

HOW TO USE IC 7100 AND PI-STAR MMDVM HOTSPOT de W4EDN



Bewinner Assembled MMDVM Hotspot - Support DMR, DSTAR, P25 and System Fusion Communications - OLED Display Screen,SMA Detachable Antenna,Support 420-450MHz UHF and 144-146MHz VHF(Silver)

I bought the hotspot on Amazon for \$72 came in 3 days. The provided paperwork is for DMR and FUSION so I jumped in.

- 1: find a suitable power supply and cable, an old phone charger with micro USB works great. takes about 3 minutes to boot, Green light will blink.
- 2: Set up a pc to attach to the pi star wireless. Its SSID is pi-star and the password is raspberry.
- 3: After connecting to the Pi-Star you get this screen without all the activity.

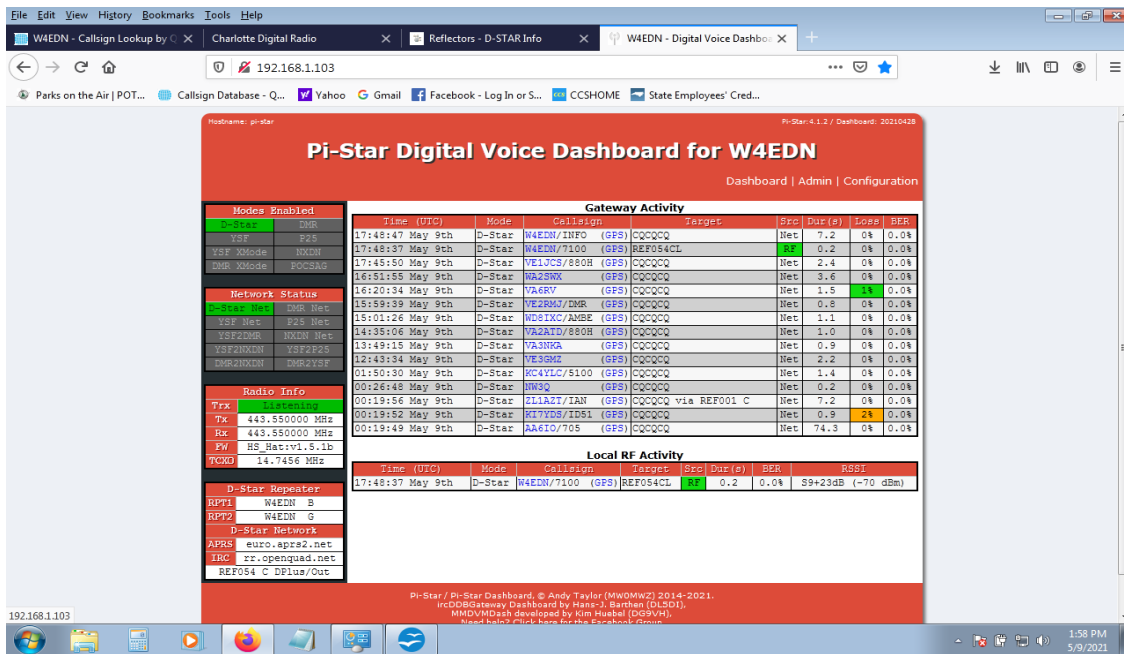


Figure1

Click on Configuration (upper right), get :

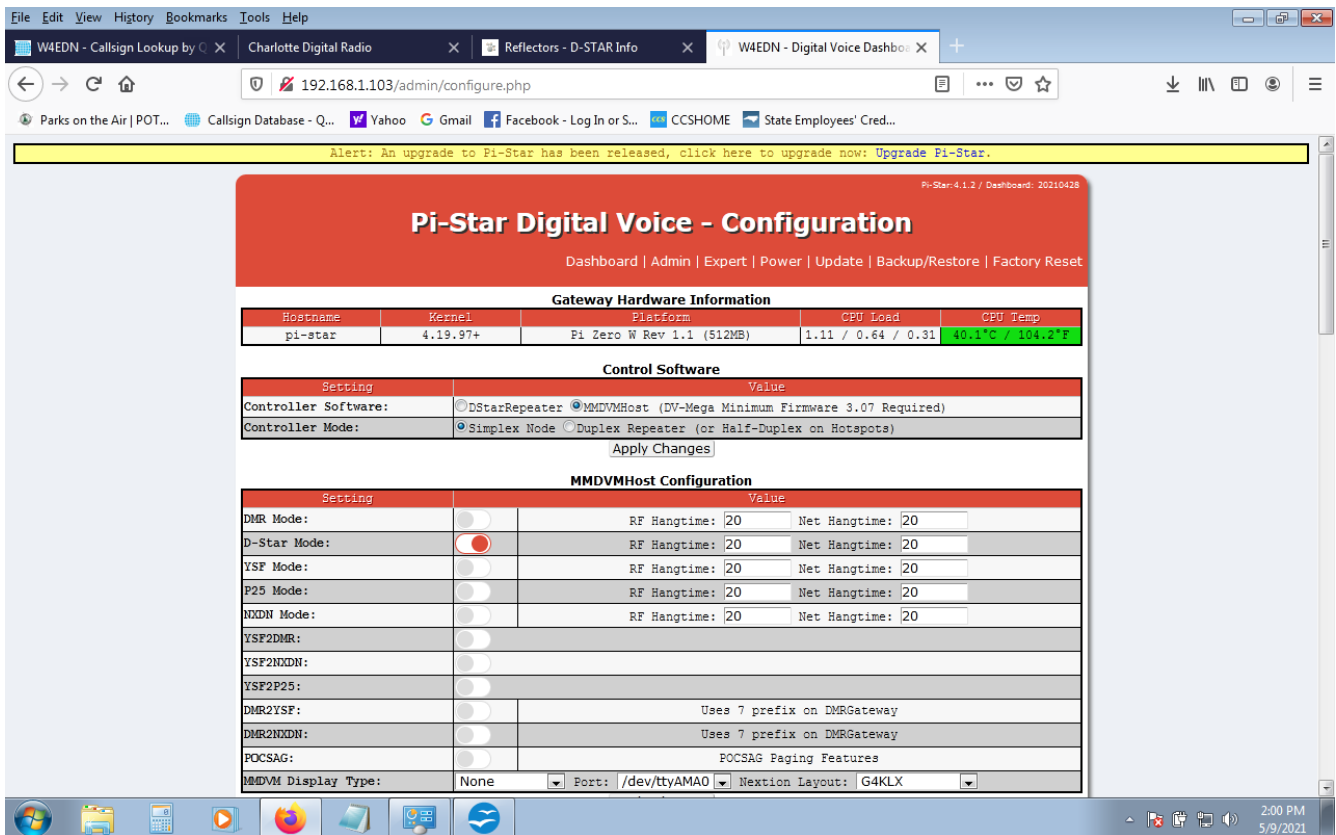


Figure 2

Scroll down o General Configuration, on the way I turned off all modes but dstar.

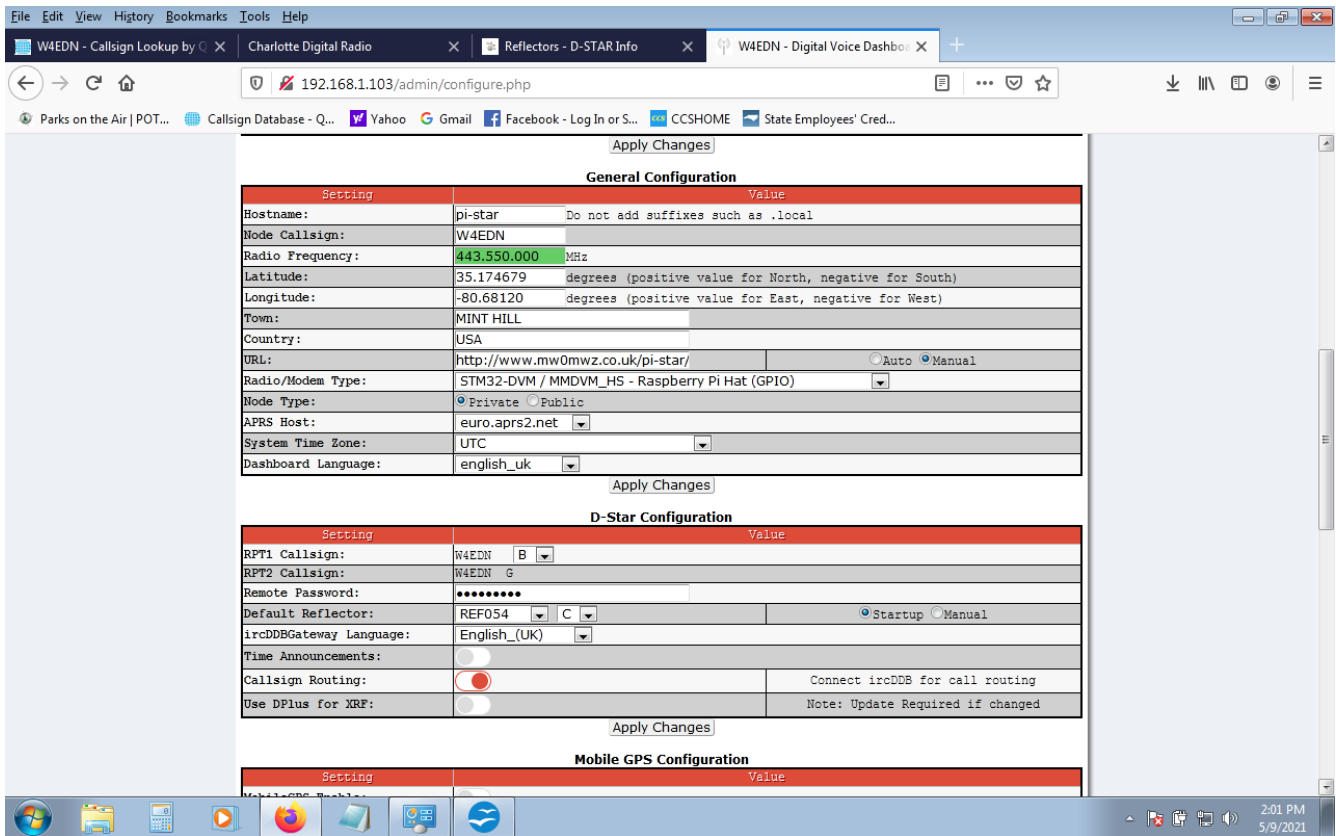


Figure 3

I put my callsign into the Node CALL SIGN field and set the frequency to one of my choice, and completed town, country, lat and long, I set Time Zone to UTC and in D-STAR Configuration set RPT1 mode (B for 70cm), default reflector (I use REF054C), turned off Time Announcements then go down to Wireless Configuration.

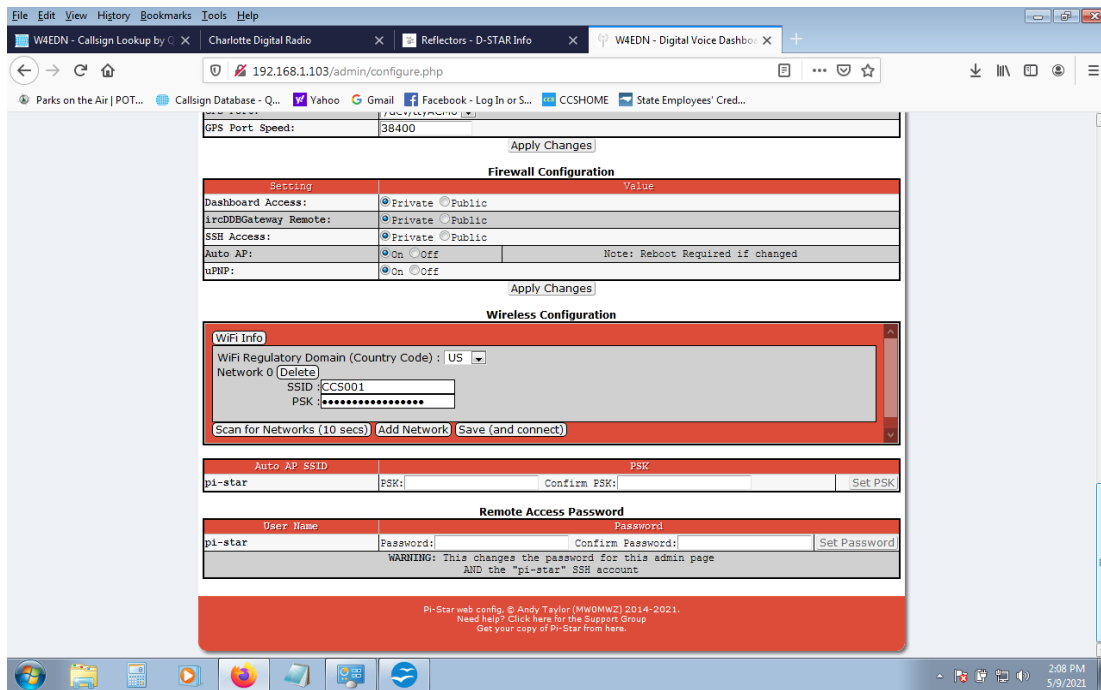


Figure 4

Input your SSID and password in the PSK field

here you can add a second network, say your phone hotspot when traveling,

I will do that when I need it.

Now click Save and connect.

You will not come back to the hotspot this way again since it will now connect to your wireless network.

Connect your pc to your wireless network

Send your browser to **http://pi-star**

you should see the dashboard like figure 1.

Here you can make other changes as necessary.

Now to set up the rig.

I used CS-7100 to add a Repeater for my hotspot.

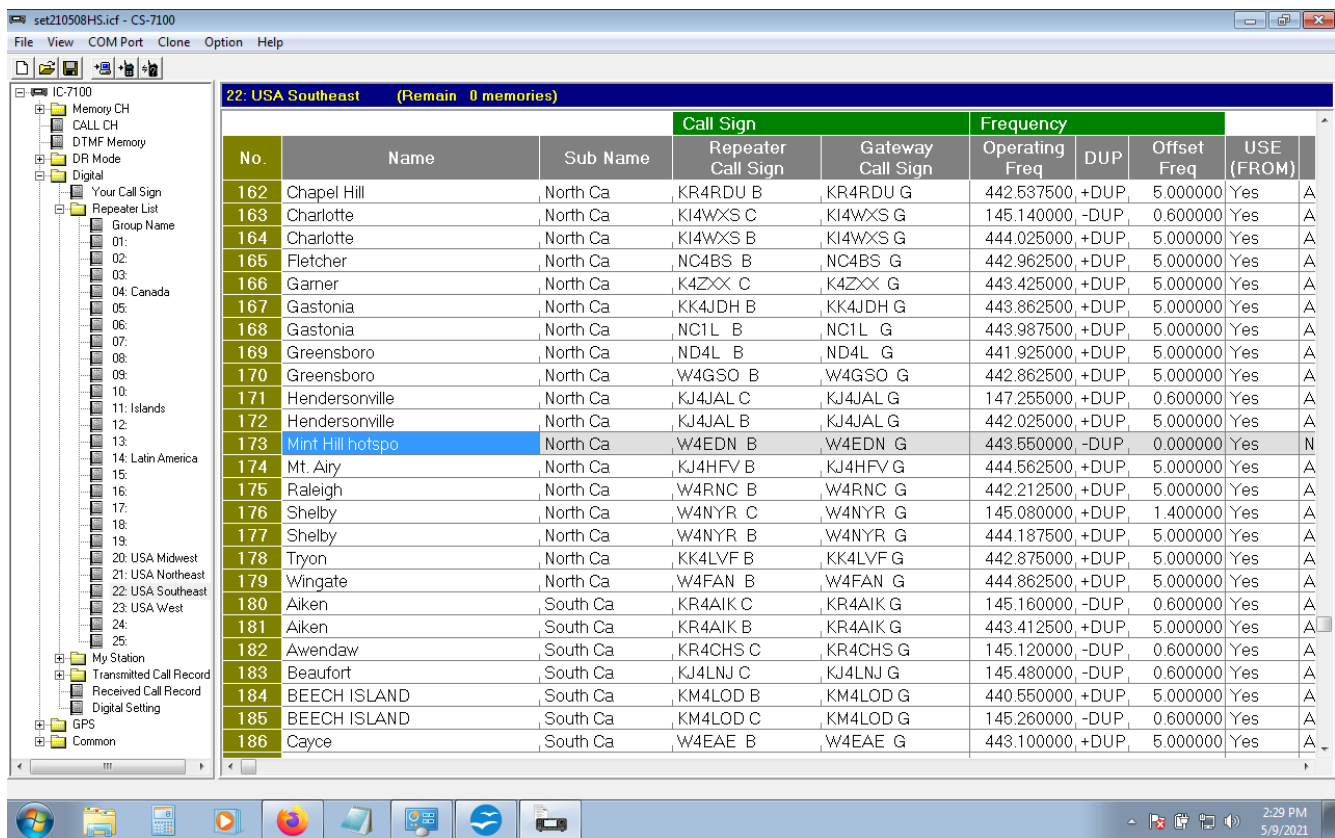


Figure 5

Here is the line I added, NOTE:

DUP is NOT SIMPLEX, BUT EITHER + OR – WITH OFFSET TO ZERO!

You need the RPTR Callsigns so your hotspot recognizes you and with SIMPLEX the 7100 will not let you put them in.

Now I can update the 7100 repeater list, go to DR mode, select my hotspot, change TO to CQCQCQ. And go for it. The hotspot responds to I and linked commands too: I just linked to XRF038C changing TO to XRF038CL and hitting the mic button. The hotspot replied in an English womans voice, “linked to X R F zero three eight charlie”

I changed TO back to CQCQCQ and I am ready to operate.

Notes:

DO NOT CHANGE THE ENTRY Controller Software to DSTAR REPEATER,

I COULD NOT GET THAT TO WORK, LEAVE AS MMDVMHost

THE Radio/Modem type is

STM32-DVM / MMDVM HS-Raspberry Pi Hat (GPIO)

ENJOY!!