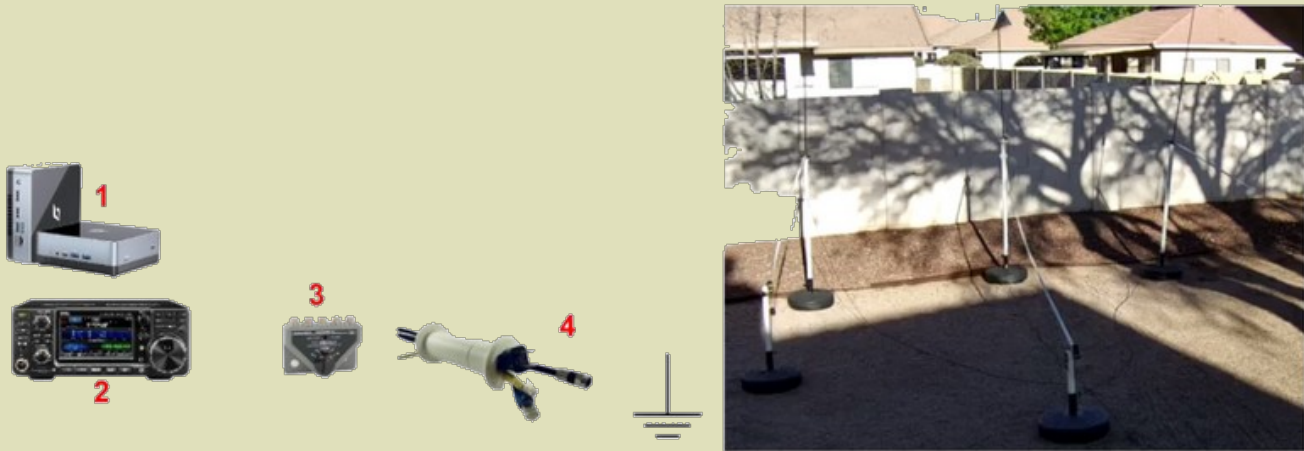


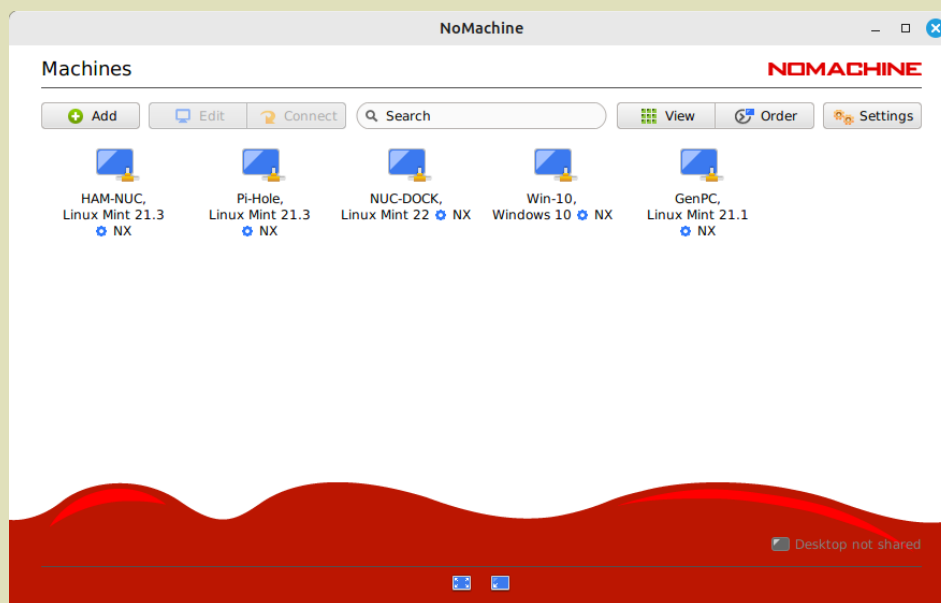
KD7YOX Rig Schematic



1. Computer

I run [Linux Mint](#) on all of my computers. It provides you with a desktop that's at least as good as Windows. Further, I have my Radio computer on a different PC than the one I use for normal computer tasks. You can now buy a full-fledged PC at Amazon for the price of a Raspberry Pi. As of this writing, I am using [this computer from Amazon](#). It uses WSJTx and Gridtracker2.

An important note. It is to your advantage to put specialized programs, like those for your radio, on a separate computer. If you do this, you can utilize the radio and still get work done on your main PC. You do not need a separate keyboard, mouse, or monitor. Your radio PC's only wires would be a power cable, the USB cable to the radio, and a network cable if you don't connect with WiFi. You can use it from your main computer with free software called [NoMachine](#). It will work with Window, Mac or Linux. It's easy to set up. Just download it to a computer and the computers will find each other. This is my setup. To operate another computer, just double-click its icon. **You should try this!**



2. Icom-7300

You need to run version 1.41 to get the presets on the radio for FT8 and WSJTx. Only 1 A/B USB cable connects it to the Radio Computer. There are lots of videos on the web on how to connect it.

3. Antenna Switch

I have 4 position Delta antenna switch from [DXEngineering](#) that connects one of 3 antennas to the radio.

Wall Pass-Thru and Ground.

The [wall pass-thru](#) conveys the 3 feed-lines from the antenna switch out to the ground rod and [lightning arrestors](#).



Antennas

The [Buddistick Pro](#) is an excellent antenna for FT8. I have a confirmed QSO with Reunion Island, 11,000 miles away. I chose it because I live in a HOA and it was not restricted because it is portable. I have 3 antennas because it facilitates switching between bands. I typically operate on 10m, 20m and 40m and they are tuned accordingly.

I have modified these antennas by replacing the whip on the 10m & 20m antennnnas with a [CHAMELEON ANTENNA CHA SS17](#) because the coil is not necessary for those bands and gives them a wider band range with the IC-7300's tuner. The 40m antenna is original because it needs the coil to work on that band.

I have replaced the elevated radial on all 3 with a [Tape Measure](#), only because the thin wire was hard to notice and my groundskeepers kept running into it. Electrically, it makes no difference. Use a [pipe clamp](#) to fasten the tape measure to its support post.
[See the antennas Live](#)

Replacing the Tripods

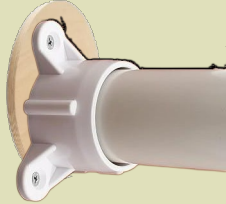
The [VersaHub](#) is the heart of this antenna. It makes it easy to manage. You just screw the whip onto the top and connect the feed-line and elevated radial. I wanted to replace the tripods with a movable mast that I could position anywhere in my backyard. A [patio umbrella base](#) was the perfect solution.



It will hold up to 5 gallons of water which is 40 pounds and more than sufficient. Slide a 5 foot piece of 1.5" PVC pipe into it and you've got your movable mast.

Attaching the VersaHub to the top of the mast

I purchased some [half inch thick wooden disks](#) and [PVC table caps](#) from Amazon.



Now, you just need to screw the table cap to one side of the wooden disk and the VersaHub to the other side. [See more detailed instructions.](#)

Here is a picture of the completed antenna.

