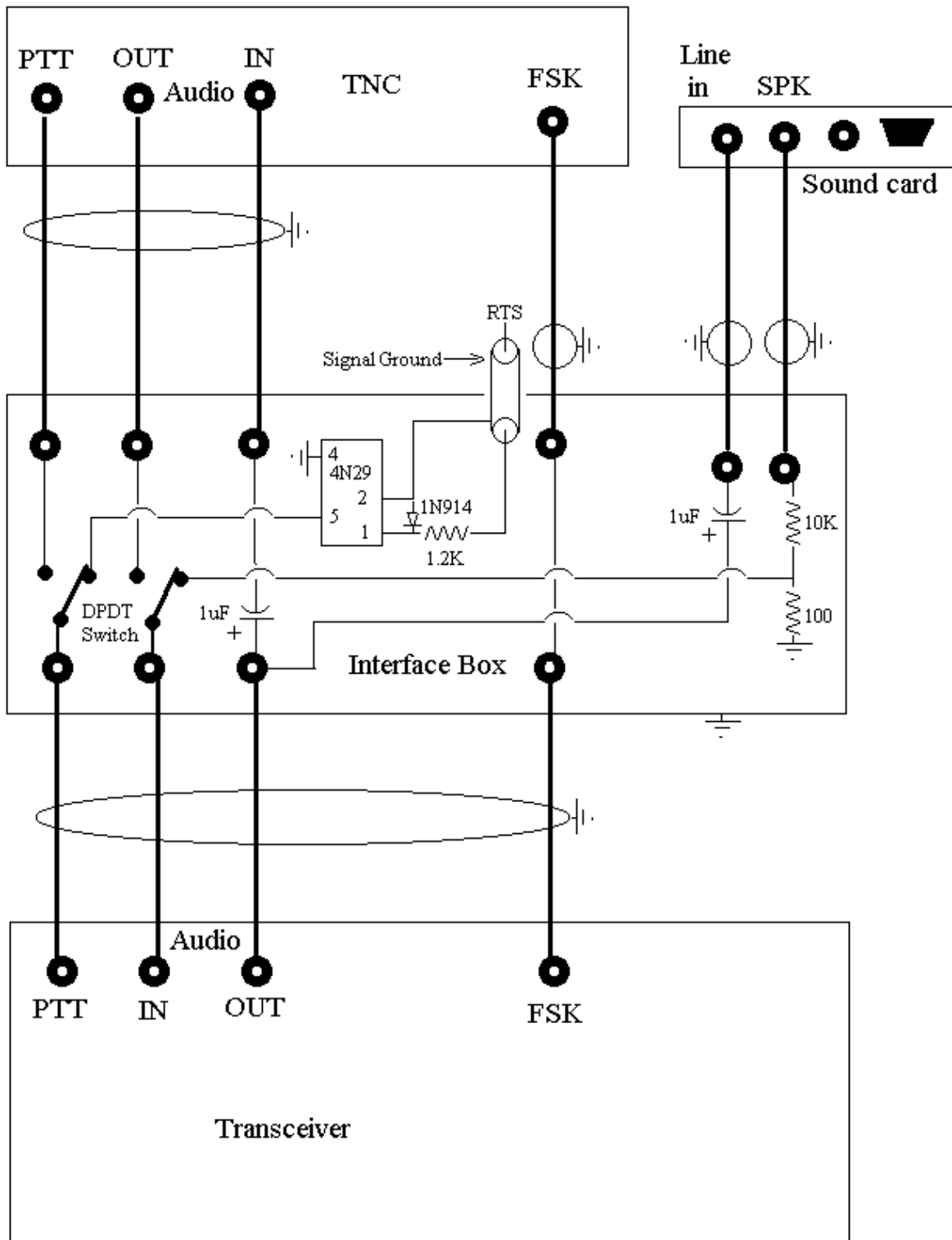


## TNC and PSK-31 Interface

I have had lots of e-mail about using a TNC and a PSK-31 Computer sound card interface on the same RS-232 comport and an easy way to switch between them so here it is! First of all I did not list pin numbers for the TNC as there are different type connectors between different TNC makes and models. Second the interface used here is the simple resistor type using 10 K ohm and 100 ohm resistors. You can add audio transformers instead if you like. The switch is a DPDT type to switch the MIC audio between the TNC and sound card and the PTT control between the TNC and the sound card keying circuit. I used a 4N33 but you can use a different type if you like. You can search the web for different designs. I am sure you noticed that the speaker or audio output from your transceiver is connected to two 1 uF capacitors. This does two important things. It saves having a second switch or buying an expensive TPDT (Triple Pole Double Throw) Switch and allows you to have sound card software running at the same time as your TNC program so that you have a very nice tuning display available to use instead of the TNC tuning display that can be very poor on some of them. The RS-232 cable can be made up so that a 3-conductor cable with TX data, RX, data, and shield of the cable for Signal ground between the computer and TNC is used. You will need to use XON/XOFF for handshaking on the TNC and your terminal program. This allows RTS and Signal ground with a two conductor cable (single wire with shield) be used for the Sound card keying circuit. If you also need DTR simply use the same type cable as the computer to TNC cable. Radio Shack sells two conductor with shield audio cable with 1/8 stereo plugs on each end. This cable will work fine and you can also buy the matching female socket that can be used in your DB 25 and DB 9 computer plugs and the box containing the switch and resistors (or other matching devices). These cables are 6 feet long and that should be plenty. Hope this helps! 73... Scott.



Most modern Transceivers have an Accessory jack that has PTT, Audio in (MIC), Audio out, and FSK in on the rear panel. FSK is optional but is shown if you would like to use

