Hooking up your mobile (AT-778UV) to digirig:

2 Solutions:

This article has 2 configurations that work with my AT-778UV and my digirig. Why 2? The first one is a simple cable. It works, but the trouble is you have to plug and unplug the mic constantly to change frequencies, power settings, etc. Also, when you change from voice to digital.

The second configuration is a box I keep my mic plugged into permanently. This way when I run Winlink on one node and want to switch to another I just pick up the mic and punch in the frequency. It also gave me a neat place to keep my splicing. If I could have a do-over I would go straight to the box and skip the cable.

To use the box you will still plug and unplug the speaker wire and the digirig wire you just permanently keep the mic jacked in. Note: During a QSO I was told the voice was weak till I unplugged the jack to the digirig.

Warning I am not an electrician so I bear no responsibility if you harm your equipment. This works perfectly for me and the configuration makes logical sense as you are only borrowing signals. You'll see what I mean later.

CABLE-ONLY SOLUTION

The cable configuration that works fine for my AT-778UV is very easy and straightforward. Just make sure you realize when they show the "Mic Connection Diagram" <u>front view it is not the front view of the cable.</u> It is the female side in front of the radio.
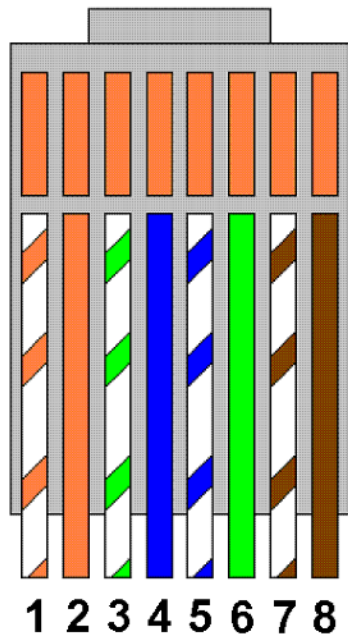
I am hoping you have the same color scheme as I did otherwise you will need to translate the colors. To make it easy. The CAT cable I used had the standard color scheme and the plug from the radio to the digirig.

Warning: As mentioned the AT778UV diagram is from the radio perspective this standard example is from the cable perspective so 8=1,7=2 and 6=3 that is all you need by the way.

I bought the following from Amazon, if you do the colors will match

Fancasee (2 Pack 6 ft) Replacement 3.5mm Male Plug to Bare Wire Open End TRRS 4 Pole Stereo 1/8" 3.5mm Plug Jack Connector Audio Cable for Headphone Headset Earphone Microphone Cable Repair

https://a.co/d/gFGTap9

DigiRig Jack

B◇G ◇ W◇ R
————————-—> Tip

Black=Ground
Green=PTT
White=Mic
Red=Speaker

Radio Side

Tip of the speaker jack
RJ45 Pin 3 Mic
RJ45 Pin 2 PTT
RJ45 Pin 1 Ground
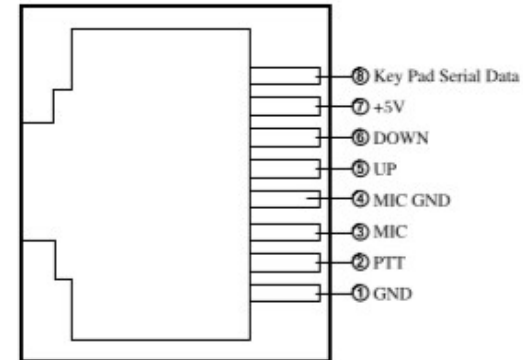
Connect Radio to DigiRig
Tip to red wire —— speaker
RJ45 Pin 3 (green*) to White —— Mic
RJ45 Pin 2 (brown and white*) to green —— PTT
RJ45 Pin 1 (brown*) to Black —— Ground
   * Standard RJ45 Colors/remember the orientation 8=1,7=2,6=3

MIC Connector Diagram(in the front view of connector)

⑧ Key Pad Serial Data
⑦ +5V
⑥ DOWN
⑤ UP
④ MIC GND
③ MIC
② PTT
① GND

BOX CONFIGURATION

To build the box you will need to review the "Cable-Only Solution" section.

I have a snapshot of the box, but not the inside it is a rat's nest and would not be of any value. I took a standard cable, opened the outside installation, exposed the 3 wires I needed then tapped them. I hope the figures are self-explanatory.
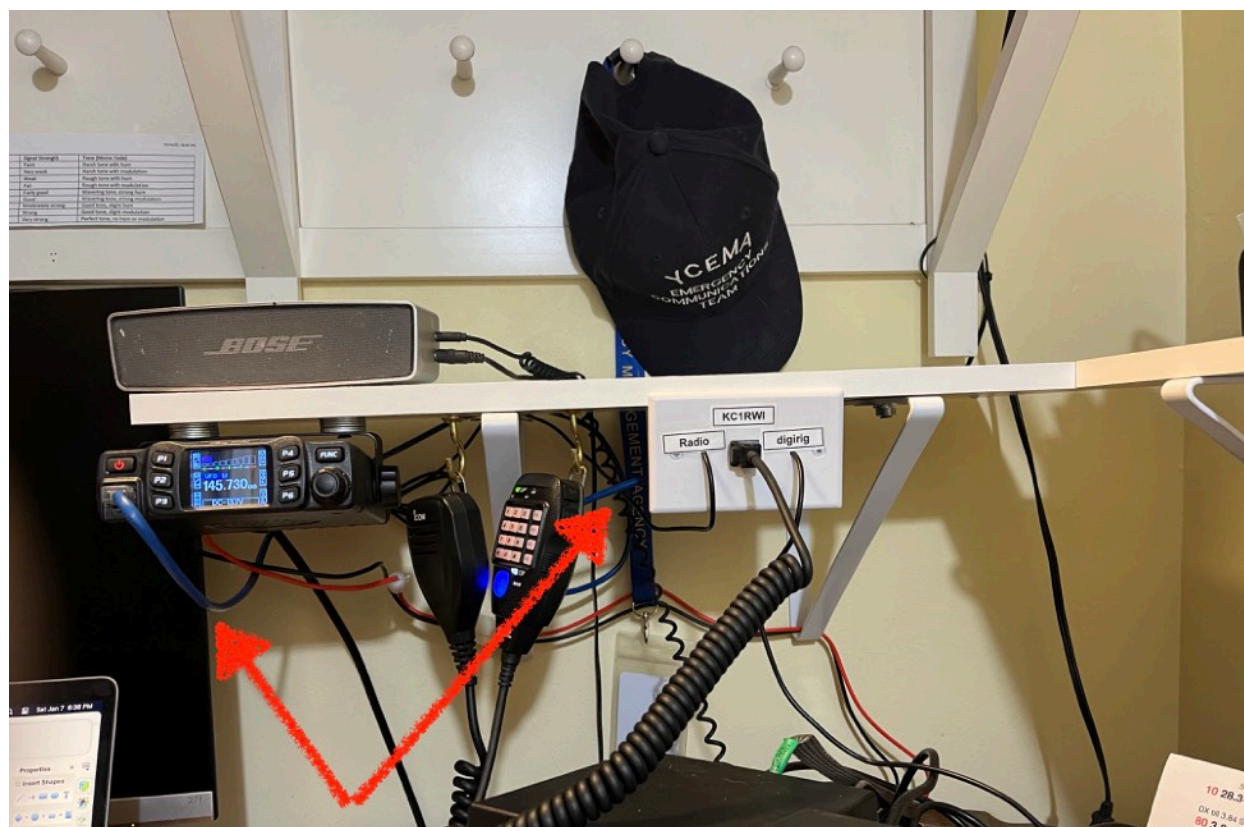
Easy to see the box is a standard electrical box. The plate has a female-to-female connector in the front. What is not easy to see is the CAT5 cable out of the back (right arrow). The blue cable stays plugged into the radio and mic in the box.
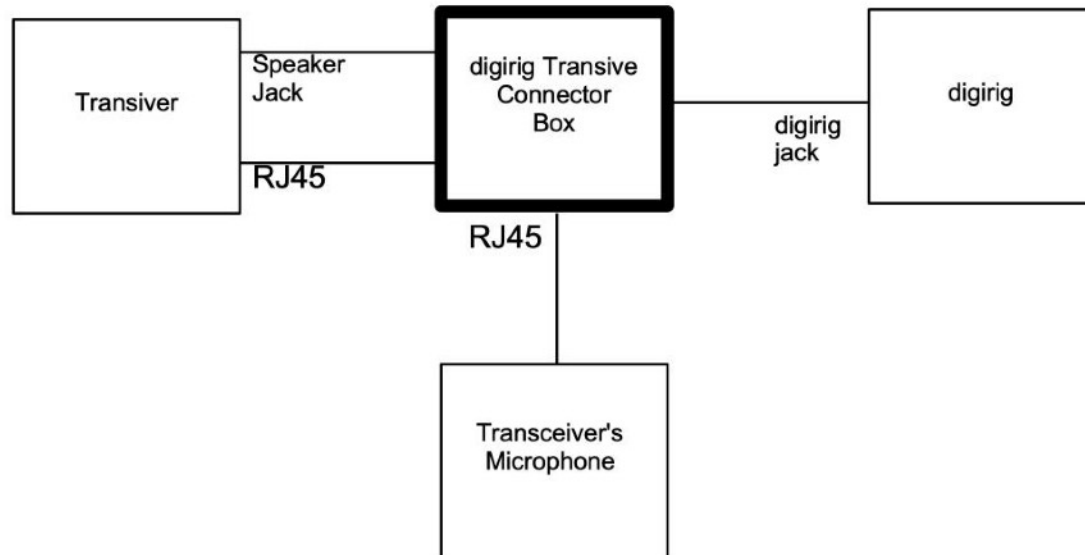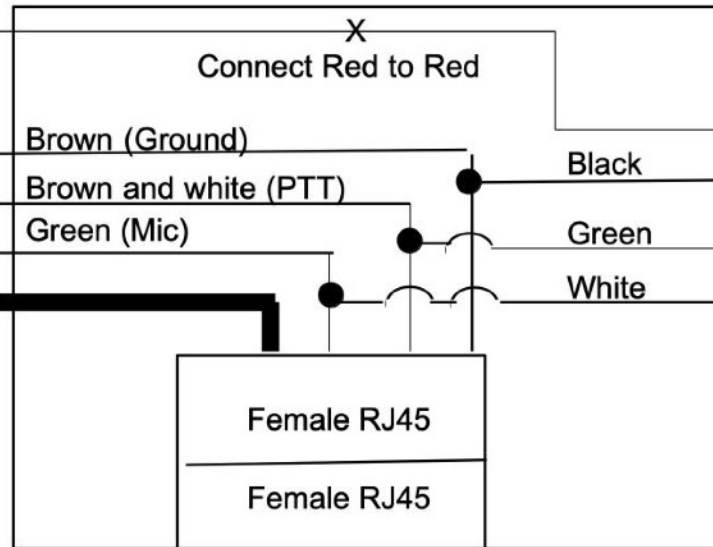
Figure 1

Orentation

Transiver

Speaker Jack

RJ45

digirig Transive Connector Box

digirig jack

digirig

RJ45

Transceiver's Microphone

Figure 2

digirig Transceiver Connector Box

Cable
connected to
 3.5mm jack
for radio
speaker.
Only the red
wire is used

X
Connect Red to Red

This
represents
nothing more
then a CAT5
cable with 2
male ends.
All you need
to do is
expose the 3
wires and
tap them.

Brown (Ground)

Brown and white (PTT)

Green (Mic)

Black

Green

White

Cable
connected to
 3.5mm jack
for digirig

The thick line at the
bottom represents the
remaining 5 wires that
are undisturbed.

Female RJ45

Female RJ45

Mic Jacks Here