Updating RT-130 Firmware
2005.175

This procedure should be used to update the firmware of the RT130 DAS. In a nutshell, the RT130s update their firmware from a special file copied to a CF card that is placed into the RT130 before it is powered up.

1. Obtain a copy of the firmware. This can normally be found on the REF TEK ftp site at

    ftp://ftp.reftek.com/pub/130/cpu

In that directory there will be a "zip" file named something like "2_6_1.zip". Replace "2_6_1" with the version number of the firmware that you are looking for. The file must be downloaded to the computer you are working on and can be 'unzipped' on a computer running UNIX/Linux with the program gunzip, or on a computer running Windows with either the "Extract All..." command in the context menu (WinXP), or with some program like WinZip.

2. Inside the unzipped directory/folder created above will be the file "main.s3". This is the firmware file. Get a CF card mounted/inserted into the computer you are working on. This is the same kind of memory card that the RT130s use to record their data to. Copy the main.s3 file to the memory card. At this point, if you know how, you can set the file attributes of the main.s3 file to be 'read only'. If you do not know how to do this it is not that important.

3. Unmount/remove the CF card from the computer.

4. Power down the RT130 that you want to update the firmware on. Insert the CF card with the main.s3 file into one of the RT130 card slots. Remove any card that might be in the other slot. Leave the cap off of the disk well so you can observe the red/green LED.

5. Connect power to the DAS. The first line of the LCD screen should turn into a black bar for a few seconds, then the message "DISK IN USE, DO NOT DISTURB" should be displayed and the red LED in the disk well should come on. This will continue for about 1min 20sec.

6. When the LCD message changes to "UPDATING FLASH, DO NOT DISTURB", and the LED changes to green the CF card may be removed.

    a. If you were able to change the main.s3 file attributes to 'read only' in Step 2, you must remove the CF card before it finishes updating the firmware (i.e. during Step 6), otherwise when the DAS finishes and reboots itself it will see main.s3 on the card and start all over.

    b. If you were unable to change the main.s3 file attributes to 'read only' then when the RT130 finished reading the card and started updating the firmware it erased the main.s3 file. If you have more than one RT130 to update you will have to copy the main.s3 file to the card again.