

# CONSTELLATION

CREATING RELATIONSHIPS

## [Quick Reference: iDIRECT NetModem](#)

### To load option file:

Need Windows 2000 OS.

- 1) Open Hyperterm (terminal settings - COM1/9600/8/NONE/1/NONE)
- 2) Connect DB-9 - RJ45 cable to COM port.
- 3) Type LANINFO (return)
- 4) Get current IP and subnet of NetModem
- 5) Goto START > SETTINGS > NETWORK and DIAL UP CONNECTIONS (right click and select PROPERTIES) > select Internet Protocol (TCP/IP) then select PROPERTIES > see below for correct entry...

IP address = NetModem IP +1 (ex.208.248.85.22)

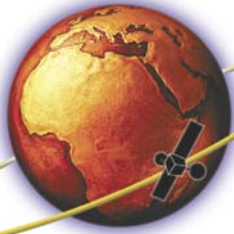
SUBNET MASK = same as NetModem (ex. 255.255.255.252)

Default Gateway = NetModem IP (ex. 208.248.85.21)

Primary DNS = 130.244.127.162

Secondary DNS = 130.244.127.170

- 6) You are now able to talk to NetModem w/ NetManager connect crossover cable and start NetManager. NetManager will ask for NetModem IP
  - 7) To load Option file: FILE > LOAD MODEM CONFIGURATION FROM DISK > review and confirm new option on GUI
  - 8) To save option file to NetModem FILE > SAVE CURRENT CONFIGURATION TO MODEM > reset unit
  - 9) Since the IP will have changed, to talk with NetModem using NetManager again repeat steps 3 - 6.
- Note that the primary and secondary DNS does not change.

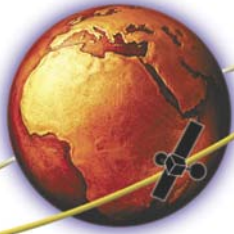


## Quick Reference: *iDIRECT* NetModem (cont'd.)

### To load image files:

Need Windows 2000 OS.

- 1) Open Hyperterm (terminal settings - COM1/9600/8/NONE/1/NONE)
- 2) Connect DB-9 - RJ45 cable to COM port.
- 3) Type LANINFO (return)
- 4) Get current IP and subnet of NetModem
- 5) Goto START > SETTINGS > NETWORK and DIAL UP CONNECTIONS (right click and select PROPERTIES) > select Internet Protocol (TCP/IP) then select PROPERTIES > see below for correct entry...
  - IP address = NetModem IP +1 (ex.208.248.85.22)
  - SUBNET MASK = same as NetModem (ex. 255.255.255.252)
  - Default Gateway = NetModem IP (ex. 208.248.85.21)
  - Primary DNS = 130.244.127.162
  - Secondary DNS = 130.244.127.170
- 6) You are now able to talk to NetModem w/ NetManager connect crossover cable and start NetManager . NetManager will ask for NetModem IP
- 7) To load Option file: CONFIGURE > DOWNLOAD MODEM IMAGES review and confirm existing images in MODEM VERSION (2<sup>nd</sup>) column. If all images are current no need to DLL new.
- 8) Press SELECT and select appropriate loader file (\*.ldr). Compare IMAGE VERSION column to MODEM VERSION. Deselect COMPRESSION and select ERASE for all which you intend to DLL. Use DEFRAGMENT only when DLL application (DLL application separate from other image files).
- 9) Modem requires reset for new application / images to take effect.

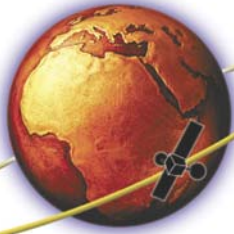


## Quick Reference: *iDIRECT* NetModem (cont'd.)

### **To Point with DVM (Digital Volt Meter)**

Option file for specific site must be loaded prior since it will be searching for its' downstream carrier.

- 1) Antenna 20° off satellite
- 2) DVM connected to Tx Cable (via banana jack) from NetModem and RX cable from LNB to Rx IN on NetModem.
- 3) Open NetManager > CONFIGURE > NETMODEM CONFIGURATION > ANTENNA POINTING > BEGIN ANTENNA POINTING
- 4) With elevation set swing through azimuth (very slowly).
- 5) When value jumps tweak it in (both elevation and azimuth) there is no absolute ... but value should be approx 15 -20 VDC.
- 6) Installer can also use graphical representation in NetManager to aid in pointing.



## Quick Reference: *iD*IRECT NetModem (cont'd.)

### Things to look for

- 1) Option file S/N matches Board S/N.
- 2) NetModem should perform self-test, load images and turn DC power on to both Rx and Tx and 10 MHZ ref to Tx (Rx 10 MHZ off). Look for failure during startup.
- 3) At that point NetModem should get TDM Frame Lock (Lock onto downstream carrier). If not problem in Rx path (LNB, Rx cable / connectors, De-modulator or error in options file).
- 4) Receive TIMEPLAN from Hub. If no time plan verify with NOC that Hub NetModem is sweeping for remote.
- 5) Receive First COMMAND.
- 6) The NetModem should burst TDMA and come into the Network. If it just SWEEPS problem in Tx Path (BUC, Tx cable / connectors, Modulator or error in options file).
- 7) Once NetModem has come into Network you should be able to PING IP addresses and surf net. If you cannot, verify your laptop TCP/IP settings are set to following.

IP address = NetModem IP +1 (ex. xxx.xxx.xx.178)

SUBNET MASK = same as NetModem (ex. 255.255.255.252)

Default Gateway = NetModem IP (ex. xxx.xxx.xx.177)

Primary DNS = 130.244.127.162

Secondary DNS = 130.244.127.162