

MMDVM pi-star HotSpot trouble shooting check list

Below are some common reasons why your MMDVM pi-star HotSpot might be misbehaving

- ✓ Can't log into the web interface, don't know the deices IP address, no problem ([Use this tool to find the IP](#)) or <http://pi-star.local/admin/configure.php>
- ✓ Mismatch color code, needs to match the code plug in the radio
- ✓ Mismatch frequencies, needs to match the code plug in the radio
- ✓ Wrong or missing network password
- ✓ Wrong mode selected (DMR) (D-Star) etc
- ✓ Simplex / Duplex setting, needs to match the code plug in the radio
- ✓ If you're using duplex change to simplex and try that
- ✓ Missing or incorrect DMR User ID 7 digits max
- ✓ Wrong Radio Modem Type selected (STM32 DVM MMDVM) the most common.To find your modem type use this SSH command (sudo pistar-findmodem)
- ✓ Test your server connection jitter use this SSH command (sudo pistar-jittertest BM)
- ✓ Set display port to "modem" check the manual and select the correct modem type
- ✓ Missing or wrong Call sign
- ✓ DMR network Talkgroups need to match Talkgroups in the radio TGIF / BrandMeister etc code plug issues
- ✓ Network passwords, log into your BM acct. and reset the HotSpot password not your acct login, two separate things. Same for TGIF
- ✓ Corrupt SD card, bad image, replace with higher performance (Very common if you keep unplugging the device)
- ✓ You're running an old version of pi-star, upgrade to the latest or re-image the SD card to a newer version
- ✓ Poor or no internet connection use LAN ([Buy a USB mini to LAN Adaptor](#))
- ✓ If you're using an iPhone tether use simple SSID and simple passkey no fancy characters. Turn on Maximize Compatibility, use a simple name and password (no spaces or weird characters).
- ✓ Crowded WiFi ch local interference use LAN ([Buy a USB mini to LAN Adaptor](#))
- ✓ Your WiFi has been compromised and you have leaches draining your bandwidth, secure your home network
- ✓ Clear the Cache Memory of the browser you're using
- ✓ Too close to the HotSpot over driving it / too much power (use the lowest setting you have)
- ✓ Inadequate voltage / bad power supply

- ✓ Relocate the HotSpot away from RFI sources
- ✓ High BER HotSpot RX / TX offset calibration is off ([Use this tool to fix it](#))
- ✓ The pi board is too hot, add a fan, remove it from direct sunlight
- ✓ HotSpot will not recognize the radio no matter what try setting **TXO / RXO to -475**
- ✓ Node type set to public, if so select private or add a DMR User Access List try that
- ✓ Incorrect date and time, set the appropriate time zone and offset UTC
- ✓ Wrong or missing call sign data in your gateway activity, perform an "Update" leave hotspot turned on auto downloads happen nightly.
- ✓ Try changing HotSpot frequencies
- ✓ The device you're attempting to access the dashboard is on a different network
- ✓ The device is logged into the "Guest Network" isolated from the primary no dash access
- ✓ The IP address was changed, use an IP scanner or log into your router to find the new one or use an IP scanner like this one to find the new IP
- ✓ You've changed the "Host Name" from pi-star to something else, change it back
- ✓ Try a factory reset, bring the whole thing back to square one and slowly re-configure the device with just the basics at first see if you can get it back up and running
- ✓ Auto AP is used for the initial configuration of Pi-Star, including adding the name and password for your actual WiFi network 192.168.50.1 is the IP address for that
- ✓ Auto AP, which connects your computer directly to your Pi-Star or use <http://pi-star.local/admin/configure.php>
- ✓ HotSpot on a private network (not connected to your actual WiFi network).
- ✓ [Check your routers NAT settings](#) and check the UPnP option, also look at the routers security setting like MAC filters or limited IP address assignments

[Playing With Pi-Star Notes](#)

Email me [KC5DJR](#) for help

I need your help!

If you have a suggestion for more items to be added to this checklist please contact me. The goal is to help anyone who may be having issues with their pi-star MMDVM device. These little devices are supper picky and have zero tolerance for typos and can be very frustrating to setup.

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