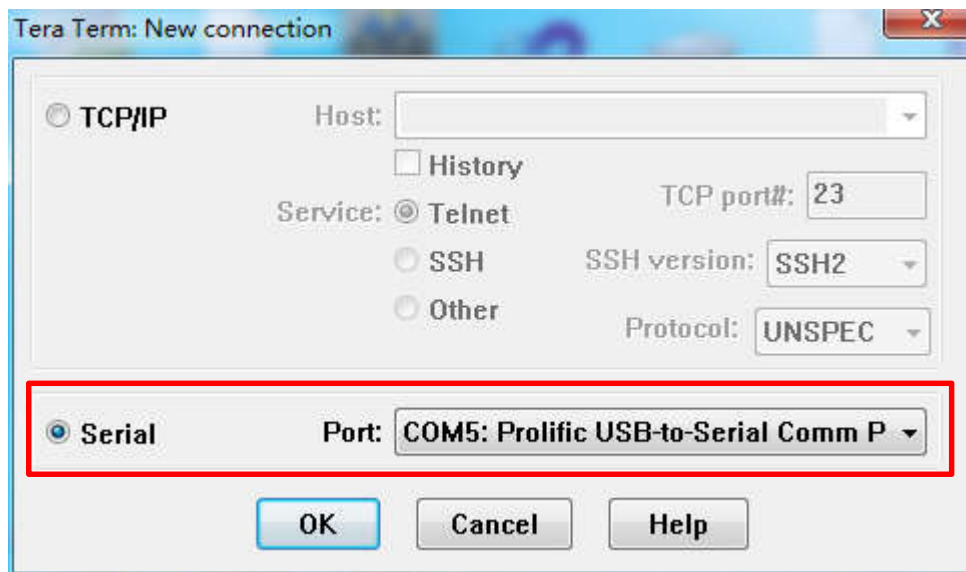


### Step 1 make X5105 into bootloader mode:

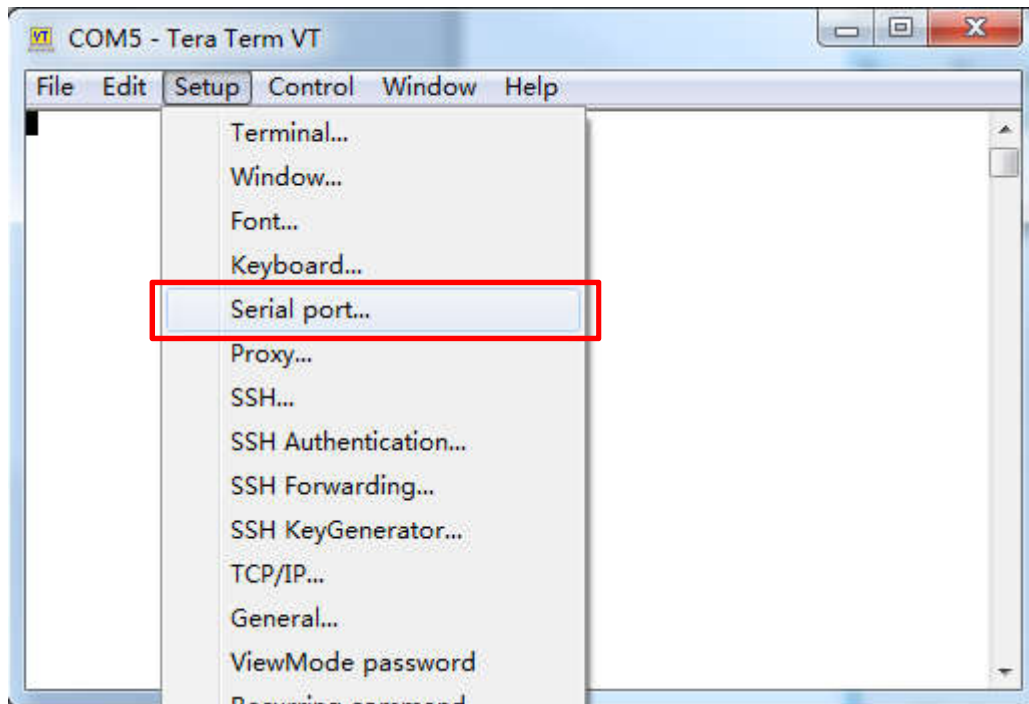
- ◆ Make sure X5105 is switched OFF.
- ◆ Make sure your power supply source is switched OFF.
- ◆ Make sure the power cable is connected.
- ◆ Press both VOL+ and VOL- buttons.
- ◆ Turn ON the power supply source.
- ◆ Check if the DATA LED is blinking. If NOT, do step 1 again.

### Step 2 select serial port:

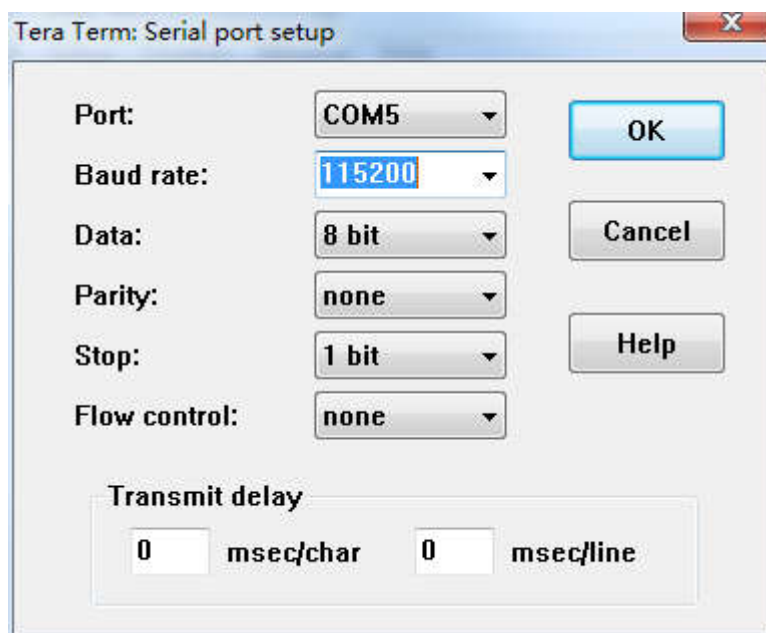


- ◆ Click the **dropdown list** and select the serial port which attach to X5105.
- ◆ Click OK.

### Step 3 configure the serial port:

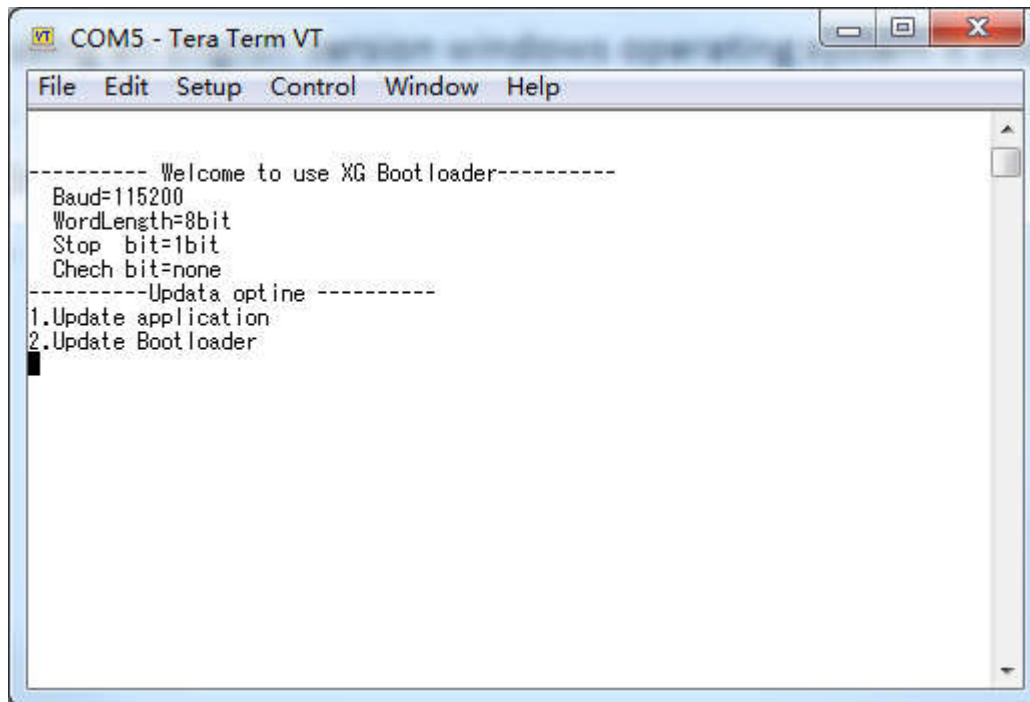


◆ Click **Setup** → Click **Serial port...**

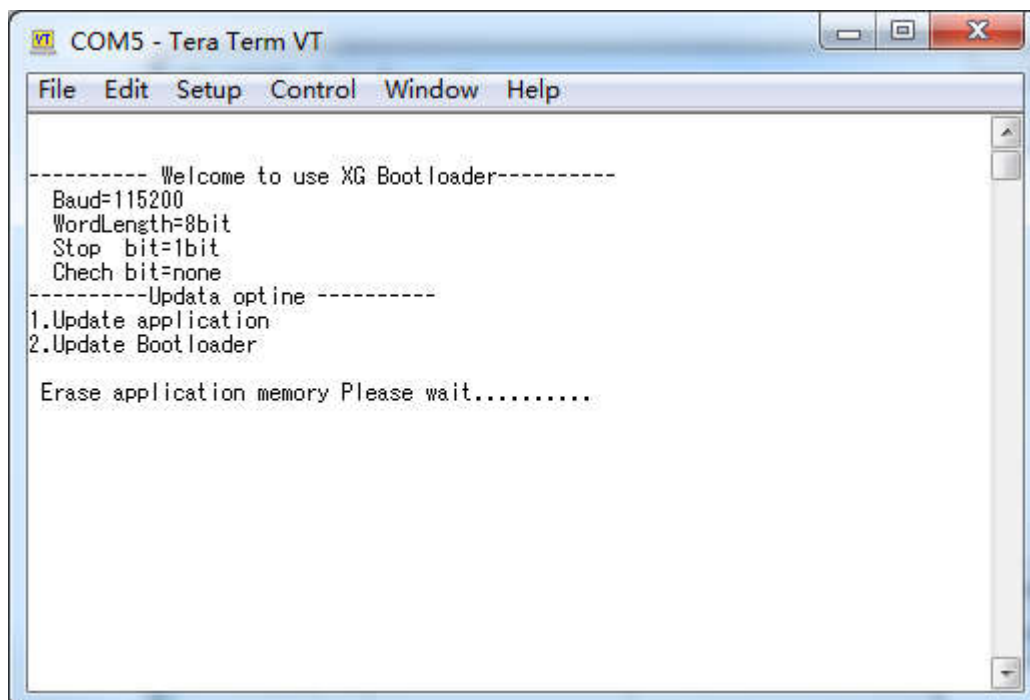


◆ Click **Baud rate** dropdown and select **115200**.

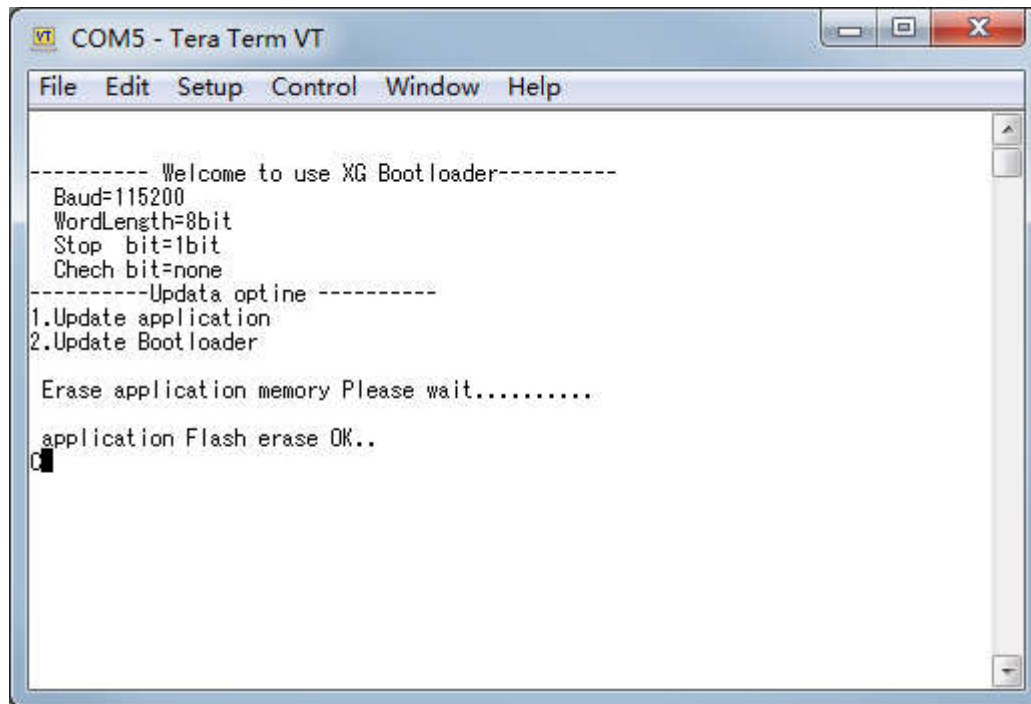
#### Step 4 use the XG bootloader:



◆ Press 1 to apply internal flash erasing operation.



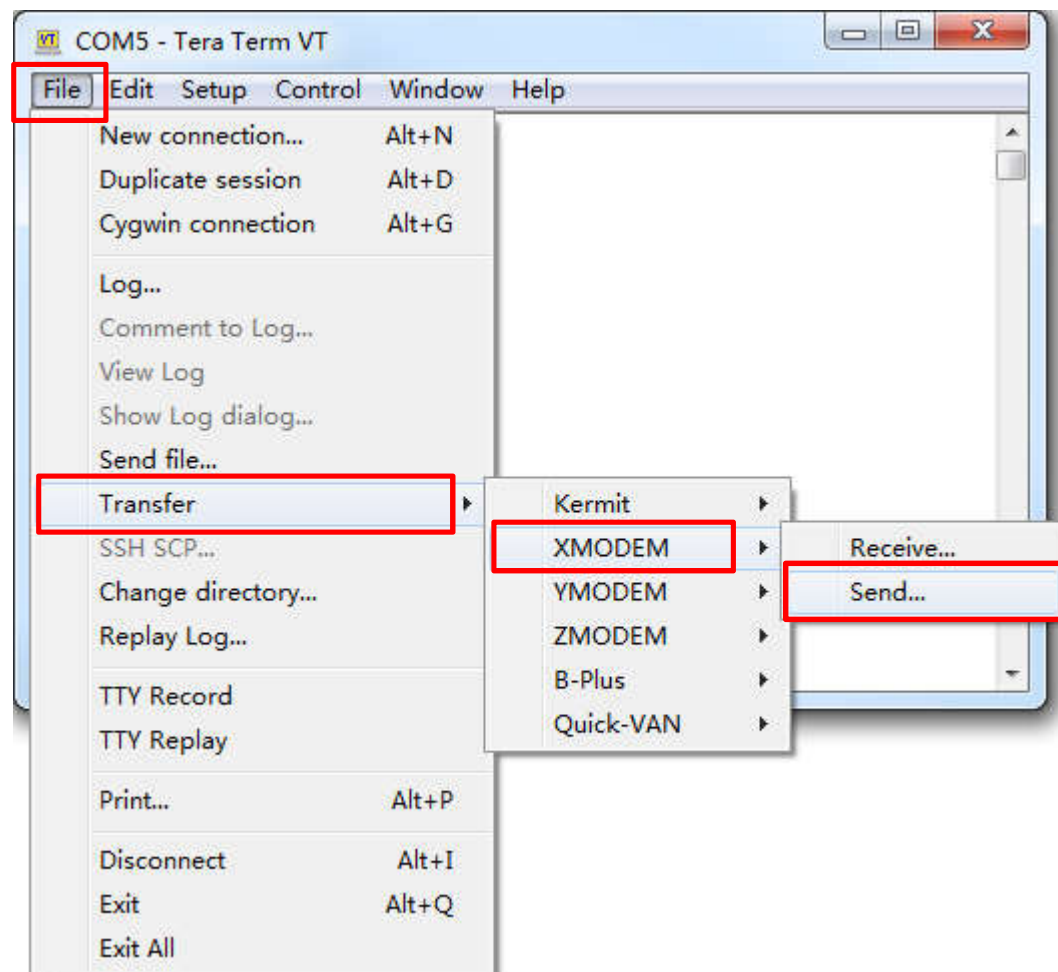
◆ Wait the erasing operation done.



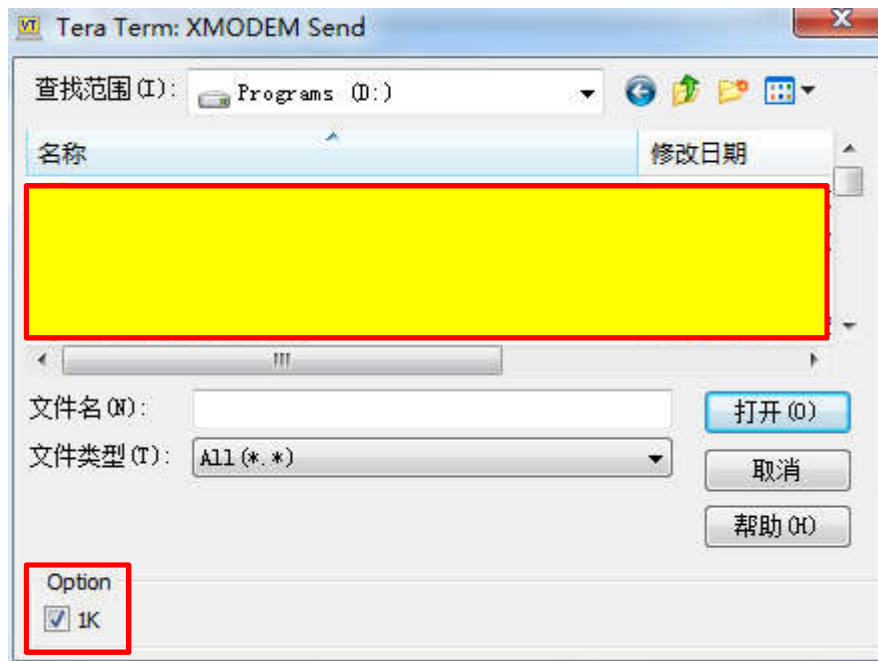
◆Done.

Note: Option 2 Update Bootloader is not open to end user, so don't choose it, or the bootloader might be lost. If so, the rig is dead.

## Step 5 download firmware:



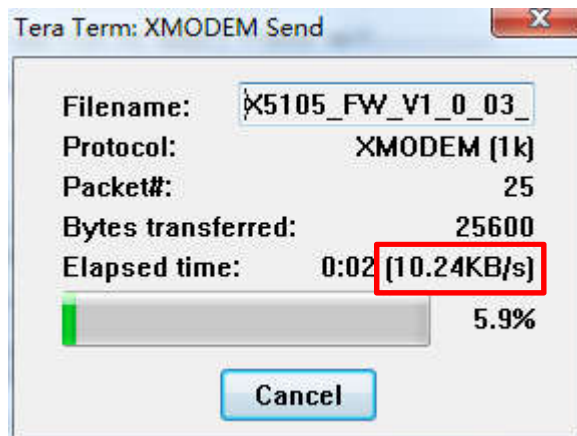
◆ Click *File* → *Transfer* → *XMODEM* → *Send...*



- ◆ Check **1K checkbox**.
- ◆ Browse and select the firmware file.

Note: Please ignore all the Chinese characters on the above dialog. Because I am using a Chinese version windows operating system so there should be some Chinese characters on it. If you are using an English version windows operating system it should be all in English I suppose☺.

### Step 6 wait the downloading finish:



- ◆ Waiting...
- ◆ Finished and enjoy.

Note:

- ◆ If you forgot to checking the 1K checkbox, the speed will drop to about 4KB/s instead of 9~10KB/s. So better keeping eyes on it.
- ◆ Transfer Error(s) may occur during downloading process. If the downloading process does not finish correctly, just cut off the power supply to rig and re-power it and do the procedure again from step 1.