



The RF Connection
Specialist in RF Connectors and Coax
Celebrating our 33rd Year!
"Connecting you through the millennium."



Remember the old days when your station had a Shure[®] microphone on the desk?
The R.F. Connection is proud to announce a marriage of 2 great products to Amateur Radio:

**The R.F. Connection's "Mike-Link" and
Shure[®] Legendary Performance[™] Broadcast Headsets**

What is the Mike-Link?

- The Mike-Link is an impedance-matching device to match a low impedance headset microphone to higher impedances used by most amateur radio transmitters and transceivers.
- It also includes an optional active preamp to drive higher transmitter audio levels required by Icom transceivers. *The jumpers are set at the factory for the Icom rigs, but easy to change.*

What else does it do?

- The Mike-Link also provides an interface for the headset to accept mono or stereo audio receive output from most amateur radio receivers and transceivers.
- It also provides a switch to select either stereo or mono audio as well as a switch to select in-phase or reverse-phase of a mono audio source for greater listening comfort.
- Additionally, ferrite RF suppression chokes are used to reduce the dreaded "RF in the audio".
- A PTT button is provided along with a parallel jack for an external foot switch.

Is it useful for CW ops?

- Yes, the in-phase and reverse-phase switch provides two different audio "images" to reduce operator fatigue.
- The stereo / mono switch provides an immediate selection to mute the secondary receiver and route the primary receiver to both ears when digging through the DX.

Heck, I could build something as simple as this.....

- Yes, although the Mike-Link is here right now, affordable, and will allow you to enjoy your new SHURE[®] BRH440M headset the minute you plug it into the rig.
- If you really want to build one, a schematic is provided and PC Gerber files are available by request.

SPECIFICATIONS:

Microphone impedance: 125 to 150 ohms

Radio mic input impedance: 2.5k or 10k ohms or active amplification (1k nominal), jumper configurable

Frequency response: 30Hz to >15kHz, +/- 2dB relative to 1kHz

Earphone impedance: 100 to 600 ohms

Radio receive audio impedance: 4 to 32 ohms

PTT Switch: 32VDC, 100mA maximum (*please use and external relay for higher voltages*)

WIRING: *Two cables to the rig are needed, one for the mic / PTT and one for the earphones.*

Transmitter Audio and PTT: Mic = Tip, PTT = Ring, Ground = Sleeve, 1/8" (3.5MM) stereo jack

Receiver Headphone: Left Ear or Mono = Tip, Right Ear = Ring, Ground = Sleeve, 1/8" (3.5MM) stereo jack

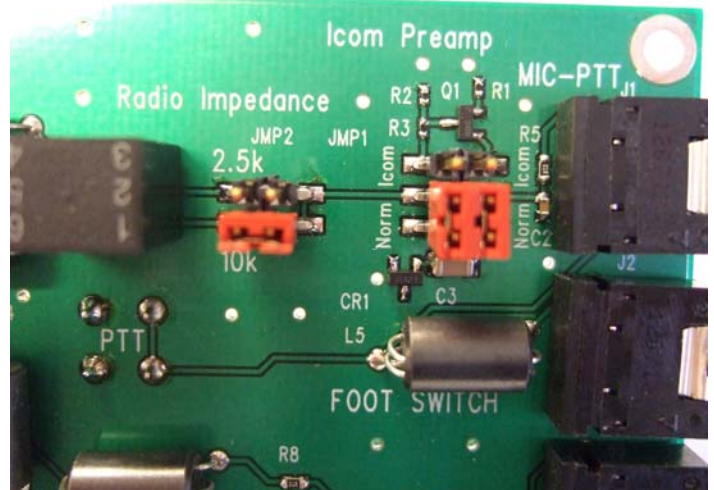
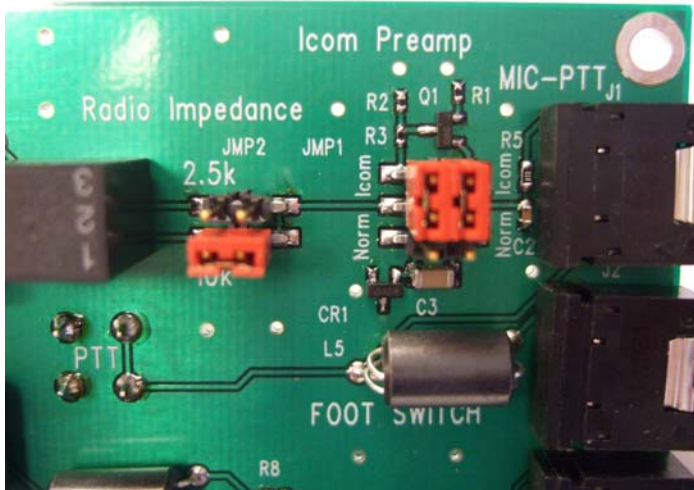
External Foot Switch: Hot = Tip, Ground = Sleeve, 1/8" (3.5MM) mono jack

NOTE: Use proper grounding techniques if you use two separate receivers to avoid ground loop hum in the mic audio.

How do I know which radio impedance setting to use? The 10k works the best for most rigs. Just be sure to use the "Norm" jumper setting to bypass the Icom preamp for non-Icom rigs.

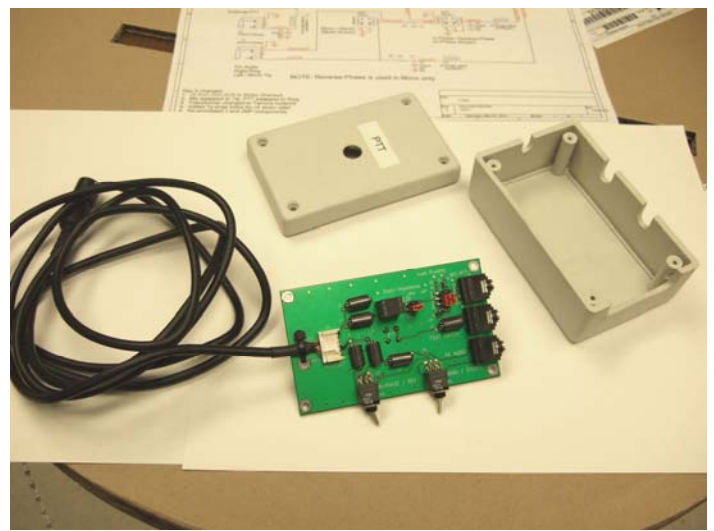
Icom jumper settings (default)

All other rigs' jumper settings



Using a second external receiver

Use a #1 Phillips to disassemble for jumper settings



Icom active preamp option

