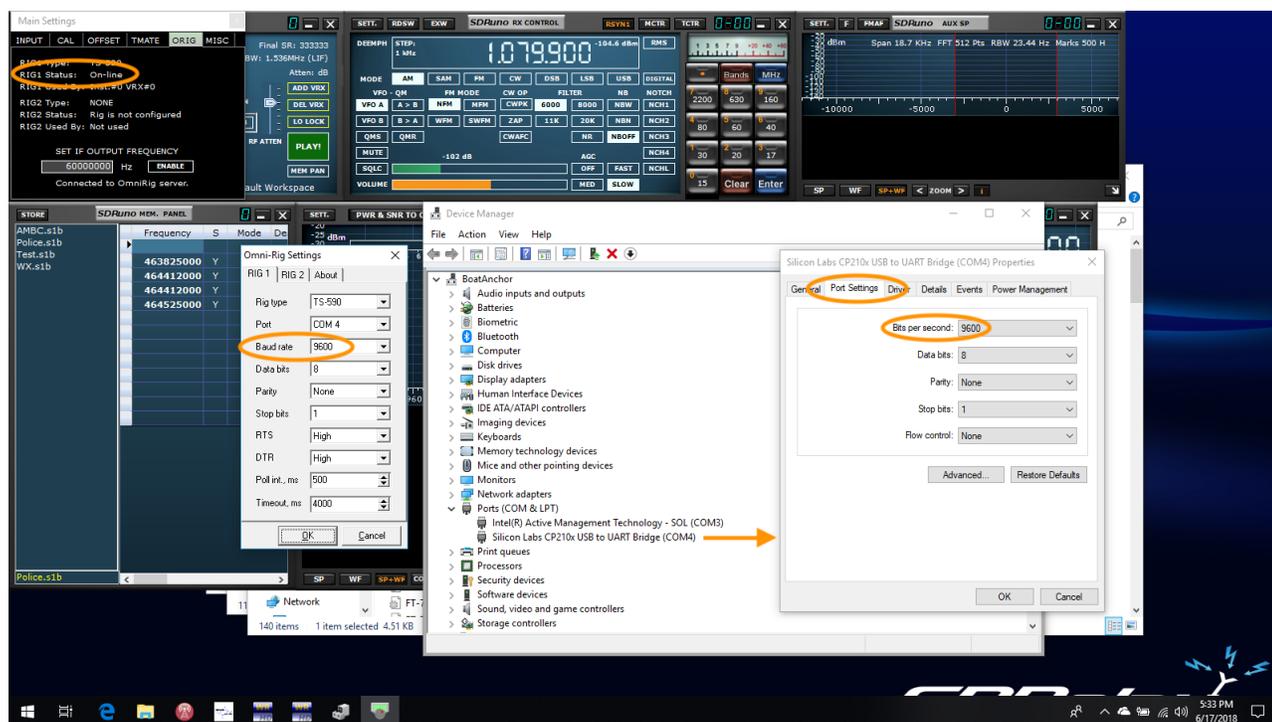


## Communication Issues between OmniRig and Kenwood TS-590SG

We have set up a number of panadapters using the Kenwood TS-590SG. Usually there are no issues and things run smoothly using the default parameters in the Kenwood itself and in OmniRig. However, a number of customers have reported issues, with no response to commands from SDRuno, or slow response from the Kenwood. This remained a mystery until we recently acquired a TS-590SG which displayed these same issues.

The following is the result of extensive testing using the TS-590SG, OmniRig and both SDRuno and HDSDR. The solution is to set the baud rate for both the Serial and USB ports on the Kenwood to 9600 bps. Set this same data rate in both OmniRig and the Port settings for the USB to serial adapter.



### Detailed Instructions

1. Go to Menu 86 on the TS-590SG and set the baud rate to 9600. Exit the menu and power off the TS-590SG.
2. Start OmniRig and set the Baud rate to 9600. Click on "OK."
3. Open Device Manager. Locate the Silicon Labs entry under COM ports. Right click and select "properties." Select the Port Settings tab and select 9600 from the "bits per second" dropdown. Click "OK."
4. Turn on the Kenwood.
5. Start SDRuno. Open the SETTINGS window from the SDRuno Main panel. Select the "ORIG" tab. Rig1 should now show TS-590 and the status should be "online."



## Further Comments

These tests were conducted using the USB port on the Kenwood, we are not aware of any issues using the serial interface.

We do not know why these steps are necessary for some Kenwoods and not others.

We tried the different versions of the Silicon Labs driver (6.7.5.1893, 6.7.6.2150, 10.1.3.2130) with no difference in the results.

The TS-590SG we had was firmware 1.01 (Menu 00). We updated to the latest Kenwood firmware, 1.04, with no change in the results.

The other Kenwoods we used previously all worked successfully at the default USB baud rate of 115,200.

If we hear from Kenwood with any further updates we will pass them on. However, this workaround is performing well in our testing.

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