

MMDVM (Multi-Mode Digital Voice Modem) Manual

When you first time to use mmdvm hotspot, it will not work and display nothing. You need to set for OLED, ttyAMA0,G4KLX at MMDVM dispaly type and apply changes. Then set for STM32-DVM/MMDVM_HS-Raspberry Pi Hat(GPIO) at modem type and apply changes. OLED will display after these setting. More detail setting, please do as this user guide.



How to set hotspot to Simplex mode and work.

Use the otg port, Connect to Internet. Then Goto <http://pi-star>, username: pi-star, password: raspberry

Gateway Hardware Information				
Hostname	Kernel	Platform	CPU Load	CPU Temp
pi-star	4.9.35+	Pi Zero W Rev 1.1 (512MB)	2.54 / 1.13 / 0.44	40.6°C / 105.1°F

Setting	Value
Controller Software:	<input type="radio"/> DStarRepeater <input checked="" type="radio"/> MMDVMHost (DV-Mega Minimum Firmware 3.07 Required)
Controller Mode:	<input checked="" type="radio"/> Simplex Node <input type="radio"/> Duplex Repeater (or Half-Duplex on Hotspots)

MMDVMHost Configuration		
Setting	Value	
DMR Mode:	<input checked="" type="checkbox"/>	RF Hangtime: 20 Net Hangtime: 20
D-Star Mode:	<input type="checkbox"/>	RF Hangtime: 20 Net Hangtime: 20
YSF Mode:	<input type="checkbox"/>	<input type="checkbox"/> RF Hangtime: 20 Net Hangtime: 20
P25 Mode:	<input type="checkbox"/>	RF Hangtime: 20 Net Hangtime: 20
NXDN Mode:	<input type="checkbox"/>	RF Hangtime: 20 Net Hangtime: 20
YSF2DMR:	<input type="checkbox"/>	
YSF2NXDN:	<input type="checkbox"/>	
YSF2P25:	<input type="checkbox"/>	
DMR2YSF:	<input type="checkbox"/>	Uses 7 prefix on DMRGateway
DMR2NXDN:	<input type="checkbox"/>	Uses 7 prefix on DMRGateway
POCSAG:	POCSAG Paging Features	
MMDVM Display Type:	<input checked="" type="checkbox"/> OLED	Port: /dev/ttyAMA0 <input checked="" type="checkbox"/> Nextron Layout: G4KLX <input type="checkbox"/>
Apply Changes		
General Configuration		
Setting	Value	
Hostname:	pi-star	Do not add suffixes such as .local
Node Callsign:	433550.000	step4: your call sign
CCS7/DMR ID:	433550.000	your dmr id
Radio Frequency:	433.550.000	MHz Just use 433.550.000 to test
Latitude:	50.00	degrees (positive value for North, negative for South)
Longitude:	-3.00	degrees (positive value for East, negative for West)
Town:	Town, LOCATOR	Set the same frequency in your dmr radio
Country:	Country	
URL:	http://www.mw0mwz.co.uk/pi-star/	<input type="radio"/> Auto <input checked="" type="radio"/> Manual
Radio/Modem Type:	STM32-DVM / MMDVM_HS - Raspberry Pi Hat (GPIO)	
Node Type:	<input checked="" type="radio"/> Private <input type="radio"/> Public	step5: select this option
System Time Zone:	Europe/London	
Dashboard Language:	english_uk <input type="checkbox"/>	
Apply Changes		

After all the setting, the mmdvm hotspot will work normally.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.