

NAL RESEARCH CORPORATION

Atmospheric Sensor Research and Development

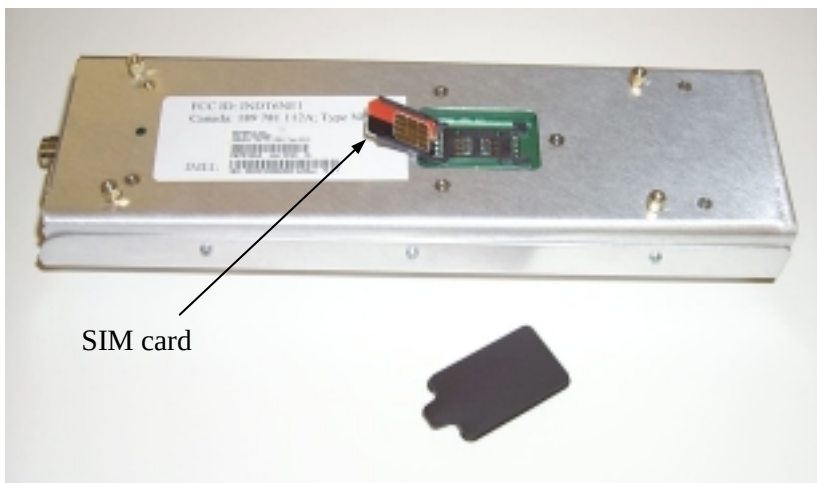
Instructions

- 1) Remove cover located on the bottom of the Iridium modem (some units are shipped with covers not installed).



Rubber cover

- 2) Slide the SIM card bracket in the direction indicated by the arrow and lift up the bracket. Place the SIM card (facing down) into the SIM bracket as shown in picture below.



SIM card

- 3) Lower the SIM bracket and lock the SIM bracket by sliding in the reverse direction indicated by the arrow. Replace the cover.



- 4) Connect an external antenna to the Iridium modem. Make sure the antenna has full view of the sky.
- 5) Connect the 9-pin serial port to an external device (computer) using any standard straight through RS-232 cable (local Radio Shack stores do carry these cables).
- 6) Supply 4.4VDC (can range from 4.0VDC to 6.0VDC).
- 7) Highest current drawn will be at power-up and approximately 2.2A@4.4VDC for less than 500 milliseconds.
- 8) Wait for about 15 seconds for the modem to establish connection with the satellite network.
- 9) The LED light on the bottom of the modem should flash GREEN as shown in figure below. If the LED light flashes RED or RED/GREEN, then the modem is not properly registered with the satellite network. In case of the LED light flashes RED or RED/GREEN, power the unit down and wait for approximately three minutes before power the unit back up again. If the problem still persists, check the followings:
 - a. Antenna has a full view of the sky
 - b. PIN number has been removed from the SIM card by the Iridium Service Provider
 - c. Power source provides enough current



10) Use Hayes modem commands (included in the package) to communicate between the modem and external device.

11) Examples:

- To make a phone call to a land-line phone execute the following:
ATD 001 + phone number or
ATD 0017033925676
- To make a phone call to another Iridium modem (or phone) execute the following:
ATD 00 + phone number or
ATD 00881631049875

12) Recommended antenna cable types are listed below. Cable of any length can be used, however, make sure the signal loss is no more than 3dB.

- LMR-195-PVC Coaxial Cable (Time Microwave Systems, 800-867-2629, <http://www.timesmicrowave.com>)
- LMR-240 Coaxial Cable (Times Microwave Systems)
- Andrew C2FP Coaxial Cable RG-8/U
- Coaxial Cable RG-6 (Radio Shack)