

# UNAVCO POLAR IRIDIUM MODEM CONFIGURATION FORM

Config Form Version: **4.0**

Date: \_\_\_\_\_

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Project / Network: \_\_\_\_\_

System ID: \_\_\_\_\_

Configured by: \_\_\_\_\_

Upon completion this hardcopy is placed in the appropriate network folder with the Polar Network Operations Engineer.

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Manufacturer: \_\_\_\_\_  
Model: \_\_\_\_\_  
UNAVCO ID: \_\_\_\_\_  
Serial Number (IMEI): \_\_\_\_\_

## **FOR DIAL-UP MODEMS**

**REMOTE  
MODEM**      **BASE  
MODEM**

Connect to serial port using Hyperterm or other emulator. 19200, 8, N, 1, N.

ATI3                    (show firmware version)                    \_\_\_\_\_

*NAL A3LA-SA, -D, -MPT: IS06000 or higher*

*NAL A3LA-X or -XM, Beam RST600, Xeos (Iridium) 9522B: ST10001*

*Note: If new firmware released for 9522B modems, it is possible to revert back to ST10001, using the firmware loader program on CFC: \Polar\Equipment\Iridium\*

AT&F0                    (reset to factory defaults)

AT&D0                    (no flow control)

AT&K0                    (no handshaking)

AT+IPR=6,0              (baud = 19200, disable auto baud)

ATS0=1                    (answer on first ring)                    N/A

ATQ1                      (quiet mode)                                N/A

AT&W0                    (write settings to profile 0 for boot up)

AT&V                      (view settings; verify as below)

**REMOTE MODEM:** Verify both ACTIVE PROFILE and STORED PROFILE 0

Q1                        &D0                        &K0                        S00:001                        S23:060

**BASE MODEM:** Verify both ACTIVE PROFILE and STORED PROFILE 0

&D0                        &K0    S23:060

***FOR XEOS RUDICS MODEMS***

Connect to monitor serial port using *Hyperterm* or other emulator. 38400, 8, N, 1, N.

Check XI-100 firmware version            *XI-100: 3.88.1664*            \_\_\_\_\_  
(View startup messages)

Check Iridium firmware version            *9522B: ST10001 or higher*            \_\_\_\_\_  
  \$engmode 2009            (enter engineering mode)  
  \$ii 1            (enter interactive mode)  
  \$i ATI3            (send ATI3 command to 9522B board)  
  \$ii 0            (exit interactive mode)

Set heater temperature threshold to -15C  
  \$hrtemp -15

Disable external sensor  
  \$enable s 0