UNAVCO Resources: Communications Options

430 Beth Bartel August 24, 2016 Comms and Networking 6257

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UNAVCO has worked with and supports the following communications options for GPS and meteorological data transmission. Click on the photograph of the hardware for more information, including specifications, how-tos, and configuration examples. UNAVCO will work with individual groups to help determine the most effective communications option for each remote site or network.

Proxicasi	Cellular Modems	Cellular modems work anywhere adequate cell service, and do not of-sight to another modem. Cost hardware and ongoing cellular se modems are currently used in the Boundary Observatory (Western BARGEN (CA, NV, UT), and N Peninsula (Costa Rica) networks
Intuicon	Radio Modems	Radio modems require line-of-si proximity, directly or via a repearmaster radio modem connected or remotely to a download compute modems can support either serial protocol, depending on make and is no ongoing service fee as there with many of the other communications, making radio modems in networks or sub-networks with sivisibility. Links can be effective depending on foliage, atmospher topography. Either serial or ether modems are currently in use in the Boundary Observatory (Western Negra (Galapagos), BARGEN (Cand Peatland Bogs (MN) networks CHPI (Brazil), TANZ (Tanz BOGT (Colombia).
NAL Research Corporation Model: ASU, SAI NOT USER SERVICE AALE WATER STATE OF THE	Satellite Communications	Satellite communications options and Iridium modems can work as worldwide; no line-of-site between required. Because of high ongoin other options are generally chose with cellular or internet availability.

		satellite communications allow defrom remote sites in sparsely or usereas. VSAT modems are current Plate Boundary Observatory (We and Puerto Rico networks; Iridius currently used in the POLENET (Antarctica and Greenland).
15 DESCRIPTION OF THE PARTY OF	<u>Wireless</u>	Cisco Aironet Wireless Bridge.
	Analog (Dial-up) Modems	Analog (dial-up) modems work versions is available. These modems as useful for sites with direct phone master download sites. Because the generally faster options, analog in decreasingly used but still transfer many sites established in the past Analog modems are currently in BARGEN network (CA, NV, UT).
111111	Short-haul Modems	
	Serial to Ethernet	Serial to ethernet devices are type interface older, serial-based recent Trimble 4000) with an ethernet of They are also used to connect serial to ethernet devices are curthe BARGEN (CA, NV, UT) and Bogs (MN) networks and at IGS (India).

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