DE N5BOC

MMDVM DUPLEX setup instructions:

Before powering the PI, please ensure the antennas are attached!

The antennas should only be finger tight.   And a lose finger tight at that.   Since the SMA connectors are not braced by protruding through a metal case as in the typical use case, they can easily be twisted off of the PCB.

Pi-Star Configuration:

Under CONTROL SOFTWARE set the Controller Mode to Duplex Repeater

Under GENERAL CONFIGURATION select the MMDVM_HS_Dual_Hat

Also under GENERAL CONFIGURATION set the RX and TX frequencies to have a 5 MHz offset just like any normal UHF repeater.

All other settings are the same as a simplex MMDVM_HS_HAT

Make sure your code plug implements the same 5MHz offset. In the example above you can see that the receive is set to 434 MHz and transmit is set to 439 MHz. Of course the radio setup must be flipped from this.   Here is an example from my code plug for TG3148

Set your radio up like this and you should be enjoying your MMDVM DUPLEX hotspot right away.

Channels Information

Digital/Analog Data

Field	Value
Channel Mode	Digital
Band Width	12.5kHz
Scan List	None
Squelch	Normal
RX Ref Frequency	Low
TX Ref Frequency	Low
TOT[s]	555
TOT Rekey Delay[s]	0
Power	Low

Field	Value
Channel Name	D-TG3148
RX Frequency(MHz)	439.00000
TX Frequency(MHz)	434.00000
Admit Criteria	Always
Auto Scan	☐
Rx Only	☐
Lone Worker	☐
VOX	☐
Allow Talkaround	☐
Send GPS Info	☐
Receive GPS Info	☐

Digital Data

Field	Value
Private Call Confirmed	☐
Emergency Alarm Ack	☐
Data Call Confirmed	☐
Compressed UDP Data Header	☐
Emergency System	None
Contact Name	TG3148
Group List	Dual
Color Code	1
Repeater Slot	2
Privacy	None
Privacy No.	1
GPS System	None

Analog Data

Field	Value
CTCSS/DCS Dec	None
QT Reverse	180
Rx Signaling System	Off
CTCSS/DCS Enc	None
Tx Signaling System	Off
Reverse Burst/Turn-off Code	☑
Display PTT ID	☐

Decode 1 ☐ Decode 5 ☐
Decode 2 ☐ Decode 6 ☐
Decode 3 ☐ Decode 7 ☐
Decode 4 ☐ Decode 8 ☐

21 of 25 |<-   <<-   ->>   ->| Add   Delete

I hope you enjoy your new MMDVmodem
73's   David