



## **KERNEL RECOVERY INSTRUCTIONS**

### **EVO\_AN\_005A**

First, please make a serial lead with a 9 Way D Female connector at each end (DB9):

PC pin-2 to Modem pin-8  
PC pin-3 to Modem pin-4  
PC pin-5 to Modem pin-1

You also need the ulmage file extracted from your target software version .zip file. (Or if you have been sent the appropriate Kernel, unpack P3000-x.x.x kernel.zip file with WinZip or similar)

Connect the cable between the Modem 1:N port and PC com port, then open HyperTerminal (HT) on your PC. Set HT to 9600baud with 8 data bits, one stop bit, no parity and no flow control. Apply power to the Modem. You should see instantly the boot-up sequence of the modem in HyperTerminal, if you cannot then the config is wrong on the PC or you have the wrong com port.

Once you can view the boot-up sequence you should hit [return] on the PC keyboard to halt the boot-up process, you can only do this when prompted so read the boot-up sequence carefully, you get about 1 second to catch it.....

Once you have caught the boot-up sequence you should:

- 1. Press <Return>, look for '=>' prompt.**
- 2. Type: set baudrate 115200<Return> (change HT baud rate also)**
- 3. Type: loadb 200000<Return>**
- 4. In HT select: Transfer -> Send File, select 'Kermit' as protocol and 'ulmage' file.**  
(This should only take a few minutes!)
- 5. When the transfer is complete, type:** (Please note, you need to type ALL of the following text, including (filesize) as this is automatically selected for you!)

**erase fe080000 fe1bffff <return>**

**cp.b 200000 fe080000 \$(filesize)<return>**

- 6. The Modem can now be reset (power cycled). Then using the recovery procedure, please download the latest version of software to the Modem. This procedure is available as a separate application note.**