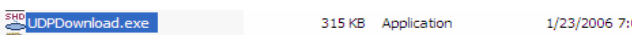
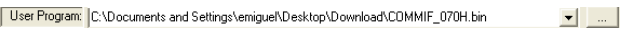
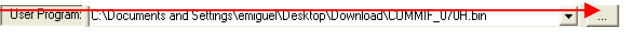
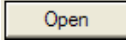
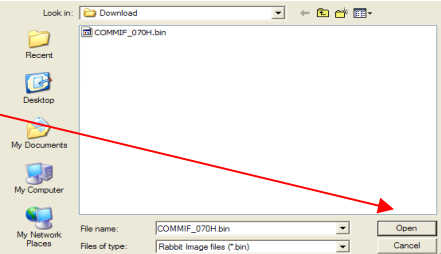
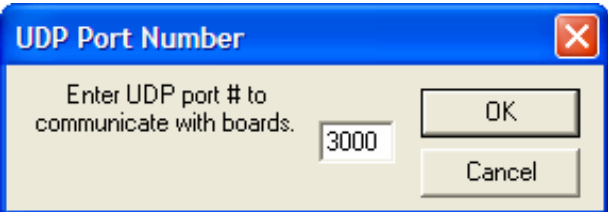
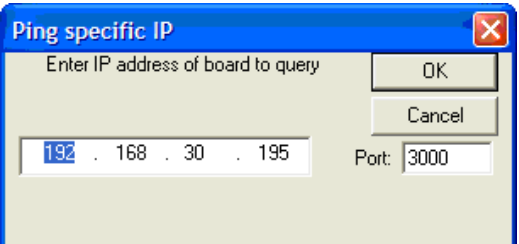
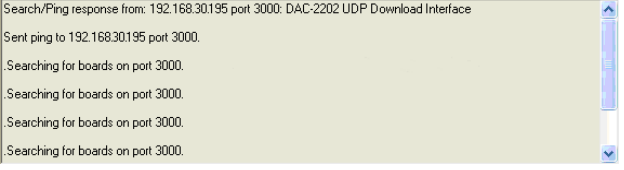
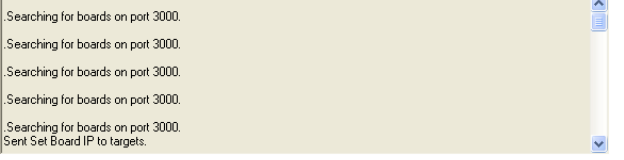
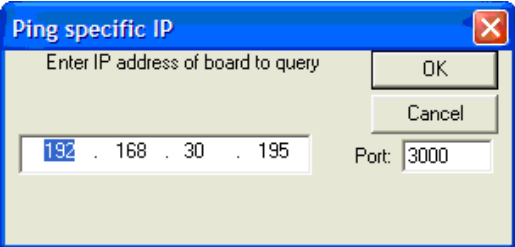
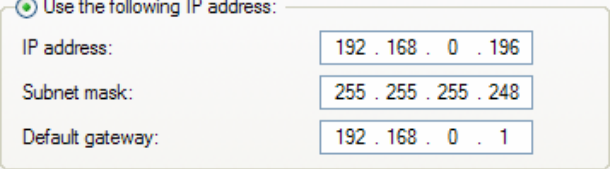
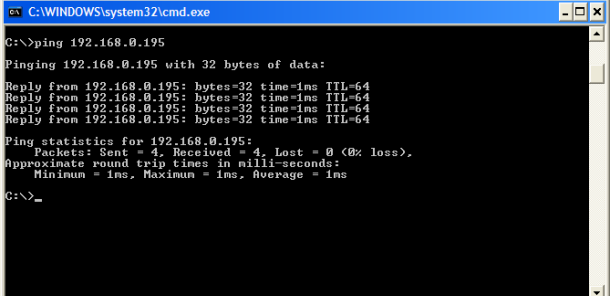
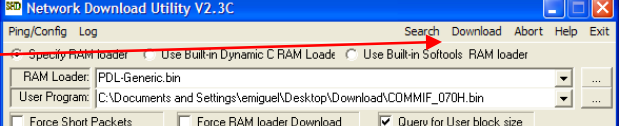
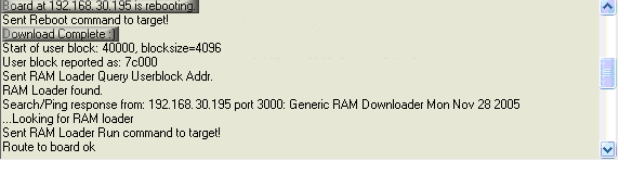


1.1. Communications Interface (CommIF PCB) Software Upload Instructions

The newly released antenna control has implemented an embedded Rabbit© 3720 controller (known as the "Comm IF PCB") into the 68HC908 based DAC-2202. The addition of the Comm IF PCB adds 3 serial ports (M&C, NMEA A, and NMEA B) 2 TCP/IP connections, 1 UDP connection (Rabbit Module update port), a Web server and processing power for future ACU releases. This document describes the process of uploading software to the Rabbit Module using 3rd party Network Download Utility Software (UDPDownload.exe, Contact the Sea Tel Service Dept for a copy).

1. Connect the "ETHERNET" port on DAC-2202 to a Local Area Network (LAN) Connection using a standard CAT5 cable that has its IP address, subnet mask, and Gateway parameters match that of the DAC2202's Ethernet port.	Factory default IP address for all ACU Ethernet Ports is 192.168.30.195. If this has been changed to match an existing network, refer to the instructions in the Maintenance & Troubleshooting section (Configuring the COMM IF ports of the DAC2202 ACU) in the DAC2202 Manual
2. Power on DAC2202	
3. Start the Network Download Utility called "UDPDownload.exe"	
4. Ensure that the "RAM Loader" displays as PDL-Generic.bin	
5. Ensure that the "User Program" field displays the file location & is current software version. If correct, skip ahead to step 9. If incorrect, continue on to step 6	
6. Select the  icon	
7. Browse to the location where the bin file is stored.	
8. Select the  icon.	
9. Click on "Ping/Config" then "UDP Port" and enter 3000	
10. Press "Reset" key on front panel of ACU.	
11. Click on "Ping/Config" then "Ping Specific IP" and enter the address of the DAC2202 then click OK. (One time only)	

12. Verify "Search/Ping Response from: 192.168.30.195 port 3000: DAC-2202 UDP Download Interface" is displayed in bottom Dialog Box and skip ahead to step 13 if this step fails continue on to 12a.	
12a. If "Searching for boards on port 3000." continuously displays on bottom dialog box after sending Ping Request, then the Comm IF PCB is NOT communicating with computers Ethernet port. <u>Possible Failure:</u> Network Download Utility not configured correctly Check: Verify IP address and Port Number entered in step 11 matches that of the ACU. (Factory Default IP address is 192.168.30.195 with a Subnet mask of 255.255.255.248) Check: Verify "RAM Loader" and "User Program" parameters entered in Steps 4 and 5. <u>Possible Failure:</u> Laptop Ethernet Port settings not configured correctly. Check: Verify computer LAN port has been configured with a static IP address on the same Subnet as DAC2202. <u>Possible Failure:</u> UDP Port Lockout Check: The UDP port is only open for a limited time frame after ACU is powered up or Reset button is pressed. First verify ability to Ping ACU Ethernet Port using windows Command Prompt. If successful, go back to step 7.	   
13. Click on "Download" in the upper right hand corner to start the download process.	
14. Verify dialog box displays "Download Complete:)" 15. Verify the Network Download Utility sends a Reboot command to the ACU and that the ACU echo's back "Board at 192.168.30.195 is rebooting"	
16. Close Network Download Utility by clicking on "Exit"	