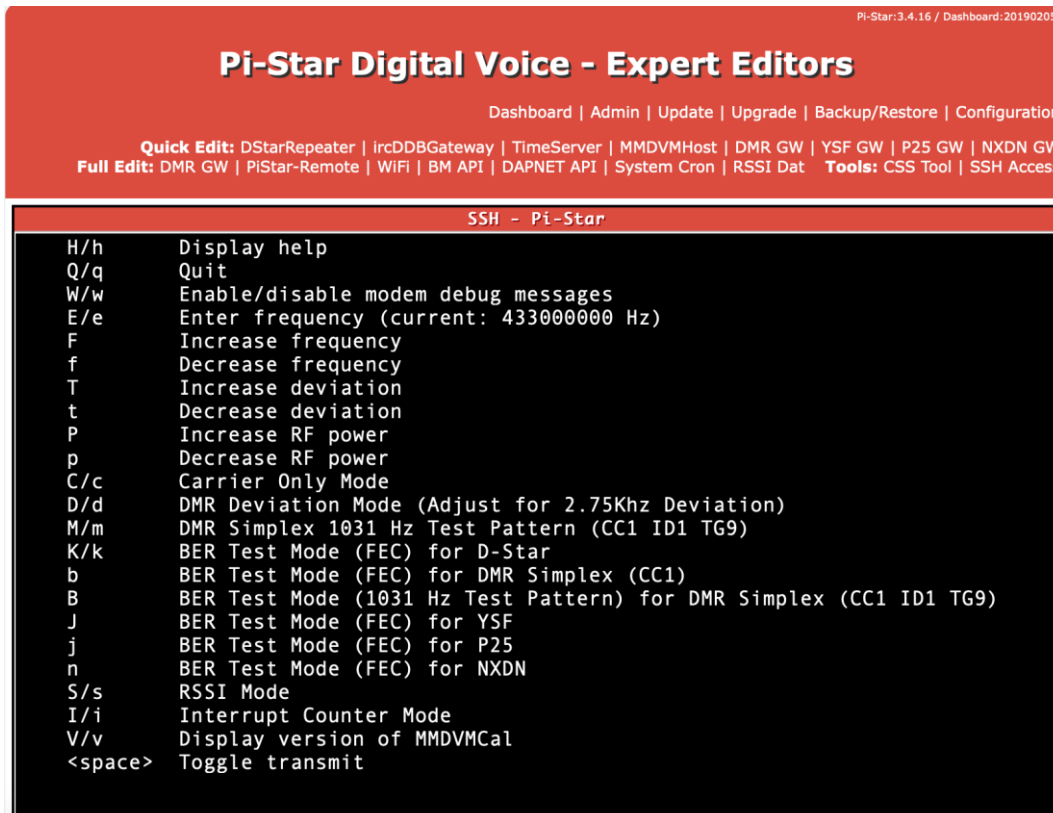


Using MMDVMCal

NOTE: MMDVMCal will test Tx/Rx on ZUMspot boards and the MMDVM-Pi boards. The ZUM AMBE Server board is not supported.

- Turn on a radio and set it to 433.000 MHz and set it to analog mode.
 - If you want to test VHF (for ZUMspot Dual Band only) try using 145.615MHZ
- Boot up pi-star
- Go to *Configuration -> Expert -> SSH Access*
- Login to pi-star
- Type in the following command: *sudo pistar-mmdvmcal*



- You will see this menu
- Press the spacebar on your keyboard to do the transmit test
- The red PTT LED should turn on. You should hear a tone on the radio. This shows that the transmit function of the board is working
- Press the spacebar to stop the transmit test.
- Press the “s” key on your keyboard for the RSSI test (RX test)
 - RSSI test will not work on MMDVM-Pi board

- Press the PTT button on the radio.
- You should see the RSSI drop to around 47-48. This shows that the receive function of the board is working.

```

Pi-Star:3.4.16 / Dashboard:20190205

Pi-Star Digital Voice - Expert Editors
Dashboard | Admin | Update | Upgrade | Backup/Restore | Configuration
Quick Edit: DStarRepeater | ircDDBGateway | TimeServer | MMDVMHost | DMR GW | YSF GW | P25 GW | NXDN GW
Full Edit: DMR GW | PiStar-Remote | WiFi | BM API | DAPNET API | System Cron | RSSI Dat Tools: CSS Tool | SSH Access

SSH - Pi-Star
K/k BER Test Mode (FEC) for D-Star
b BER Test Mode (FEC) for DMR Simplex (CC1)
B BER Test Mode (1031 Hz Test Pattern) for DMR Simplex (CC1 ID1 TG9)
J BER Test Mode (FEC) for YSF
j BER Test Mode (FEC) for P25
n BER Test Mode (FEC) for NXDN
S/s RSSI Mode
I/i Interrupt Counter Mode
V/v Display version of MMDVMCal
<space> Toggle transmit
Set transmitter ON
Set transmitter OFF
RSSI Mode
RSSI: max: 101, min: 95, ave: 97
RSSI: max: 106, min: 90, ave: 99
RSSI: max: 112, min: 96, ave: 101
RSSI: max: 106, min: 47, ave: 56
RSSI: max: 47, min: 47, ave: 47
RSSI: max: 47, min: 47, ave: 47
    
```

- Press the “q” key on your keyboard to exit out of MMDVMCal.