

# Remote your Radio Station



Bridgerland Amateur Radio Club

February 11<sup>th</sup> 2017

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# What is CAT Control

## *“Computer Aided Transceiver”*



- Being able to control almost everything on your Radio via your computer.
  - For logging.
  - For digital communications.
  - Contesting logging, dupe checking, score keeping and report making.
  - Memory Storage.
  - Slow Scan TV.
  - Winmore.



# PICKING YOUR SOFTWARE



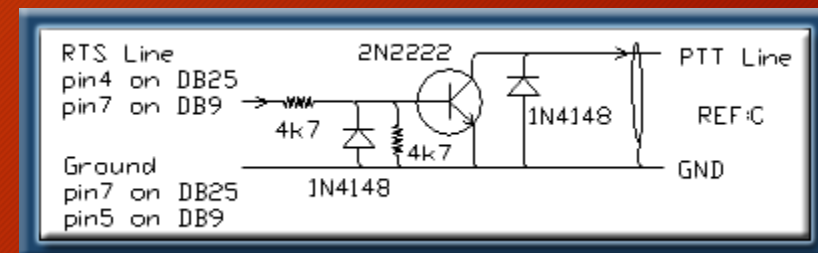
- CAT Software:
  - Ham Radio Deluxe
  - CAT software designed for your radio or radio brand
  - DXLABs
- Audio Connection:
  - The Above Programs usually have audio servers.
  - Other VOIP Programs.
    - Skype
    - Speakeasy
    - Others
- Contest Software:
  - N1NM
  - N3FJP
- Digital Programs:
  - Fldigi
  - DM-780 (HRD)
  - Digipan



# YOUR CONNECTIONS TO THE RADIO



- CAT cable this is where the computer talks to radio for data and control.
  - Rs232
  - Usb
  - Icom Ci-v usb
- Audio interface (signal link, Rig Blaster, RigExpert)
  - Speaker audio
  - Microphone audio
  - PTT
- CW (Morse Code) normally RS232
  - Straight Key input
  - Keyer input





# HOW TO REMOTE IT



- Once you have your station running with the CAT software you can proceed with setting up remote.
- Setup port forwarding or use something like. “team viewer or pc anywhere”
- Decide how you are doing the Audio Connection.
  - Some programs have VOIP built in.
  - You can use a separate system. (Skype)



# AT THE REMOTE COMPUTER



- Run your CAT software, Team Viewer, PC Anywhere or VNC and connect
  - Having Team Viewer, VNC, or PC Anywhere is advisable if you have a problem starting something on your remoted computer you need to reset or start.
- Then if you are using a third party Audio Connection run it connect to the computer at the Radio.
- Then usually you will use a Headset Boom Mic.



# ADVANCED FEATURES



- Starting your computer remotely.
- Running a Tuner remotely.
- Controlling Antenna Rotor.
- Remote Antenna Switch.
- Multiple Radio setup.
- Remote CW Keying.



# DEMO OF REMOTE CAT CONTROL



- Tyler's Kenwood TS-2000 with Kenwood's software using Skype Audio and Teamviewer.
- Ted's FT-5000DX with Yeasu FT-2000RC by Brend Koch DF3CB - Audio Skype.
- Bob's Yeasu FT-897 using Ham Radio Deluxe (HRD) - Audio Skype.