: Brent Evers (IRIS) on Thu, 4 Apr 2013**

We have about 500 Sierra Wireless Raven X modems installed in the Earthscope Transportable Array delivering about 5GB per month per station.

Brent Evers  
OBSIP/IRIS