

Connection Details

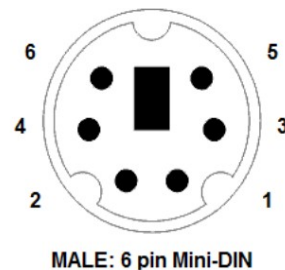
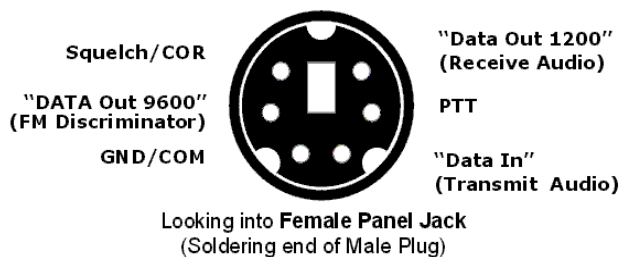
There are so many different radio connection schemes it would be hard to document them all. Here are a few of the most popular in a chart. The ARA-1 and ARA-1+ come wire to a DB25 female wired as the DMK/URI.

ARA-1	ARA-1+	DMK-URI – DB25 Female ARA end	DIN 6 pin Male to Radio	Alinco/TYT DB9 Male to Radio
Ground - Black	Ground - Black	19,20	2	5
Audio in (RX) - Red	Audio in (RX) - Red	21	5	4
Audio out (TX) - White	Audio out (TX) - White	22	1	9
COS - Yellow	COS - Yellow	8	6	1
PTT - Orange	PTT - Orange	1	3	7
N/A	CTCSS - Green	7	N/A	N/A

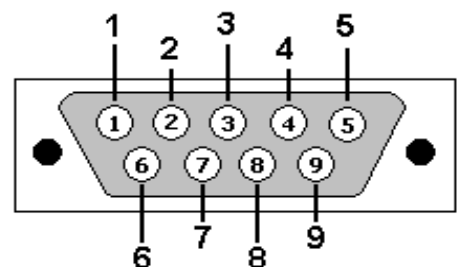
We generally wire to the 1200 baud labeled connections which are shown here and with no PRE or DE-emphasis allowing the radio to do that. If what you hear from the radio you are using to connect to your node sounds mushy and lacks highs you may need to enable PRE-emphasis. If what others hear when you speak sounds tinny or lacks lows you may need to enable DE-emphasis.

Users have the option of using a mating DB25 male wired as shown above for the DMK/URI or you can remove the DB25 and connect wires directly to your radio. The advantage of using the DB25 is that you would have compatibility between the DMK/URI and these boards in being able to switch between them.

For commercial radios, Motorola, etc. either use the DB25 Female to Male or remove the DB25 and wire directly to the radio.



Common 6 Pin DIN Radio Data Connector Yaesu, Kenwood, Icom



DB9 Male looking into the connector

Here is an excellent site for checking radio connections -

<http://packetradio.com/pdfzips/BUXmic-acc-wiring-index.pdf>